

DEPARTMENT OF BENGALI S.V.C
Teaching Plan 2022-23

July-December 2022
HONOURS

প্রথম সেমিস্টার সাম্মানিক

CC-1 বাংলা সাহিত্যের ইতিহাস : প্রাচীন ও মধ্যযুগ

চর্যাগীতি থেকে বৈষ্ণব পদাবলী ও তার প্রধান প্রধান কবি পর্যন্ত- S.M class-30

মঙ্গলকাব্য থেকে বাউলগান পর্যন্ত – U.G Class-30

CC-2 – ছন্দ ও অলংকার

ছন্দ- SD class-30

অলংকার SBM class-30

তৃতীয় সেমিস্টার সাম্মানিক

CC-5 বাংলা সাহিত্যের ইতিহাস (১৮০১-১৯৫০)

বাংলা গদ্যের উৎপত্তি ও বিকাশ- S.M Class-12

কবিতা- Sb.M Class-12

কথাসাহিত্য-Sb.M Class-12

নাটক- U.G Class-12

প্রবন্ধ- S.D class-12

CC-6 ভাষাতত্ত্ব

বাংলা ভাষার উৎস, ইতিহাস ও যুগবিভাগ; ধ্বনির উচ্চারণ স্থান। -U.G Class-20

ধ্বনির বর্ণীকরণ ও ধ্বনির পরিবর্তন; শব্দার্থ তত্ত্ব; সাধু-চলিত; বাংলা শব্দ ভাণ্ডার; বাক্যতত্ত্ব; বাংলা উপভাষা। - S.D

Class-40

CC-7 উনিশ শতকের কাব্য

বীরঙ্গনা কাব্য-S.M Class-30

সারদামঙ্গল-P.M Class-30

পঞ্চম সেমিস্টার সাম্মানিক

CC-11 – গল্প

গল্পগুচ্ছ- P.M Class-30

একালের গল্প- U.G Class-30

CC-12 প্রবন্ধ ও প্রাচ্য কাব্যতত্ত্ব

প্রবন্ধ সংকলন- S.D

Class-30

কাব্য জিজ্ঞাসা- S.M

Class-30

DSE-1 উনিশ শতকের বাংলা কাব্য ও প্রবন্ধ

উনিশ শতকের বাংলা আখ্যানকাব্য – S.M

Class-15

গীতিকবিতা- Sb.M

Class-15

উনিশ শতকের বাংলা প্রবন্ধ – S.D

Class-30

DSE-2 উনিশ শতকের বাংলা নাটক ও কথা সাহিত্য

উনিশ শতকের বাংলা নাটক- U.G

Class-30

উনিশ শতকের বাংলা উপন্যাস ও গল্প- Sb.M

Class-30

Teaching Plan 2022-23

JULY-DECEMBER- 2022

GENERAL COURSE

SEM-1 (GENERAL)

GE-1/CC-1A – (H+ G) প্রবন্ধসাহিত্য

বঙ্কিমচন্দ্র চট্টোপাধ্যায়- P.M

Class-30

রবীন্দ্রনাথ ঠাকুর-P.M

Class-30

SEM-3 (GENERAL)

GE-3/CC-1C (H+ G) বাংলা সাহিত্যের ইতিহাস

চর্যাগীতি থেকে বিদ্যাসাগর- S.M

Class-10

উপন্যাস- P.M

Class-10

নাটক- P.M

Class-10

ছোটগল্প-Sb.M

Class-10

প্রবন্ধ-Sb.M

Class-10

কবিতা-Sb.M

Class-10

SEC-1 (H+G) বাংলা ব্যাকরণ

পদ পরিচয়, সন্ধি, সমাস- U.G

Class-10

কারক, বিভক্তি, বাচ্য, বাক্য পরিবর্তন – S.D

Class-10

SEM-5 (GENERAL)

DSE-1A (GEN) উনিশ শতকের বাংলা উপন্যাস/গল্প

উনিশ শতকের বাংলা উপন্যাস-

প্রারম্ভ থেকে বঙ্কিমচন্দ্র পর্যন্ত – SD Class-30

বঙ্কিম যুগের অন্যান্য ঔপন্যাসিক- UG Class-30

GE-1 (GEN) উনিশ শতকের বাংলা প্রবন্ধ- No STUDENT FOR THIS SEM.

SEC-3 (GEN) প্রবন্ধ ও প্রতিবেদন

প্রবন্ধ রচনা- Sb.M Class-10

প্রতিবেদন রচনা-S.M Class-10

Teaching Plan 2022-23

January-June 2023

HONOURS

দ্বিতীয় সেমিস্টার সাম্মানিক

সিসি-৩

বৈষ্ণব পদাবলী- এস.এম Class-30

শাক্তপদাবলী – ইউ.জি Class-30

সিসি-৪

রামায়ণ- এস.ডি Class-30

অন্নদামঙ্গল- এস.বি.এম Class-30

চতুর্থ সেমিস্টার সাম্মানিক

সিসি-৮

রবীন্দ্র কবিতা- ইউ.জি Class-30

আধুনিক কবিতা- এস.ডি Class-30

সি সি-৯

চন্দ্রশেখর- এস.এম Class-30

গণদেবতা- ইউ.জি Class-30

সিসি-১০

নীলদর্পণ- এস.বি.এম Class-30

শারদোৎসব – পি.এম Class-30

ষষ্ঠ সেমিস্টার সাম্মানিক

সিসি-১৩

সংস্কৃত সাহিত্যের ইতিহাস- ইউ.জি	Class-30
ইংরেজি সাহিত্যের ইতিহাস- এস.ডি	Class-30

সিসি-১৪

সাহিত্যের রূপ-রীতি – এস.এম	Class-30
সাহিত্যের সংরূপ- পি.এম	Class-30

ডি.এস.ই -৩

স্বাধীনতা পূর্ববর্তী বাংলা গল্প- ইউ.জি	Class-30
স্বাধীনতা পূর্ববর্তী বাংলা উপন্যাস- এস.বি.এম	Class-30

ডি.এস.ই-৪

*প্রবন্ধ রচনা- এস.এম	Class-30
*লোকসংস্কৃতি ও লোকসাহিত্য-	
শুরু থেকে ধাঁধা পর্যন্ত – এস.ডি	Class-15
লোকসংগীত, লোকনাট্য, মন্ত্র, ময়মনসিংহ গীতিকা – এস.বি.এম	Class-15

Teaching Plan 2022-23

January-June 2023

GENERAL COURSE

SEM-2 GENERAL

জি.ই-২/ সিসি-১বি

প্রভাতকুমার মুখোপাধ্যায়- পি.এম	Class-30
শরৎচন্দ্র চট্টোপাধ্যায়- পি.এম	Class-30

এ.ই.সি.সি-২

*ভাষা অংশ

ক) বোধপরীক্ষা- স্বদেশী সমাজ, বাংলা ভাষা, বই পড়া, স্ত্রী জাতির অবনতি, অপবিজ্ঞান- পি.এম	
খ) সংবাদপত্রে প্রতিবেদন রচনা- পি.এম	Class-5
গ) ইংরেজি থেকে বাংলায় অনুবাদ- এস.ডি	Class-5
*সাহিত্য অংশ- কবিতার ভাবসৌন্দর্য বিশ্লেষণ- এস.এম	Class-10
*ছোটগল্পের সাহিত্যমূল্য বিচার- এস.বি.এম	Class-10

সিসি-(এল২-১)- পিওর পাশ স্টুডেন্টদের জন্য

আদরিণী- ইউ.জি	Class-12
তারিণী মাঝি- এস.ডি	Class-12
মৌরিফুল- এস.এম	Class-12
হারানের নাতজামাই-পি.এম	Class-12
তাজমহল- এস.বি.এম	Class-12

SEM-4 GENERAL

জি.ই-৪/সিসি১ডি

বাংলা ভাষার উৎস- থেকে- ভাষাতাত্ত্বিক বৈশিষ্ট্য পর্যন্ত – এস.বি.এম Class-30

শব্দ ভান্ডার, সাধু-চলিত, উপভাষা- এস.ডি Class-30

এস.ই.সি-২

পত্রলিখন, প্রতিবেদন- এস.এম Class-10

অনুচ্ছেদ, ভাবার্থ ও ভাব সম্প্রসারণ- পি.এম Class-10

এল২-২

বলাকা, বনলতাসেন- ইউ.জি Class-12

আমার কৈফিয়ত,বিরহ- এস.ডি Class-12

প্রার্থনা, মল্লয়ার দেশ- এস.এম Class-12

কাস্তে, পরাণ মাঝি- এস.বি.এম Class-12

বাবরের প্রার্থনা, অবনী বাড়ি আছ- পি.এম Class-12

SEM-6 GENERAL

ডি.এস.ই-১বি

উনিশ শতকের বাংলা নাটক- ইউ.জি Class-60

অথবা

উনিশ শতকের বাংলা প্রবন্ধ- এস.ডি Class-60

জিই-২

উনিশ শতকের বাংলা ভ্রমণসাহিত্য ও চিঠিপত্র- এস.এম Class-60

এস.ই.সি-৪

ব্যবহারিক বাংলাচর্চা ও অনুবাদচর্চা- এস.বি.এম Class-20

এস.এম= Smt. Sailee Mukherjee, Associate Professor

ইউ.জি= Dr. Ujjwal Kumar Gangopadhyay, Associate Professor

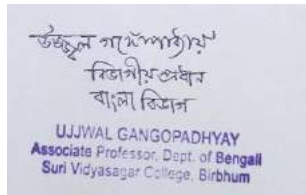
এস.ডি= Dr. Sristidhar Das, Associate Professor

এস.বি.এম= Sri Sunil Baran Mondal, Assistant Professor 1

পি.এম= Smt. Pinki Mondal, SACT

SEMESTER WISE CLASS ALLOTMENT
Academic Year July2022-June 2023

	Sem 1H	Sem 1G	Sem 2H	Sem 2G	Sem 3H	Sem 3G	Sem 4H	Sem 4G	Sem 5H	Sem 5G	Sem 6H	Sem 6G
S.M	30		30	22	42	10	30	22	45	10	60	60
U.G	30		30	12	32	10	60	12	60	30	60	60
S.D	30		30	17	52	10	30	42	60	30	45	60
S.B.M	30		30	22	24	30	30	42	45	10	45	20
P.M		60		65	30	20	30	22	30		30	



TEACHING PLAN- 2022-23 (ODD SEMISTERS)

COURSE	COURSE TYPE Hons. / Gen	PAPER NO.	TITLE OF THE PAPER	ALLOTTED TO
SEM 2	HONOURS	CC-3	History of India - II (300 AD – 1206 AD)	Prof. N. Chakraborty
		CC-4	Social Formation and Cultural Pattern of the Medieval World	Dr. A. Chaudhuri
	GENERAL	CC-1B/ GE -2	History of India - II (From 300 AD to 1206 AD)	Prof. N. Chakraborty
	GENERAL	CC-1D/ GE -4	History of India - IV (1707 AD --1950 AD)	Dr. A. Chaudhuri
SEM 4	HONOURS	CC-8	Rise of Modern West – II (17th & 18th Centuries)	Dr. P.S. Mazumdar
		CC-9	History of India - V (1758 AD --1857 AD)	Prof. N. Chakraborty
		CC-10	History of India - VI (1858 - 1964)	Dr. Amiya Ghosh
		SEC-2	Art Appreciation: An introduction to Indian Art	Dr. P.S. Mazumdar
	GENERAL	SEC-2	Understanding Heritage	Dr. Amiya Ghosh
		CC-13	History of Modern Europe - II (1871-1945)	Dr. A. Chaudhuri
SEM 6	HONOURS	CC-14	Making of the Contemporary World (1946 – 2000)	Dr. P.S. Mazumdar
		DSE- 3	History of Modern East Asia (1840-1919)	Prof. N. Chakraborty
		DSE- 4	History of China & Japan (1919-1949)	Dr. Amiya Ghosh

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

GENERAL	DSE-2A	Some Aspects of European history (1789-1939)	Dr. Amiya Ghosh
	GE-2	Gender & Education in India	Dr. A. Chaudhuri
	SEC-4	Art Appreciation: An introduction to Indian Art	Dr. P.S. Mazumdar

Semester – II
History Honours
Paper – CC- III (Core Course)
History Of India- III (600 –1206 AD)
6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Jan., 2023

I. Studying Early Medieval India Historical Geography – Sources: texts, epigraphic and numismatic data Debates on Indian feudalism, rise of the Rajputs and the nature of the state

Feb., 2023

II. Political Structures Evolution of political structures: North India- Harsha, Sasanka, Pala, Sena and Pratiharas, Rise of Rajputs Evolution of political structures: South India –Chalukyas of Badami, Rashtrakutas, Cholas. Legitimization of kingship; brahmanas and temples; royal genealogies and rituals

March., 2023

III. Arrival of Islam in India Arab conquest of Sindh: nature and impact of the new set-up; Causes and consequences of early Turkish invasions: Mahmud of Ghazni; Shahab-ud-Din of Ghur

April., 2023

IV. Agrarian Structure and Social Change Land grants; Agricultural expansion; the feudal debate
Proliferation of castes; status of untouchables

May 2023

V. Trade and Commerce Inter-regional trade Maritime trade Forms of exchange Process of urbanization and de urbanization Merchant guilds of South India

June 2023

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

VI. Religious and Cultural Developments Bhakti, Tantricism, Puranic traditions; Buddhism and Jainism; Popular religious cults Islamic intellectual traditions: Al-Biruni; Al-Hujwiri Regional languages and literature Art and architecture: Evolution of regional styles

History Honours, Sem –II

Paper – CC- IV (Core Course)

Social Formation and Cultural Pattern of the Medieval World

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Jan. 2023

I. Roman Republic Its Significance, Constitution, Law, & Society, Agrarian economy, urbanization & trade-Economy Growth of Slavery & slave society in ancient Rome

Feb., 2023

II. Religion, culture, literature and Philosophy in ancient Rome

March, 2023

III. Crises of the Roman Empire & transition to Participate

April, 2023

IV. Economic developments in Europe (7th to 14th centuries) Feudalism, Organization of production, towns and trade, technological developments. Crisis of feudalism.

May, 2023

V. Religion and culture in medieval Europe

June 2023

VI. Societies in Central Islamic Lands The tribal background, ummah, Caliphate state; rise of Sultanates Religious developments: the origins of shariah, Mihna, Sufism Urbanization and trade

Semester – II

History General

Paper – CC- I B / GE- II (Core Cours)

History of India – II (300 to 1206 CE)

6 Credits, Total Marks 75 (60+15) Total – 60 Lectures

Jan. 2023

I. The Rise & Growth of the Guptas Administration, Society, Economy, Religion, Art, Literature, and Science & Technology.

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

Feb., 2023

II. Harsha & His Times Harsha's Kingdom, Sasanka, Administration, Buddhism & Nalanda

March, 2023

III. Towards Early Medieval: North India - Palas, Senas, Pratiharas and the rise of Rajputs

April, 2023

IV. Towards Early Medieval: South India Chalukyas, Pallavas, Rashtrakutas, and the Cholas

May, 2023

V. Society, Economy and Culture in Early Medieval: The Feudalism debate Changes in Society, Economy and Culture

June, 2023

VI. Arrival of Islam in India

Arab conquest of Sindh

Struggle for power in Northern India & establishment of Sultanate.

Semester - IV

History Honours

Paper – CC- VIII (Core Course)

RISE OF THE MODERN WEST II (17th& 18th centuries)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Jan., 2023

I. 17th century European crisis: economic, social and political dimensions

Feb., 2023

II. The English Revolution: major issues; political and intellectual currents

Match, 2023

III. Rise of modern science in relation to European society from the Renaissance to the 17th century

April, 2023

IV. Mercantilism and European economics; 17th and 18th centuries

V. European politics in the 18th century: parliamentary monarchy; Patterns of Absolutism in Europe

May, 2023

VI. Prelude to the Industrial Revolution

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

Semester - IV

History Honours

Paper – CC- IX (Core Course)

HISTORY OF INDIA- V (c. 1758- 1857)

6 Credits, Total marks 75 (60 + 15) Total – 60 Lectures

Jan., 2023

I. Foundations of Company's Rule Early contestations between the Dutch, French and the British East India Company Bengal Nawabs and the battle of Plassey, Buxar and the grant of Dewani, Anglo Mysore; Anglo Maratha and Anglo Sikh relations. The Subsidiary alliance and the Doctrine of Lapse.

Feb., 2023

II. Legitimization of Company's rule in India Regulating Act; Pitt's India Act; Charter Acts of 1813, 1833 and 1853 Administrative, Military, Police and Educational Reforms

March, 2023

III. Rural Economy and Society Land revenue systems- Permanent settlement, Rayatwari and Mahalwari Commercialization of agriculture and indebtedness. Rural society: change and continuity, Famines.

April, 2023

IV. Trade and Industry , De industrialization , Trade and fiscal policy , Drain of Wealth Growth of modern industry

V. Renaissance and Reforms Bengal Renaissance and Socio-religious Reforms: Rammohan Roy (Brahma Samaj), Young Bengal, Vidyasagar and Others Educational Reforms initiated by the Company

May, 2023

VI. Popular Resistance Santhal uprising (1856-57); Sanyasi Uprising, Kol Bhumij uprising, Wahabi Faraizi and Santhal Uprising Revolt of 1857: causes and nature

Semester - IV

History Honours

Paper – CC- X (Core Course)

HISTORY OF INDIA (1858-1964)

6 Credits, Total marks 75 (60 + 15) Total – 60 Lectures

Jan., 2023

I. The aftermath of 1857 Queen's Proclamation; The Indigo rebellion, The Deccan Riots, The growth of the new middle class; The age of associations, The Aligarh movement, The Arya and the Prarthana Samaj

Feb., 2023

II. The early phase of Indian Freedom Movement Historiography of Indian Nationalism; Birth of Indian National Congress, The Moderates and the Extremists, Partition of Bengal, the Swadeshi

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

movement, Muslim League, Morle Minto Reforns; Revolutionaries in India and abroad, the Lucknow pact

March, 2023

III. The Gandhian era Gandhi's rise to power, Rowlatt Satyagraha, Montagu Chelmsford reforms;

Khilafat and Non-co-operation movement, The Swarajya party, Poona Pact, Civil Disobedience Movement, Quit India Movement;

April, 2023

IV. Towards freedom Government of India Act 1935, The rise of the leftist movements, The Peasant and Working class movements, Cripps Mission, Subhas Bose and INA, RIN mutiny; Wavell Plan, Cabinet Mission; Tebhaga and Telengana movements;

May, 2023

V. Communal Politics Demand for Pakistan; Lahore session of the Muslim League, rise of Hindu Mahasabha and the RSS; Akali Dal, Partition and its consequences.

June, 2023

VI. The Nehru era Internal policy between 1947 to 1964- movements for social justice, the new constitution, integration of the princely states, growth of parliamentary democracy, five years plan; India's foreign policy – Non alignment, India's relation with her neighbours.

Semester - IV History Honours

Paper – SEC-II (Skill Enhancement Course)

Art Appreciation: An Understanding to Indian Art

40 Lectures, 2 Credits, Total marks – 50

The purpose of this course is to introduce students to Indian art, from ancient to contemporary times, in order to understand and appreciate its diversity and its aesthetic richness. The course will equip students with the abilities to understand art as a medium of cultural expression. It will give students direct exposure to Indian art through visuals, and visits to sites and museums.

Jan., 2023

I. Prehistoric and protohistoric art: Rock art; Harappan arts and crafts

Feb., 2023

II. Indian art (c. 600 BCE – 600 CE): World Heritage Site Managers, UNESCO World Heritage Manuals [can be downloaded/ accessed at www.unesco.org] Notions of art and craft_ Canons of Indian paintings_ Major developments in stupa, cave, and temple art and architecture Early Indian sculpture: style and iconography_ Numismatic art

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

March, 2023

III. Indian Art (c. 600 CE – 1200 CE) : Temple forms and their architectural features Early illustrated manuscripts and mural painting traditions Early medieval sculpture: style and iconography, Indian bronzes or metal icons

April, 2023

IV. Indian art and architecture (c. 1200 CE – 1800 CE) : Sultanate and Mughal architecture, Miniature painting traditions: Mughal, Rajasthani, Pahari Introduction to fort, palace and haveli Architecture

May, 2023

V. Modern and Contemporary Indian art and Architecture: The Colonial Period- Art movements: Bengal School of Art, Progressive Artists Group, etc. Major artists and their artworks_ Popular art forms (folk art traditions)

Semester – IV

History General

Paper – CC- ID / GE- IV (Core Course)

HISTORY OF INDIA- IV (FROM 1707 – 1950 AD)

Core Courses Paper – I D 6, Credits, 60 Lectures, Total Marks 75 (60+15)

Jan., 2023

I. Regional States and rise of the Company's rule Bengal – Battle of Plassey, Buxar and Dewani Marathas and Anglo Maratha relation Mysore and Anglo Mysore relation Anglo Sikh relations

Feb., 2023

II. Land Settlements, peasant and Tribal revolts upto 1857 Permanent settlement and Rayatwari Tribal and Peasant revolts- Wahabi, Fairazi and Santal

March, 2023

III. Socio- Religious Reform Movements in the 19th Century Rammohan Roy, Young Bengal, Vidyasagar, AryaSamaj, Growth of a new middle class

April, 2023

IV. 1857 and its aftermath Causes and nature of the 1857 Age of associations and the birth of INC

V. Indian National Movement Moderates and Extremists Partition of Bengal and the Swadeshi movement Rise of Gandhi in Indian politics and Gandhian movements. Leftist movements Subhash Chandra Bose and the INA

May, 2023

VI. Partition Of India and the establishment of Indian Republic Government Of India Act 1935

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

Cripps Mission, Wavell Plan, Cabinet Mission Communal Politics Partition of India Constituent Assembly and the birth of the Republic

Sem – IV
History General
Paper – SEC- II (Skill Enhancement Courses)
Understanding Heritage
40 Lectures, 2 Credits, Total marks – 50

This course will enable students to understand the different facets of heritage and their significance. It highlights the legal and institutional frameworks for heritage protection in India as also the challenges facing it. The implications of the rapidly changing interface between heritage and history will also be examined. The course will be strongly project-based and will require visits to sites and monuments. At least two Projects will be based on visits to Museums/Heritage Sites.

Jan, 2023

I. Defining Heritage Meaning of 'antiquity', 'archaeological site', 'tangible heritage', 'intangible heritage' and 'art treasure'

Feb., 2023

II. Evolution of Heritage Legislation and the Institutional Framework: Conventions and Acts— national and international Heritage-related government departments, museums, regulatory bodies etc. Conservation Initiatives

March, 2023

III. Challenges facing Tangible and Intangible Heritage Development, antiquity smuggling, conflict (to be examined through specific case studies)

April, 2023

IV. Challenges facing Tangible and Intangible Heritage: Development, antiquity smuggling, conflict (to be examined through specific case studies)

May, 2023

V. Heritage and Travel: Viewing Heritage Sites, The relationship between cultural heritage, landscape and travel recent trends

Semester – VI

History Honours Paper – CC- XIII (Core Course)

HISTORY OF MODERN EUROPE II (1871 – 1945)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Jan., 2023

I. Imperial Expansion: Bismarck's diplomacy and the new balance of power; Kaiser William II and Welt Politik; new course in German foreign policy; the eastern question of the late 19th century, Balkan wars

Feb., 2023

II. First World War and its aftermath: Outbreak of the First World War, emergence of the two armed camps; impact of the first world; the Russian revolution, the peace settlements of 1919, the League of nations.

March, 2023

III. Challenges to the new European order: Consolidation and Development of power of the Soviet State, French search for security, Rise of Fascism in Italy and Nazism in Germany, World Economic depression of 1929, the Crisis of the Inter War European Order

April, 2023

IV. The Road to 2nd World War; Germany's aggressive foreign policy; the role of the war economy, Spanish civil war, Mussolini's foreign policy and Abyssinian crisis, formation of the Rome Berlin Tokyo Axis;

V. Second World War: Outbreak of the 2nd World War and its impact

May, 2023

VI. United Nations Organization: its origin and functions

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

History Honours Paper – CC- XIV (Core Course) MAKING OF THE CONTEMPORARY WORLD (1946-2000) 6 Credits, Total marks, 75 (60 + 15) Total – 60 Lectures

Jan., 2023

I. Post War Development a. An overview of post-war developments Social, Political and Economic b. Cold war Politics- ideological clash & power rivalry between super powers c. Military and Defense Alliances and Peace Pacts - Containment of Communism- Marshal Plan Truman Doctrine- Warsaw Pact- Military Alliances-NATO; SEATO- Bagdad Pact- Cominform, Berlin after 1945- Fall of the Berlin Wall & German Re-Unification

Feb., 2023

II. Decolonization and the emergence of the Third world --a. National Movements in Asia & Africa
b. Emergence of the Third World; Non –alignment c. Third World Organizations-OPEC, ASEAN, SAARC

March, 2023

III. Cold War Escalates a. War in Korea, Cuban missile crisis, Vietnam problem b. Palestine Problem; Suez Crisis, Iran- Iraq conflicts, Gulf War c. Arab- Israel wars- activities of the PLO, Afghan Problem

April, 2023

IV. Perspectives on Development and under development a. Globalization & its impact on the Third World b. Liberalization & its impact on Indian economy; Multinational Companies, World Bank, IMF
c. Information Revolution

V. Modernity and cultural transformation Emerging trends in culture, Media and consumption; Information Revolution

May, 2023

VI. Changing World --a. Collapse of Soviet Bloc; Process of disintegrations, Glasnost and Perestroika,
b. American Uni-polarism; USA as a global policeman c. Current threats confronting the World -
Ethnic Clashes & Cross border Terrorism.

Sem – VI

History Honours Paper – DSE- III (Discipline Specific Elective) History of Modern East Asia-1 (1840-1919) 6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Jan., 2023

I. Pre-colonial China -- [a] Nature and structure of the traditional Chinese society. [b] The peasantry and gentry; Government bureaucracy and central control. [c] The Confucian value system. [d] China's pre-modern economy.

Feb., 2023

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

II. Anglo Chinese relations till the Opium War [a] The Tribute system; the Canton trade and its collapse. [b] First & Second Opium Wars—the unequal treaties. [c] Financial Imperialism: Open Door policy.

March, 2023

III. Rebellion, Restoration and Nationalism - [a] The Taiping Rebellion: causes, nature and failure. [b] Tung- Chih Restoration; the Hundred Days' Reform and the Self –Strengthening Movement. [c] Boxer Uprising : causes, nature and failure. [d]The Revolution of 1911: background and causes, nature and significance; role of Dr Sun YatSen; principles and politics, formation of the Republic; Yuan Shih-kai and warlordism; the rise of the Kuomintang.

April, 2023

IV. Pre-Meiji Japan [a]Tokugawa Shogunate: the feudal society and the government; Shintoism. [b] Economic condition. c) Encounter with the West: the Perry Mission; the opening of the Japan to the west. [d] The crisis and fall of the Shogunate

V. Meiji Restoration - [a] Causes and nature of Restoration. [b] Transformation of Japan: process of modernization. [c] Meiji Constitution.

May, 2023

VI. Expansion of Japan up to the First World war [a] Sino–Japanese war (1894-95). [b] The Anglo-Japanese Alliance (1902). [c] Contest for Korea and the Russo-Japanese war (1904-05) [d] Japan and the First World War.

Sem – VI

History Honours Paper – DSE- IV (Discipline Specific Elective)

History of China and Japan (1919-1939)

6 Credits, Total 75 marks (60 + 15) Total Lectures – 60

Jan., 2023

I. Nationalism in China [a] Emergence of the Republic and Yuan Shih Kai: Warlordism. [b] May 4th Movement: origin, nature and significance.

Feb., 2023

II. The Kuomintang and the Nationalist government [a] The rise of the Kuomintang Party: Political crisis in the 1920s; The First United Front [b] Chiang Kai-shek: the KMT-CCP conflict. [c] Ten Years of Nanking Government.

March, 2023

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

III. The Communist Victory in China [a] Background of the foundation of the Communist Party. [b] CCP under Mao Tse-tung: the making of the Red Army; the Second United Front; Long March. [c] The Yen-an experiment; [d] The Chinese Revolution (1949): Ideology, causes and significance; the establishment of the Peoples' Republic of China.

April, 2023

IV. Rise of modern Japan - [a] Process of modernization: social, military, political and educational; popular and democratic movement; [b] Rise of Political Parties, abolition of feudalism and economic growth. [c] Industrialization and the role of the state; the Zaibatsu.

V. Imperial Japan [a] Japan and World war I: Twenty-one Demands. [b] Washington Conference. [c] Manchurian crisis: role of the League of Nations. [d] Failure of the Democratic system and the rise of militarism in the 1930s and the 1940s.

May, 2023

VI. Japan and World War II [a] Japan's bid for supremacy and defeat. [b] Post war Japan under General Douglas MacArthur.

Semester – VI History General

Paper – DSE IIA (Discipline Specific Elective)

SOME ASPECTS OF EUROPEAN HISTORY (1789-1939)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Jan., 2023

1. The French Revolution a) France before 1789; Socio- Economic and Political background; Birth of new ideas Philosophers and Physiocrats b) Progress of the Revolution; The Constituent Assembly; The reign of Terror c) Impact of French Revolution on Europe

Feb., 2023

2) Napoleon Bonaparte and aftermath a) Rise of Napoleon b) Napoleonic reforms; Napoleon and Europe; Fall of Napoleon, c) Vienna Congress; The concert of Europe; Metternich system

March, 2023

3. The revolutions of 1830 and 1848 a) The Democratic and Nationalist Aspirations of Europe b) Causes, and Impact of July Revolution of 1830 c) The February revolution of 1848-50.

April 2023

4. Age of Nationalism a) The Crimean War; The Eastern Question; Turkey; Russia's ambition in the Balkans b) The second Empire in France and Louis Napoleon c. Unification of Italy & Germany

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

5. Europe between 1914-1939 a) Origin of the First World War; Role of different European Powers; Peace of Settlement of 1919; The League of Nations b) Political and Economic Disorder & Depression, Policy of Appeasement, Spanish Civil War; Munich Pact' Russo-German Non-Aggression Pact c) Rise of Fascism in Italy and Nazism in Germany

May, 2023

6. Second world war a) Origins b) Failure of disarmament and the League of Nations c) Responsibility of Hitler

Sem-VI

History General

Paper – GE II (Generic Elective Paper)

Gender & Education in India

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Jan., 2023

I. Historiographical Trends a. Pre-colonial historiographical trends in women's education b. colonial historiographical trends in women's education c. Post-colonial historiographical trends in women's education

Feb., 2023

II. Education in Early and Medieval Times a. Women's Education in Medieval times b. Regional trends of Women's education in pre-colonial India c. Instances of women's education, obstacles

March, 2023

III. Colonial Period a. Socio-religious reforms b. Role of Christian missionaries in spreading female education, recent debates c. Indigenous initiatives at women's education

April, 2023

IV. Role of Schools and Colleges in colonial and post-colonial period a. Girls School and Colleges, development towards co-education b. Expansion of infrastructural facilities in education c. Technical and vocational education for women

V. Contours of female literacy since 1950 a. Interrogating literacy for women b. Government policies and Schemes c. Disparities in Literacy: Region, Community, Social and Eco-factors

May, 2023

VI. Present Scenario a. Education as a tool of Empowerment

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

Sem – VI

History General

Paper – SEC-IV (Skill Enhancement Courses)

Art Appreciation: An Understanding to Indian Art

2 Credits, Total marks – 50 Total – 40 Lectures

The purpose of this course is to introduce students to Indian art, from ancient to contemporary times, in order to understand and appreciate its diversity and its aesthetic richness. The course will equip students with the abilities to understand art as a medium of cultural expression. It will give students direct exposure to Indian art through visuals, and visits to sites and museums.

Jan., 2023

I. Prehistoric and protohistoric art: Rock art; Harappan arts and crafts

Feb., 2023

II. Indian art (c. 600 BCE – 600 CE): World Heritage Site Managers, UNESCO World Heritage Manuals [can be downloaded/ accessed at www.unesco.org Notions of art and craft, Canons of Indian paintings, Major developments in stupa, cave, and temple art and architecture Early Indian sculpture: style and iconography, Numismatic art

March, 2023

III. Indian Art (c. 600 CE – 1200 CE) : Temple forms and their architectural features, Early illustrated manuscripts and mural painting traditions Early medieval sculpture: style and iconography, Indian bronzes or metal icons .

April, 2023

IV. Indian art and architecture (c. 1200 CE – 1800 CE) : Sultanate and Mughal architecture, Miniature painting traditions: Mughal, Rajasthani, Pahari Introduction to fort, palace and haveli Architecture

May, 2023

V. Modern and Contemporary Indian art and Architecture: The Colonial Period, Art movements: Bengal School of Art, Progressive Artists Group, etc. Major artists and their artworks, Popular art forms (folk art traditions

Dept. of History
Suri Vidyasagar College

**DEPARTMENT OF BOTANY
SURI VIDYASAGAR COLLEGE**

TEACHING PLAN OF DR. KALYAN KUMAR BHATTACHARYYA
(Associate Professor)
Botany (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory CC1A/GE-1: Biodiversity Unit 2: Algae- General characteristics Practical(Generic: Zoology Hons.) CC1A/GE-1: Biodiversity	2	Practical (Generic: Zoology Hons.) CC1C/GE-3: Plant Anatomy and Embryology 1. Study of meristems through permanent slides and photographs.	2	NIL	NIL
	2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: <i>Lycopodium</i> (stem), <i>Selaginella</i> (stem)	2				
Aug	Theory CC1A/GE-1: Biodiversity Unit 2: Algae- Ecology and distribution; Range of thallus organization and reproduction Practical(Generic: Zoology Hons.) CC1A/GE-1: Biodiversity	2	Practical (Generic: Zoology Hons.) CC1C/GE-3: Plant Anatomy and Embryology 2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)	2	NIL	NIL
	2. Dissection, mounting, description, drawing, labeling and identification of the following genus: a. Pteridophytes: <i>Pteris</i> (leaflet).	1				
Sept	Theory CC1A/GE-1: Biodiversity Unit 2: Algae- Classification of algae Practical(Generic: Zoology Hons.) CC1A/GE-1: Biodiversity	2	Practical (Generic: Zoology Hons.) CC1C/GE-3: Plant Anatomy and Embryology 7. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous – Through Permanent Slides/Photographs	2	NIL	NIL
	2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: b. Gymnosperms: <i>Cycas</i> leaflet, <i>Pinus</i> needle.	2				
Oct	Theory CC1A/GE-1: Biodiversity Unit 2: Algae-	2	Practical (Generic: Zoology Hons.) CC1C/GE-3: Plant Anatomy and Embryology		NIL	NIL

	Morphology and life-cycles of the following: <i>Chlamydomonas</i> , <i>Oedogonium</i> Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity 3 Identification of all above mentioned genera in theoretical syllabus from permanent slides	1	8. Female gametophyte: Polygonum (monosporic) type of Embryo sac Development (Permanent slides/photographs).	2		
Nov	Theory CCIA/GE-1: Biodiversity Unit 2: Algae- Morphology and life-cycles of the following: <i>Chara</i> , <i>Fucus</i> Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity Revise Practical Class	2 1	Practical (Generic: Zoology Hons.) CCIC/GE-3: Plant Anatomy and Embryology Revise Practical Class	1	NIL	NIL
Dec	Theory CCIA/GE-1: Biodiversity Unit 2: Algae- Morphology and life-cycles of the following: <i>Polysiphonia</i> . Economic importance of algae Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity Revise Practical Class	2 1	Practical (Generic: Zoology Hons.) CCIC/GE-3: Plant Anatomy and Embryology Revise Practical Class	1	NIL	NIL
	Sem-II (G)	No. of Lecture	Sem-IV (G)	No. of Lecture	Sem-VI (G)	No. of Lecture
Jan	Practical (Generic: Zoology Hons.) CCIB/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Malvaceae, Rubiaceae,	2	Practical (Generic: Zoology Hons.) CCID/GE-4 Plant Physiology and Metabolism: 5. To study the effect of light intensity and bicarbonate concentration on O ₂ evolution in photosynthesis.	2	Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Unit 4: Mutations and Chromosomal Aberrations Types of mutations, effects of physical & chemical mutagens. Numerical chromosomal changes: Euploidy, Polyploidy and Aneuploidy; Structural chromosomal changes: Deletions, Duplications, Inversions & Translocations. Practical DSE-1B. Cell Biology, Genetics and Molecular Biology 1. To study prokaryotic cells (bacteria), viruses, eukaryotic cells with the help of light and electron micrographs.	4 1
Feb	Practical (Generic: Zoology Hons.) CCIB/GE-2: Plant		Practical (Generic: Zoology Hons.) CCID/GE-4 Plant Physiology		Theory DSE-1B: Cell Biology,	

	<p>Ecology and Taxonomy</p> <p>1. Study and identification of the following families: <i>Caesalpinaceae</i></p>	2	<p>and Metabolism:</p> <p>6. Comparison of the rate of respiration in any two parts of a plant.</p>	2	<p>Genetics and Molecular Biology</p> <p>Unit 6: Cell Membrane and Cell Wall The functions of membranes; Models of membrane structure; The fluidity of membranes; Membrane proteins and their functions; Carbohydrates in the membrane; Faces of the membranes; Selective permeability of the membranes; Cell wall.</p> <p>Practical</p> <p>DSE-1B: Cell Biology, Genetics and Molecular Biology</p> <p>3. To study the structure of plant cell through temporary mounts.</p>	6	1
Mar	<p>Practical (Generic: Zoology Hons.)</p> <p>CC1B/GE-2: Plant Ecology and Taxonomy</p> <p>3. Ecological adaptations of some species: <i>Ipomoea aquatica</i> stem,</p>	2	<p>Practical (Generic: Zoology Hons.)</p> <p>CC1D/GE-4Plant Physiology and Metabolism:</p> <p>Revise Practical Class</p>	1	<p>Theory</p> <p>DSE-1B: Cell Biology, Genetics and Molecular Biology</p> <p>Unit 8: Genetic material DNA: Miescher to Watson and Crick- historic perspective, Griffith's and Avery's transformation experiments, Hershey-Chase bacteriophage experiment, DNA structure, types of DNA, types of genetic material. DNA replication prokaryotes and eukaryotes : bidirectional replication, semi- conservative, semi discontinuous A priming, θ theta mode of replication, replication of linear, ds- A, replicating the end of linear chromosome including replication enzymes.</p> <p>Practical</p> <p>DSE-1B: Cell Biology, Genetics and Molecular Biology</p> <p>4. To study the structure of animal cells by temporary mounts-squamous epithelial cell</p>	6	1
Apr	<p>Practical (Generic: Zoology Hons.)</p> <p>CC1B/GE-2: Plant Ecology and Taxonomy</p> <p>3. Ecological adaptations of some species: Phyllode of <i>Acacia auriculiformis</i></p>	2	<p>Practical (Generic: Zoology Hons.)</p> <p>CC1D/GE-4Plant Physiology and Metabolism:</p> <p>Revise Practical Class</p>	1	<p>Theory</p> <p>DSE-1B: Cell Biology, Genetics and Molecular Biology</p> <p>Unit 9: Transcription (Prokaryotes and Eukaryotes) Types of structures of RNA (mRNA, tRNA, rRNA), RNA polymerase- various types; Translation (Prokaryotes and eukaryotes), genetic code.</p> <p>Practical</p> <p>DSE-1B: Cell Biology, Genetics and Molecular Biology</p> <p>6. Study of plasmolysis and deplasmolysis on <i>Rhoeo</i> leaf.</p>	6	1
May	<p>Practical (Generic: Zoology Hons.)</p> <p>CC1B/GE-2: Plant Ecology and Taxonomy</p>		<p>Practical (Generic: Zoology Hons.)</p> <p>CC1D/GE-4Plant Physiology and Metabolism:</p> <p>Revise Practical Class</p>	1	<p>Theory</p> <p>DSE-1B: Cell Biology, Genetics and Molecular Biology</p> <p>Unit 10: Regulation of gene</p>		6

	Revise Practical Class	1			expression Prokaryotes: Lac operon and Tryptophan operon ; and in Eukaryotes. Practical DSE-1B: Cell Biology, Genetics and Molecular Biology 7. Measure the cell size (either length or breadth/diameter) by micrometry.	1
June	Practical (Generic: Zoology Hons.) CC1B/GE-2: Plant Ecology and Taxonomy Revise Practical Class	1	Practical (Generic: Zoology Hons.) CC1D/GE-4 Plant Physiology and Metabolism: Revise Practical Class	1	Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Doubt clearing class Practical DSE-1B: Cell Biology, Genetics and Molecular Biology Revise Practical Class	1 1

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[Signature]

Head of the Department,
Department of Botany,
Suri Vidyasagar College

Head
Department of Botany
Suri Vidyasagar College
Suri, Birbhum

TEACHING PLAN OF DR. HEMANTA SAHA
(Assistant Professor)
Botany (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: a. Algae: <i>Nostoc</i> , <i>Oedogonium</i> , <i>Chara</i> .	3	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 7: Embryo and endosperm-Endosperm types Practical (Generic: Zoology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 3. Stem: Monocot: <i>Zea mays</i> ; Dicot: <i>Helianthus</i> ; Secondary: <i>Helianthus</i> (only Permanent slides).	2 2	NIL	NIL
Aug	Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: b. Fungi: <i>Ascobolus</i> , <i>Puccinia</i> (<i>Uredosorus</i> and teleutosorus).	3	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 7: Embryo and endosperm-structure and functions Practical (Generic: Zoology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 4. Root: Monocot: <i>Zea mays</i> ; Dicot: <i>Helianthus</i> ; Secondary: <i>Helianthus</i> (only Permanent slides).	2 2	NIL	NIL
Sept	Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: c. Bryophytes: <i>Riccia</i> , <i>Marchantia</i> and <i>Funaria</i> .	3	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 7: Embryo and endosperm-Dicot and monocot embryo Practical (Generic: Zoology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 5. Leaf: Dicot and Monocot leaf (only Permanent slides)	2 2	NIL	NIL
Oct	Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity 4. Microbiology: Sterilization techniques.; Simple staining of Bacteria with methylene blue/Carbol Fuchsin – Curd	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 7: Embryo and endosperm-Embryo-endosperm relationship. Practical (Generic: Zoology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 6. Adaptive anatomy: Xerophyte (<i>Nerium</i> leaf); Hydrophyte (<i>Hydrilla</i> stem).	2 2	NIL	NIL
Nov	Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity Revised Practical class	1	Theory CCIC/GE-3: Plant Anatomy and Embryology Doubt clearing class Practical (Generic: Zoology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).	1 2	NIL	NIL
Dec	Practical(Generic: Zoology Hons.) CCIA/GE-1: Biodiversity Revised Practical	1	Theory CCIC/GE-3: Plant Anatomy and Embryology Doubt clearing class Practical (Generic: Zoology	1	NIL	NIL

	class		Hons.) CC1C/GE-3: Plant Anatomy and Embryology Revised Practical class	1		
	Sem-II (G)	No. of Lecture	Sem-IV (G)	No. of Lecture	Sem-VI (G)	No. of Lecture
Jan	Practical (Generic: Zoology Hons.) CC1B/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Papilionaceae, Apocynaceae,	4	Theory CC1D/GE-4 Plant Physiology and Metabolism: Unit 1: Plant-water relations - Importance of water Practical (Bio General) CC1D/GE-4 Plant Physiology and Metabolism: 5. To study the effect of light intensity and bicarbonate concentration on O ₂ evolution in photosynthesis. Theory SEC2: Medicinal Botany Unit 2: Conservation of endangered and endemic medicinal plants. Definition: endemic and endangered medicinal plants	2 2 2	NIL	NIL
Feb	Practical (Generic: Zoology Hons.) CC1B/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Labiatae, Solanaceae.	4	Theory CC1D/GE-4 Plant Physiology and Metabolism: Unit 1: Plant-water relations - water potential and its components Practical (Bio General) CC1D/GE-4 Plant Physiology and Metabolism: 6. Comparison of the rate of respiration in any two parts of a plant Theory SEC2: Medicinal Botany Unit 2: Conservation of endangered and endemic medicinal plants. Red list criteria; in-situ conservation: Biosphere reserves, sacred groves	2 2 2	NIL	NIL
Mar	Practical (Generic: Zoology Hons.) CC1B/GE-2: Plant Ecology and Taxonomy 2. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).	2	Theory CC1D/GE-4 Plant Physiology and Metabolism: Unit 1: Plant-water relations - Transpiration and its significance; Practical (Bio General) CC1D/GE-4 Plant Physiology and Metabolism: Revise Practical Class Theory SEC2: Medicinal Botany Unit 2: Conservation of endangered and endemic medicinal plants. National Parks; ex-situ conservation: Botanic Gardens, Ethnomedicinal plant Gardens.	2 1 2	NIL	NIL
Apr	Practical (Generic: Zoology Hons.) CC1B/GE-2: Plant Ecology and Taxonomy 3. Ecological adaptations of some species: <i>Nerium</i> leaf	2	Theory CC1D/GE-4 Plant Physiology and Metabolism: Unit 1: Plant-water relations - Root pressure and guttation Practical (Bio General) CC1D/GE-4 Plant Physiology and Metabolism: Revise Practical Class Theory SEC2: Medicinal Botany Unit 2: Conservation of	2 1 2	NIL	NIL

			endangered and endemic medicinal plants. Propagation of Medicinal Plants: Objectives of the nursery, its classification.			
May	3. Ecological adaptations of some species: <i>Vanda</i> root	2	Theory CCID/GE-4 Plant Physiology and Metabolism: Unit 8: Plant growth regulators - Discovery and physiological roles of auxins, gibberellins Practical (Bio General) CCID/GE-4 Plant Physiology and Metabolism: Revise Practical Class Theory SEC2: Medicinal Botany Doubt clearing class	3 1 1	NIL	NIL
June	Practical (Generic: Zoology Hons.) CCIB/GE-2: Plant Ecology and Taxonomy Revised Practical class	1	Theory CCID/GE-4 Plant Physiology and Metabolism: Unit 8: Plant growth regulators - Discovery and physiological roles of cytokinins, ABA, ethylene. Practical (Bio General) CCID/GE-4 Plant Physiology and Metabolism: Revise Practical Class Theory SEC2: Medicinal Botany Doubt clearing class	3 1 1	NIL	NIL

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Head of the Department,
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TEACHING PLAN OF DR. SANDIPAN CHATTERJEE

(Assistant Professor)

Botany (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory CCIA/GE-1: Biodiversity Unit 3: Fungi- Introduction- General characteristics, ecology and significance Practical (Generic: Physiology & Microbiology Hons.)	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 3: Secondary Growth- Vascular cambium – structure and function, seasonal activity. Practical (Generic: Physiology & Microbiology Hons.)	4	NIL	NIL
	CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: a. Algae: <i>Nostoc</i> , <i>Oedogonium</i> , <i>Chara</i> .	3	CCIC/GE-3: Plant Anatomy and Embryology 1. Study of meristems through permanent slides and photographs.	2		
			Theory SEC1: Biofertilizers Unit 1: General account about the microbes used as biofertilizer – <i>Rhizobium</i> – isolation, identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.	4		
Aug	Theory CCIA/GE-1: Biodiversity Unit 3: Fungi- range of thallus organization, cell wall composition, nutrition, reproduction and classification; True Fungi- General characteristics, ecology and significance Practical (Generic: Physiology & Microbiology Hons.)	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 3: Secondary Growth- Secondary growth in root and stem, Wood (heartwood and sapwood). Practical (Generic: Physiology & Microbiology Hons.)	4	NIL	NIL
	CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: b. Fungi: <i>Ascobolus</i> , <i>Puccinia</i> (<i>Uredosorus</i> and <i>teleutosorus</i>).	2	CCIC/GE-3: Plant Anatomy and Embryology 2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)	2		
			Theory SEC1: Biofertilizers Unit 2: <i>Azospirillum</i> : isolation and mass multiplication – carrier based inoculant, associative effect of different microorganisms.	4		
Sept	Theory CCIA/GE-1: Biodiversity Unit 3: Fungi- life cycle of <i>Rhizopus</i> (<i>Zygomycota</i>) <i>Ascobolus</i> (<i>Ascomyc</i> <i>ota</i>) Practical (Generic: Physiology & Microbiology Hons.)	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 4: Adaptive and protective system-Epidermis, cuticle, stomata; Practical (Generic: Physiology & Microbiology Hons.)	4	NIL	NIL
	CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting,	3	CCIC/GE-3: Plant Anatomy and Embryology 3. Stem: Monocot: Zea mays; Dicot: Helianthus; Secondary: Helianthus (only Permanent slides).	2		
			Theory SEC1: Biofertilizers Unit 2: <i>Azotobacter</i> :	4		

	description, drawing and identification of the following genera: c. Bryophytes: <i>Riccia</i> , <i>Marchantia</i> and <i>Funaria</i> .		classification, characteristics – cropresponse to Azotobacter inoculum, maintenance and mass multiplication.			
Oct	Theory CCIA/GE-1: Biodiversity Unit 3: Fungi- life cycle of Puccinia, Agaricus (Basidiomycota); Symbiotic Associations- Lichens: General account, reproduction and significance Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity 4. Microbiology: Sterilization techniques.; Simple staining of Bacteria with methylene blue/Carbol Fuchsin – Curd	2 2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 4: Adaptive and protective system- General account of adaptations in xerophytes and hydrophytes. Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 4. Root: Monocot: <i>Zea mays</i> ; Dicot: <i>Helianthus</i> ; Secondary: <i>Helianthus</i> (only Permanent slides). Theory SECI: Biofertilizers Unit 3: Cyanobacteria (blue green algae), Azolla and Anabaena azollae association, nitrogen fixation, factors affecting growth, blue green algae and Azolla in rice cultivation.	4 2 4	NIL	NIL
Nov	Theory CCIA/GE-1: Biodiversity Unit 3: Fungi- Mycorrhiza: ectomycorrhiza and endomycorrhiza and their significance Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity Revise Practical Class	3 1	Theory CCIC/GE-3: Plant Anatomy and Embryology Doubt clearing class Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 5. Leaf: Dicot and Monocot leaf (only Permanent slides) Theory SECI: Biofertilizers Doubt clearing class	1 2 1	NIL	NIL
Dec	Theory CCIA/GE-1: Biodiversity Doubt clearing class Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity Revise Practical Class	1 1	Theory CCIC/GE-3: Plant Anatomy and Embryology Doubt clearing class Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology Revise Practical Class Theory SECI: Biofertilizers Doubt clearing class	1 1 1	NIL	NIL
	Sem-II (G)	No. of Lecture	Sem-IV (G)	No. of Lecture	Sem-VI (G)	No. of Lecture
Jan	Practical (Generic: Physiology & Microbiology Hons.) CCIB/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Malvaceae,	2	Theory CCID/GE-4 Plant Physiology and Metabolism: Unit 3: Translocation in phloem - Composition of phloem sap, girdling experiment Practical (Generic: Physiology & Microbiology Hons.) CCID/GE-4 Plant Physiology and Metabolism: 1. Determination of osmotic potential of plant cell sap by plasmolytic method.	3 2	NIL	NIL
Feb	Practical (Generic:		Theory		NIL	NIL

	Physiology & Microbiology (Hons.) CCIB/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Rubiaceae,	2	CCID/GE-4Plant Physiology and Metabolism: Unit 3: Translocation in phloem - Pressure flow model, Phloem loading and unloading. Practical (Generic: Physiology & Microbiology Hons.) CCID/GE-4Plant Physiology and Metabolism: 2. To study the effect of two environmental factors (light and wind) on transpiration by excised twig.	3 2		
Mar	Practical (Generic: Physiology & Microbiology Hons.) CCIB/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Caesalpinaceae	2	Theory CCID/GE-4Plant Physiology and Metabolism: Unit 6: Enzymes - Structure and properties Practical (Generic: Physiology & Microbiology Hons.) CCID/GE-4Plant Physiology and Metabolism: 3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte.	2 2	NIL	NIL
Apr	Practical (Generic: Physiology & Microbiology Hons.) CCIB/GE-2: Plant Ecology and Taxonomy 3. Ecological adaptations of some species: <i>Ipomoea aquatica</i> stem,	2	Theory CCID/GE-4Plant Physiology and Metabolism: Unit 6: Enzymes - Mechanism of enzyme catalysis and enzyme inhibition. Practical (Generic: Physiology & Microbiology Hons.) CCID/GE-4Plant Physiology and Metabolism: Revise Practical Class	2 1	NIL	NIL
May	Practical (Generic: Physiology & Microbiology Hons.) CCIB/GE-2: Plant Ecology and Taxonomy 3. Ecological adaptations of some species: Phyllode of <i>Acaciaauriculiformis</i>	2	Theory CCID/GE-4Plant Physiology and Metabolism: Unit 7: Nitrogen metabolism - Biological nitrogen fixation Practical (Generic: Physiology & Microbiology Hons.) CCID/GE-4Plant Physiology and Metabolism: Revise Practical Class	2 1	NIL	NIL
June	Practical (Generic: Physiology & Microbiology Hons.) CCIB/GE-2: Plant Ecology and Taxonomy Revise Practical Class	1	Theory CCID/GE-4Plant Physiology and Metabolism: Unit 7: Nitrogen metabolism - Nitrate and ammonia assimilation. Practical (Generic: Physiology & Microbiology Hons.) CCID/GE-4Plant Physiology and Metabolism: Revise Practical Class	2 1	NIL	NIL

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TEACHING PLAN OF DR. ANIRBAN PAUL
(Assistant Professor)
Botany (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory CCIA/GE-1: Biodiversity Unit 7: Gymnosperms- General characteristics, classification. Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: <i>Lycopodium</i> (stem), <i>Selaginella</i> (stem)	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 6: Pollination and fertilization Pollination mechanisms and adaptations; Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 6. Adaptive anatomy: Xerophyte (<i>Nerium</i> leaf); Hydrophyte (<i>Hydrilla</i> stem).	4	Theory DSE-1A: Economic Botany and Biotechnology Unit 8: Introduction to biotechnology- History, Derinition, aim and scope, Contribution of Indian Scientist Unit 9: Plant tissue culture - Micropropagation Practical DSE-1A: Economic Botany and Biotechnology 2.Familiarization with basic equipments in tissue culture.	2
		2		2		2
Aug	Theory CCIA/GE-1: Biodiversity Unit 7: Gymnosperms- morphology, anatomy and reproduction of <i>Cycas</i> Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity 2. Dissection, mounting, description, drawing, labeling and identification of the following genus: a. Pteridophytes: <i>Pteris</i> (leaflet)	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 6: Double fertilization; Seed-structure appendages and dispersal mechanisms. Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 7. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous – Through Permanent Slides/Photographs	4	Theory DSE-1A: Economic Botany and Biotechnology Unit 9: Plant tissue culture - haploid production through androgenesis and gynogenesis; brief account of embryo& endosperm culture with their applications Practical DSE-1A: Economic Botany and Biotechnology 3.Study through photographs: Anther culture, somatic embryogenesis	5
		1		2		2
Sept	Theory CCIA/GE-1: Biodiversity Unit 7: Gymnosperms- morphology, anatomy and reproduction of <i>Cycas</i> Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: a. Pteridophytes: b. Gymnosperms: <i>Cycas</i> leaflet, <i>Pinus</i> needle.	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 8: Apomixis and polyembryony- Definition, types Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 8. Female gametophyte: Polygonum (monosporic) type of Embryo sac Development (Permanent slides/photographs).	4	Theory DSE-1A: Economic Botany and Biotechnology Unit 10: Recombinant DNA Technique - Enzymes in Recombinant DNA Technology, Practical DSE-1A: Economic Botany and Biotechnology 3.Study through photographs: endosperm and embryo culture; micropropagation.	5
		2		2		2
Oct	Theory CCIA/GE-1: Biodiversity Unit 7: Gymnosperms- morphology, anatomy and reproduction of	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 8: Apomixis and polyembryony- practical applications.	4	Theory DSE-1A: Economic Botany and Biotechnology Unit 10: Recombinant DNA Technique - cloning vector, DNA library, PCR,	5

	<i>Pinus</i> . Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity 3. Identification of all above mentioned genera in theoretical syllabus from permanent slides	1	Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology 9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).	2	Practical DSE-1A: Economic Botany and Biotechnology 4. Basic Conception generation about molecular techniques: PCR, Blotting techniques	2
Nov	Theory CCIA/GE-1: Biodiversity morphology, anatomy and reproduction of <i>Pinus</i> . Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity Revise Practical Class	2	Theory CCIC/GE-3: Plant Anatomy and Embryology Doubt clearing class. Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology Revise Practical Class	1	Theory DSE-1A: Economic Botany and Biotechnology Unit 10: Recombinant DNA Technique - DNA Fingerprinting Practical DSE-1A: Economic Botany and Biotechnology 4. Basic Conception generation about molecular techniques: AGE and PAGE-Protocol	5
		1		1		2
Dec	Theory CCIA/GE-1: Biodiversity Unit 7: Gymnosperms- Doubt clearing class Practical (Generic: Physiology & Microbiology Hons.) CCIA/GE-1: Biodiversity Revise Practical Class	1	Theory CCIC/GE-3: Plant Anatomy and Embryology Doubt clearing class. Practical (Generic: Physiology & Microbiology Hons.) CCIC/GE-3: Plant Anatomy and Embryology Revise Practical Class	1	Theory DSE-1A: Economic Botany and Biotechnology Unit 10: Recombinant DNA Technique - application of Recombinant DNA Technique Practical DSE-1A: Economic Botany and Biotechnology Revise Practical Class	3
		1		1		1
	Sem-II (G)	No. of Lecture	Sem-IV (G)	No. of Lecture	Sem-VI (G)	No. of Lecture
Jan	Theory CCIB/GE-2: Plant Ecology and Taxonomy Unit 6 Plant taxonomy - Identification, Classification, Nomenclature. Practical (Generic: Physiology & Microbiology Hons.) CCIB/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Papilionaceae, Apocynaceae,	2	Theory CCID/GE-4 Plant Physiology and Metabolism: Unit 2: Mineral nutrition - Essential elements, macro and micronutrients; Criteria of essentiality of elements; Transport of ions across cell membrane, active and passive transport, carriers, channels and pumps Practical (Generic: Physiology & Microbiology Hons.) CCID/GE-4 Plant Physiology and Metabolism: 4. Demonstration of Hill reaction.	4	Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Unit 2: Cell as a unit of Life 20 The Cell Theory; Prokaryotic and eukaryotic cells; Cell size and shape; Eukaryotic Cell components. Unit 3: Linkage and Crossing over Linkage: concept & history, complete & incomplete linkage, bridges experiment, coupling & repulsion, recombination frequency, linkage maps based on two and three factor crosses. Crossing over: concept and significance, cytological proof of crossing over. Practical DSE-1B: Cell Biology, Genetics and Molecular Biology 2. Study of the photomicrographs of cell organelles	2
		2		2		4
Feb	Theory CCIB/GE-2: Plant Ecology and Taxonomy Unit 7 Identification - Functions of Herbarium, important herbaria and botanical gardens of the world and India; Documentation: Flora, Keys: single access and	4	Theory CCID/GE-4 Plant Physiology and Metabolism: Unit 2: Mineral nutrition - Essential elements, macro and micronutrients; Criteria of essentiality of elements; Role of essential elements; Transport of ions across cell membrane, active and passive transport, carriers,	4	Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Unit 5: Cell Organelles Mitochondria: Structure, marker enzymes, composition; Semiautonomous nature Practical	4

June	Theory CC1B/GE-2: Plant Ecology and Taxonomy Doubt clearing class Practical (Generic: Physiology & Microbiology Hons.) CC1B/GE-2: Plant Ecology and Taxonomy Revise Practical class	2	Theory CC1D/GE-4Plant Physiology and Metabolism: Unit 9: Plant response to light and temperature - Photoperiodism (SDP, LDP, Day neutral plants); Phytochrome (discovery and structure), red and farred light responses on photomorphogenesis; Vernalization. Practical (Generic: Physiology & Microbiology Hons.) CC1D/GE-4Plant Physiology and Metabolism: Revise Practical class	3	Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Unit 7: Cell Cycle Overview of Cell cycle, Mitosis and Meiosis; Molecular controls Practical DSE-1B: Cell Biology, Genetics and Molecular Biology Revise Practical class	6
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Anisban Paw.

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TEACHING PLAN OF SHAMIM ALAM
(Assistant Professor)
Botany (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	<p>Theory CC1A/GE-1: Biodiversity Unit 1: Microbes- Viruses – Discovery, general structure, replication (general account), DNA virus (T-phage) Practical(Bio General) CC1A/GE-1: Biodiversity 2. Dissection, mounting, . description, drawing, labeling and identification of the following genera: a. Pteridophytes: <i>Lycopodium</i> (stem), <i>Selaginella</i> (stem) and <i>Pteris</i> (leaflet)</p>	3	<p>Theory CC1C/GE-3: Plant Anatomy and Embryology Unit 5: Structural organization of flower Structure of anther and pollen Practical (Bio General) CC1C/GE-3: Plant Anatomy and Embryology 6. Adaptive anatomy: Xerophyte (<i>Nerium</i> leaf); Hydrophyte (<i>Hydrilla</i> stem). 7. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous – Through Permanent Slides/Photographs 8. Female gametophyte: <i>Polygonum</i> (monosporic) type of Embryo sac Development (Permanent slides/photographs). 9. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens). Theory SECI: Biofertilizers Unit 4: Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.</p>	2	<p>Theory DSE-1A: Economic Botany and Biotechnology Unit 1: Origin of Cultivated Plants-Concept of centres of origin, their importance with reference to Vavilov's work Unit 2: Cereals-Wheat - Origin, morphology, uses Practical DSE-1A: Economic Botany and Biotechnology 1. Study of economically important plants: Wheat through specimens and sections</p>	4
	<p>Theory CC1A/GE-1: Biodiversity Unit 1: Lytic and lysogenic cycle, RNA virus (TMV); Practical(Bio General) CC1A/GE-1: Biodiversity 2. Dissection, mounting, description, drawing, labeling and identification of the following genera: b. Gymnosperms: <i>Cycas</i> leaflet, <i>Pinus</i> needle.</p>	2	<p>Theory CC1C/GE-3: Plant Anatomy and Embryology Unit 5: Structure and types of ovules Practical (Bio General) CC1C/GE-3: Plant Anatomy and Embryology 6. Adaptive anatomy: Xerophyte (<i>Nerium</i> leaf); Hydrophyte (<i>Hydrilla</i> stem). Theory SECI: Biofertilizers Unit 4: Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.</p>	2	<p>Theory DSE-1A: Economic Botany and Biotechnology Unit 3: Legumes - General account with special reference to Gram and soybean Practical DSE-1A: Economic Botany and Biotechnology 1. Study of economically important plants: Gram through specimens and sections</p>	1
Aug	<p>Theory CC1A/GE-1: Biodiversity Unit 1: Economic importance; Bacteria – Discovery, General characteristics and cell structure Practical(Bio</p>	2	<p>Theory CC1C/GE-3: Plant Anatomy and Embryology Unit 5: Types of embryo sacs Practical (Bio General) CC1C/GE-3: Plant Anatomy and Embryology 7. Types of ovules: anatropous, orthotropous, circinotropous,</p>	2	<p>Theory DSE-1A: Economic Botany and Biotechnology Unit 4: Spices - General account with special reference to clove and black pepper (Botanical name, family, part used, morphology and uses)</p>	6

	CC1A/GE-1: Biodiversity Revise practical class	1				
	Sem-II (G)	No. of Lecture	Sem-IV (G)	No. of Lecture	Sem-VI (G)	No. of Lecture
Jan	<p>Theory CC1B/GE-2: Plant Ecology and Taxonomy Unit 5: Phytogeography - Principle biogeographical zones: Endemism Practical (Bio General) CC1B/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Papilionaceae,</p>	4	<p>Theory SEC2: Medicinal Botany Unit 1: History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Sciences; Definition and Scope-Ayurveda: History, origin, panchamahabhutas, saptadhatu and tridosha concepts</p>	5	<p>Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Unit 1: Techniques in Biology Principles of microscopy; Light Microscopy; Phase contrast microscopy</p>	1
Feb	<p>Theory CC1B/GE-2: Plant Ecology and Taxonomy Unit 10 Botanical nomenclature - Principles and rules (ICN); ranks and names; binominal system, typification, author citation, valid publication, rejection of names, principle of priority and its limitations. Practical (Bio General) CC1B/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Apocynaceae,</p>	6	<p>Theory SEC2: Medicinal Botany Unit 1: Rasayana, plants used in ayurvedic treatments, Siddha: Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine. Unani: History, concept: Umoo- e- tabiya, tumors treatments/ therapy, polyherbal formulations.</p>	5	<p>Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Unit 1: Fluorescence microscopy; Confocal microscopy; Sample Preparation for light microscopy</p>	1
Mar	<p>Theory CC1B/GE-2: Plant Ecology and Taxonomy Unit 11 Classification - Types of classification- artificial, natural and phylogenetic. Classification Bentham and Hooker (upto series), Takhtajan. Practical (Bio General) CC1B/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Labiatae</p>	6	<p>Theory SEC2: Medicinal Botany Unit 3: Ethnobotany and Folk medicines. Definition; Ethnobotany in India: Methods to study ethnobotany; Applications of Ethnobotany:</p>	5	<p>Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Unit 1: Electron microscopy (EM)- Scanning EM and Scanning Transmission EM (STEM)</p>	1
Apr	<p>Theory CC1B/GE-2: Plant Ecology and Taxonomy Unit 12 Biometrics,</p>	4	<p>Theory SEC2: Medicinal Botany Unit 3: National interacts, folk medicines of ethnobotany, ethnomedicine, ethnic</p>	5	<p>Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Unit 1: Sample Preparation</p>	1

	numerical taxonomy and cladistics - Characters; variations; OTUs, character weighting and coding; cluster analysis; phenograms, cladograms Practical (Bio General) CC1B/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Solanaceae.	2	communities of India. Application of natural products to certain diseases. Jaundice, cardiac, infertility, diabetics, Blood pressure and skin diseases.		for electron microscopy; X-ray diffraction analysis.	
May	Theory CC1B/GE-2: Plant Ecology and Taxonomy Doubt clearing class Practical (Bio General) CC1B/GE-2: Plant Ecology and Taxonomy 2. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).	2	Theory SEC2: Medicinal Botany Doubt clearing class	1	Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Doubt clearing class	1
	Theory CC1B/GE-2: Plant Ecology and Taxonomy Doubt clearing class Practical (Bio General) CC1B/GE-2: Plant Ecology and Taxonomy 3. Ecological adaptations of some species: <i>Nerium</i> leaf and <i>Vanda</i> root	2	Theory SEC2: Medicinal Botany Doubt clearing class	1	Theory DSE-1B: Cell Biology, Genetics and Molecular Biology Doubt clearing class	1
June						

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TEACHING PLAN OF MS. MOUSUMI MUKHERJEE

(State Aided College Teacher)


Botany (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	<p>Theory CCIA/GE-1: Biodiversity Unit 4: Introduction to Archegoniate-Unifying features of archegoniates, Transition to land habit, Alternation of generations.</p> <p>Practical(Bio General) CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: a. Algae: <i>Nostoc</i>, <i>Oedogonium</i>, <i>Chara</i>.</p>	2 3	<p>Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 1: Meristematic and permanent tissues Root and shoot apical meristems; Simple and complex tissues. Practical (Bio General) CCIC/GE-3: Plant Anatomy and Embryology 1. Study of meristems through permanent slides and photographs.</p>	4 2	NIL	NIL
Aug	<p>Theory CCIA/GE-1: Biodiversity Unit 5: Bryophytes-General characteristics, adaptations to land habit, Practical(Bio General) CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: b. Fungi: <i>Ascobolus</i>, <i>Puccinia</i> (Uredosorus and teleutosorus).</p>	2 3	<p>Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 1: Meristematic and permanent tissues Root and shoot apical meristems; Simple and complex tissues. Practical (Bio General) CCIC/GE-3: Plant Anatomy and Embryology 2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)</p>	4 2	NIL	NIL
Sept	<p>Theory CCIA/GE-1: Biodiversity Unit 5: Bryophytes-Classification, Range of thallus organization. Practical(Bio General) CCIA/GE-1: Biodiversity 1. Dissection (where necessary), mounting, description, drawing and identification of the following genera: c. Bryophytes: <i>Riccia</i>, <i>Marchantia</i> and <i>Funaria</i>.</p>	2 3	<p>Theory CCIC/GE-3: Plant Anatomy and Embryology Unit 2: Organs (4 Lectures) Structure of dicot and monocot root stem and leaf Practical (Bio General) CCIC/GE-3: Plant Anatomy and Embryology 3. Stem: Monocot: <i>Zea mays</i>; Dicot: <i>Helianthus</i>; Secondary: <i>Helianthus</i> (only Permanent slides).</p>	4 2	NIL	NIL
Oct	<p>Theory CCIA/GE-1: Biodiversity</p>		<p>Theory CCIC/GE-3: Plant Anatomy and Embryology</p>		NIL	NIL

	Unit 5: Bryophytes- Classification (up to family), morphology, anatomy and reproduction of <i>Marchantia</i> Practical(Bio General) CCIA/GE-1: Biodiversity 4. Microbiology: Sterilization techniques.; Simple staining of Bacteria with methylene blue/Carbol Fuchsin - Curd	2 2	Doubt clearing class Practical (Bio General) CCIC/GE-3: Plant Anatomy and Embryology 4. Root: Monocot: <i>Zea mays</i> ; Dicot: <i>Helianthus</i> ; Secondary: <i>Helianthus</i> (only Permanent slides).	2 2		
Nov	Theory CCIA/GE-1: Biodiversity Unit 5: Bryophytes- morphology, anatomy and reproduction of <i>Funaria</i> . Practical(Bio General) CCIA/GE-1: Biodiversity Revise Practical Class	2 1	Theory CCIC/GE-3: Plant Anatomy and Embryology Doubt clearing class Practical (Bio General) CCIC/GE-3: Plant Anatomy and Embryology 5. Leaf: Dicot and Monocot leaf (only Permanent slides)	2 2	NIL	NIL
Dec	Theory CCIA/GE-1: Biodiversity Unit 5: Bryophytes- Ecology and economic importance of bryophytes with special mention of <i>Sphagnum</i> . Practical(Bio General) CCIA/GE-1: Biodiversity Revise Practical Class	2 1	Theory CCIC/GE-3: Plant Anatomy and Embryology Doubt clearing class Practical (Bio General) CCIC/GE-3: Plant Anatomy and Embryology Revise Practical Class	2 1	NIL	NIL
	Sem-II (G)	No. of Lecture	Sem-IV (G)	No. of Lecture	Sem-VI (G)	No. of Lecture
Jan	Theory CCIB/GE-2: Plant Ecology and Taxonomy Unit 1: Introduction - Plant Ecology and Taxonomy Practical (Bio General) CCIB/GE-2: Plant Ecology and Taxonomy 1. Study and identification of the following families: Malvaceae	2 2	Theory CCID/GE-4 Plant Physiology and Metabolism: Unit 5: Respiration - Glycolysis, anaerobic respiration Practical (Generic- Zoology Hons. & Bio General) CCID/GE-4 Plant Physiology and Metabolism: 1. Determination of osmotic potential of plant cell sap by plasmolytic method.	2 2	NIL	NIL
Feb	Theory CCIB/GE-2: Plant Ecology and Taxonomy Unit 2: Ecological factors -Soil: Origin, formation,	5	Theory CCID/GE-4 Plant Physiology and Metabolism: Unit 5: Respiration - TCA cycle; Oxidative phosphorylation Practical (Generic- Zoology Hons. & Bio General)	2	NIL	NIL

	Ecology and Taxonomy 3. Ecological adaptations of some species: Phyllode of <i>Acacia auriculiformis</i>	2				
June	Theory CC1B/GE-2: Plant Ecology and Taxonomy. Unit 4: Ecosystem - Structure; energy flow trophic organisation; Food chains and food webs, Ecological pyramids production and productivity; Biogeochemical cycling; Cycling of carbon, nitrogen and Phosphorous Practical (Bio General) CC1B/GE-2: Plant Ecology and Taxonomy Revise practical class	4	Theory CC1D/GE-4Plant Physiology and Metabolism: Doubt clearing class Practical (Generic Hons.& Bio General) CC1D/GE-4Plant Physiology and Metabolism: Revise practical class	1 1		NIL NIL
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**DEPARTMENT OF BOTANY
SURI VIDYASAGAR COLLEGE**

TEACHING PLAN OF DR. KALYAN KUMAR BHATTACHARYYA

(Associate Professor)

Botany (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (II)	No. of Lecture	Sem-III (II)	No. of Lecture	Sem-V (II)	No. of Lecture
Jul	Theory CC1: Microbiology & Phycology Unit 6: Chlorophyta and Charophyta Practical CC2: Archegoniate Cycas	3 2	Theory CC7: Economic Botany Unit 7: Sources of oils and fats Practical CC7: Economic Botany 1. Cereals: Rice(habit sketch, study of paddy and grain, starch grains, micro-chemical tests). Theory SECI: Agricultural Botany Unit: 1 Plant physiology a) Plant water relation, stomatal regulation, mineral nutrition, N ₂ cycle.	5 2 2	Theory CC11: Plant Physiology Unit 1: Plant-water relations Unit 2: Mineral nutrition Practical CC11: Plant Physiology Unit 1: Determination of osmotic potential of plant cell sap by plasmolytic method.	10 8 2
			Practical CC6: Plant systematics 2. Field visit Theory CC7: Economic Botany Unit 7: Sources of oils and fats Practical CC7: Economic Botany 2. Legumes: Soybean, Groundnut, (habit, fruit, seed structure, micro-chemical tests). Theory SECI: Agricultural Botany Unit: 1 Plant physiology a) Plant water relation, stomatal regulation, mineral nutrition, N ₂ cycle.		Theory CC11: Plant Physiology Unit 3: Nutrient Uptake Unit 4: Translocation in the phloem Practical CC11: Plant Physiology Unit 2: Determination of water potential of given tissue (potato tuber) by weight method. Unit 3: Study of the effect of Humidity and light on the rate of transpiration in excised twig/leaf.	
Aug	Theory CC1: Microbiology & Phycology Unit 6: Chlorophyta and Charophyta Practical CC2: Archegoniate Cycas	3 2	Theory CC7: Economic Botany Unit 8: Natural Rubber Practical CC7: Economic Botany 3. Sources of sugars and starches: Sugarcane (habit sketch; cane juice-micro-chemical tests), Potato(habit sketch, tuber morphology, T.S. tuber to show localization of starch grains, w.m. starch grains, micro-chemical tests). 4. Spices: Black pepper, Fennel and Clove (Macromorphology). Theory SECI: Agricultural Botany Unit: 1 Plant physiology b) Co ₂ fixation mechanism in C ₂ ,C ₃ ,C ₄ and CAM plants. Transport of water and photosynthate.	3 2 1 2	Theory CC11: Plant Physiology Unit 5: Plant growth regulators Practical CC11: Plant Physiology Unit 4: Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a mesophyte and xerophyte.	14 2
			Theory CC7: Economic Botany Unit 9: Drug-yielding plants Practical CC7: Economic Botany 5. Beverages: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans). Theory SECI: Agricultural Botany Unit: 1 Plant physiology b) Co ₂ fixation mechanism in		Theory CC12: Plant Metabolism Unit 1: Concept of metabolism Unit 2: Carbon assimilation Practical CC12: Plant Metabolism Unit 1: Chemical separation of photosynthetic pigments.	
Sept	Theory CC1: Microbiology & Phycology Unit 6: Chlorophyta and Charophyta Practical CC2: Archegoniate Pinus	4 2	Theory CC7: Economic Botany Unit 9: Drug-yielding plants Practical CC7: Economic Botany 5. Beverages: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans). Theory SECI: Agricultural Botany Unit: 1 Plant physiology b) Co ₂ fixation mechanism in	4 2 2	Theory CC12: Plant Metabolism Unit 1: Concept of metabolism Unit 2: Carbon assimilation Practical CC12: Plant Metabolism Unit 1: Chemical separation of photosynthetic pigments.	6 4 2
			Theory CC7: Economic Botany Unit 9: Drug-yielding plants Practical CC7: Economic Botany 5. Beverages: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans). Theory SECI: Agricultural Botany Unit: 1 Plant physiology b) Co ₂ fixation mechanism in		Theory CC12: Plant Metabolism Unit 1: Concept of metabolism Unit 2: Carbon assimilation Practical CC12: Plant Metabolism Unit 1: Chemical separation of photosynthetic pigments.	
Oct	Theory CC1: Microbiology & Phycology Unit 7: Phaeophyta and Rhodophyta Practical CC2: Archegoniate Pinus	4 2	Theory CC7: Economic Botany Unit 9: Drug-yielding plants Practical CC7: Economic Botany 5. Beverages: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans). Theory SECI: Agricultural Botany Unit: 1 Plant physiology b) Co ₂ fixation mechanism in	4 2 2	Theory CC12: Plant Metabolism Unit 1: Concept of metabolism Unit 2: Carbon assimilation Practical CC12: Plant Metabolism Unit 1: Chemical separation of photosynthetic pigments.	6 4 2
			Theory CC7: Economic Botany Unit 9: Drug-yielding plants Practical CC7: Economic Botany 5. Beverages: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans). Theory SECI: Agricultural Botany Unit: 1 Plant physiology b) Co ₂ fixation mechanism in		Theory CC12: Plant Metabolism Unit 1: Concept of metabolism Unit 2: Carbon assimilation Practical CC12: Plant Metabolism Unit 1: Chemical separation of photosynthetic pigments.	

			C2,C3,C4 and CAM plants. Transport of water and photosynthate.			
Nov	Theory CC1: Microbiology & Phycology Unit 7: Phaeophyta and Rhodophyta Practical CC2: Archegoniate <i>Gnetum</i>	4 2	Theory CC7: Economic Botany Unit 9: Drug-yielding plants Practical CC7: Economic Botany 6. Sources of oils and fats: Coconut-T.S. nut (photograph), Mustard-plant specimen, seeds; tests for fats in crushed seeds. Theory SECI: Agricultural Botany Unit: 1 Plant physiology c) Plant development Phytohormones: IAA, GA, Cytokinin, ABA, Ethylene, their role and regulation in plant system d) Physiology of flowering and seed development	4 2 2	Theory CC12: Plant Metabolism Unit 2: Carbon assimilation Unit 3: Carbohydrate metabolism Practical CC12: Plant Metabolism Unit 2: To study the effect of light intensity on the rate of photosynthesis. Unit 3: Effect of carbon dioxide on the rate of photosynthesis.	8 2 2 2
Dec	Theory CC1: Microbiology & Phycology. Doubt clearing class Practical CC2: Archegoniate <i>Gnetum</i>	2 2	Theory CC7: Economic Botany Unit 11: Fibers Practical CC7: Economic Botany 7. Essential oil-yielding plants: Habit sketch of Rosa and Eucalyptus-specimens/photographs. Theory SECI: Agricultural Botany Unit: 1 Plant physiology c) Plant development Phytohormones: IAA, GA, Cytokinin, ABA, Ethylene, their role and regulation in plant system d) Physiology of flowering and seed development	4 2 1	Theory CC12: Plant Metabolism Unit 4: Carbon Oxidation Practical CC12: Plant Metabolism Unit 4: To compare the rate of respiration in different parts of a plant.	10 2
Jan	Sem-II (II)	No. of Lecture	Sem-IV (II)	No. of Lecture	Sem-VI (II)	No. of Lecture
	Theory CC3: Mycology and Phytopathology Unit 5: Allied Fungi Practical CC3: Mycology and Phytopathology 2 Identification	3 2	Theory CC9: Biomolecules and Cell Biology Unit 1: Biomolecules Practical CC9: Biomolecules and Cell Biology Unit 1: Qualitative tests for carbohydrates, reducing sugars, non-reducing sugars, lipids and proteins.	6 2	Theory DSE4: Industrial and Environmental Microbiology Unit 1: Scope of microbes in industry and environment Practical DSE4: Industrial and Environmental Microbiology Unit 4: Assessment of microbiological quality of water-protocol	3 2
Feb	Theory CC3: Mycology and Phytopathology Unit 6: Oomycota	4	Theory CC9: Biomolecules and Cell Biology Unit 1: Biomolecules Practical CC9: Biomolecules and Cell Biology Unit 2: Study of plant cell structure with the help of epidermal peel mount of Onion/Rhoco/Crimum.	6 2	Theory DSE4: Industrial and Environmental Microbiology Unit 1: Scope of microbes in industry and environment Practical DSE4: Industrial and Environmental Microbiology Unit 4: Assessment of microbiological quality of water-protocol	3 2
Mar	Theory CC3: Mycology and Phytopathology Unit 7: Symbiotic associations	4	Theory CC9: Biomolecules and Cell Biology Unit 1: Biomolecules Practical CC9: Biomolecules and Cell	6	Theory DSE4: Industrial and Environmental Microbiology Unit 7: Microbes in agriculture and remediation	3

			Biology Unit 3: Demonstration of the phenomenon of protoplasmic streaming in Hydrilla leaf.	2	of contaminated soils	
Apr	Theory CC3: Mycology and Phytopathology Unit 8: Applied Mycology	5	Theory CC9: Biomolecules and Cell Biology Unit 1: Biomolecules Unit 2: Bioenergetics Practical CC9: Biomolecules and Cell Biology Unit 4: Measurement of cell size by the technique of micrometry	2 4 2	Theory DSE4: Industrial and Environmental Microbiology Unit 7: Microbes in agriculture and remediation of contaminated soils Practical DSE4: Industrial and Environmental Microbiology Unit 5: A visit to any educational institute/industry to see an industrial fermenter, and other downstream processing operations.	3 1
May	Theory CC3: Mycology and Phytopathology Unit 8: Applied Mycology Practical CC3: Mycology and Phytopathology 2 Identification	5 1	Theory CC9: Biomolecules and Cell Biology Unit 3: Enzymes Practical CC9: Biomolecules and Cell Biology Unit 6: Study the phenomenon of plasmolysis and deplasmolysis.	6 2	Theory DSE4: Industrial and Environmental Microbiology Unit 7: Microbes in agriculture and remediation of contaminated soils	2
June	Theory CC3: Mycology and Phytopathology Doubt clearing class Practical CC3: Mycology and Phytopathology 2 Identification	2 1	Theory CC9: Biomolecules and Cell Biology Doubt clearing class Practical CC9: Biomolecules and Cell Biology Unit 7: Study the effect of organic solvent and temperature on membrane permeability.	2 2	Theory DSE4: Industrial and Environmental Microbiology Practical Doubt clearing class DSE4: Industrial and Environmental Microbiology Doubt clearing class	1 1

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TEACHING PLAN OF DR. HEMANTA SAHA

(Assistant Professor)

Botany (Honours) (2021-22) (July 2021 - June 2022)

Month	Sem-I (H)	No. of Lectures	Sem-III (H)	No. of Lectures	Sem-V (H)	No. of Lectures
Jul	Theory CC2: Archaeopteryx Unit 4 Pteridophytes- General Characteristics, Classification, Fertilis- and plant	4	Practical CC2: Plant Ecology and Phytogeography 1. Study of instruments used to measure microclimatic variables Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer-hygrometer, sun gauge and lux meter 2. Determination of pH of various soil and water samples (pH meter, universal indicator and pH paper) Theory CC3: Plant systematics Unit 2: Phylogeny of Angiosperms	2 1 2	Theory Unit 1: Reproductive Biology of Angiosperms Unit 4: Pollination and Embryosac Practical Unit 1: Reproductive Biology of Angiosperms Unit 1: Anther	4 2
Aug	Theory CC2: Archaeopteryx Unit 2: Type Studies Pteridophytes- Lycopodium, Selaginella	4	Practical CC2: Plant Ecology and Phytogeography 1. Analysis to determine, identify, extract, separate, organic matter and free alkaloids from leaf and analyze by spot test with 2. Determination of organic matter of different soil samples by Walkley & Black rapid titration method Theory CC3: Plant systematics Unit 2: Phylogeny of Angiosperms	2 2 2	Theory Unit 1: Reproductive Biology of Angiosperms Unit 2: Self incompatibility Practical Unit 1: Reproductive Biology of Angiosperms Unit 1: Anther	4 2
Sept	Theory CC2: Archaeopteryx Unit 2: Type Studies Pteridophytes Epiphyllum, Ferns	4	Practical CC3: Plant Ecology and Phytogeography 1. Determination of functional groups of some samples from palaeobot and neobotanical sources Theory CC3: Plant systematics Unit 2: Phylogeny of Angiosperms Practical CC3: Plant systematics 1. Study of vegetative and floral characters from the locally available plants of the following families Dioscoreaceae, Solanaceae Euphorbiaceae	2 2 2	Theory Unit 1: Reproductive Biology of Angiosperms Unit 2: Self incompatibility Practical Unit 1: Reproductive Biology of Angiosperms Unit 2: Pollen grains	4 2
Oct	Theory CC2: Archaeopteryx Unit 3: Type Studies Pteridophytes- Marsilea, Azolla, Agrostis	4	Theory CC3: Plant systematics Unit 2: Phylogeny of Angiosperms Practical CC3: Plant systematics 1. Study of vegetative and floral characters from the locally available plants of the following families Dioscoreaceae, Solanaceae, Euphorbiaceae Cucurbitaceae	2 4	Theory Unit 1: Reproductive Biology of Angiosperms Unit 4: Embryo, Endosperm and Seed Practical Unit 1: Reproductive Biology of Angiosperms Unit 2: Pollen grains	4 2
Nov	Theory CC2: Archaeopteryx Unit 4: Type Studies Pteridophytes- Heterosporous moss Moss, Pollen theory	4	Theory CC3: Plant systematics Unit 2: Phylogeny of Angiosperms Practical CC3: Plant systematics 1. Study of vegetative and floral characters from the locally available plants of the following families Dioscoreaceae, Solanaceae, Euphorbiaceae Cucurbitaceae	2 4	Theory Unit 1: Reproductive Biology of Angiosperms Unit 4: Embryo, Endosperm and Seed Practical Unit 1: Reproductive Biology of Angiosperms Unit 3: Ovary	4 2
Dec	Theory CC2: Archaeopteryx Unit 5: Type	4	Theory CC3: Plant systematics Unit 2: Phylogeny of Angiosperms	2	Theory Unit 1: Reproductive Biology of Angiosperms	2

	Studies- Pteridophytes- Stellar evolution, Ecological & Economic importance		Practical CC6: Plant systematics 1. Study of vegetative and floral characters from the locally available plants of the following families Dicotyledons: Solanaceae 2. Field visit	2 1	Units 7: Polyembryony and apomixis Practical DSE1: Reproductive Biology of Angiosperms Unit 3: Ovule:	6 2
Jan	Sem-II (H)	No. of Lecture	Sem-IV (H)	No. of Lecture	Sem-VI (H)	No. of Lecture
	Theory CC4: Morphology & Anatomy of Angiosperms Unit 1: Introduction and scope of Plant Anatomy Unit 2: Structure and Development of Plant Body CC4: Morphology & Anatomy of Angiosperms 1. Study of anatomical details through permanent slides/temporary stain mounts/ macerations/museum specimens with the help of suitable examples.	1 3 2	Theory CC8: Palaeobotany & Palynology Unit 1: Introduction, importance of Palaeobotany. Practical CC8: Palaeobotany & Palynology Unit 2: Pollen morphological studies of Impatiens and Hibiscus pollens form prepared slides	5 2	Theory CC13: Genetics & Plant Breeding Unit 9: Methods of crop improvement	2
Feb	Theory CC4: Morphology & Anatomy of Angiosperms Unit 3: Tissues Practical CC4: Morphology & Anatomy of Angiosperms 1. Study of anatomical details through permanent slides/temporary stain mounts/ macerations/museum specimens with the help of suitable examples.	5 2	Theory CC8: Palaeobotany & Palynology Unit 2: Definition of fossil, process of fossilization, types of fossils on the basis of their preservation; concept of Form Genus Practical CC8: Palaeobotany & Palynology Unit 2: Pollen morphological studies of Impatiens and Hibiscus pollens form prepared slides	15 2	Theory CC13: Genetics & Plant Breeding Unit 9: Methods of crop improvement	2
Mar	Theory CC4: Morphology & Anatomy of Angiosperms Unit 3: Tissues Practical CC4: Morphology & Anatomy of Angiosperms 2. Study of the secondary structures of stem of the following genera: Bignonia, Dracaena (Cordyline), Boerhaavia and Strychnos.	5 2	Theory CC8: Palaeobotany & Palynology Unit 5: Microsporogenesis; Spore/pollen morphology with reference to polarity, size, shape, symmetry, aperture and sculpture	15	Theory CC13: Genetics & Plant Breeding Unit 10: Inbreeding depression and heterosis	3
Apr	Theory CC4: Morphology & Anatomy of Angiosperms Unit 4: Apical meristems Practical CC4: Morphology	5	Theory CC8: Palaeobotany & Palynology Unit 6: Organization of orthotropous ovule, types of ovules; megasporogenesis.	10	Theory CC13: Genetics & Plant Breeding Unit 10: Inbreeding depression and heterosis	2

	& Anatomy of Angiosperms 2. Study of the secondary structures of stem of the following genera: <i>Bignonia</i> , <i>Dracaena</i> (Cordyline), <i>Boerhaavia</i> and <i>Strachnos</i> .	2				
May	Theory CC4: Morphology & Anatomy of Angiosperms Unit 4: Apical meristems Practical CC4: Morphology & Anatomy of Angiosperms 3. Xylem: Tracheary elements-tracheids, vessel elements; thickenings; perforation plates; xylem fibres. (from permanent slides)	5 2	Theory CC8: Palaeobotany & Palynology Unit 7: Pollination: Types and contrivances.	10	Theory CC13: Genetics & Plant Breeding Unit 11: Crop improvement and breeding	2
June	Theory CC4: Morphology & Anatomy of Angiosperms Unit 4: Apical meristems Practical CC4: Morphology & Anatomy of Angiosperms 3. Xylem: Tracheary elements-tracheids, vessel elements; thickenings; perforation plates; xylem fibres. (from permanent slides)	4 2	Theory CC8: Palaeobotany & Palynology Doubt clearing class Practical CC8: Palaeobotany & Palynology Revise Practical Class	2 2	Theory CC13: Genetics & Plant Breeding Doubt clearing class	1

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TEACHING PLAN OF DR. SANDIPAN CHATTERJEE

(Assistant Professor)

Botany (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC1: Microbiology & Phycology Unit 1: Introduction to microbial world Practical CC1: Microbiology & Phycology Aseptic method	8	Theory CC5: Plant Ecology and Phytogeography Unit 5: Ecosystem Practical CC6: Plant systematics Monocotyledons: Liliaceae	8	Theory CC11: Plant Physiology Unit 6: Physiology of flowering Practical CC11: Plant Physiology Unit 5: To study the phenomenon of seed dormancy (TTZ).	6
		2	Theory SECI: Agricultural Botany Unit: 2 Organic farming a) Microbes used as bio fertilizer	2		2
Aug	Theory: CC1: Microbiology & Phycology Unit 2: Viruses Practical CC1: Microbiology & Phycology Temporary preparation of <i>Nostoc</i> , <i>Scytonema</i> ,	4	Theory CC5: Plant Ecology and Phytogeography Unit 6: Population ecology Practical CC6: Plant systematics Monocotyledons: Poaceae.	4	Theory CC11: Plant Physiology Unit 7: Phytochrome, crytochromes and phototropins Practical CC11: Plant Physiology Unit 6: Demonstration on the effect of different concentrations of IAA on Plant (Locally Available) coleoptile elongation (IAA Bioassay).	6
		2	Theory SECI: Agricultural Botany Unit: 2 Organic farming b) Cyanobacteria isolation and mass multiplication	2	Unit 7: To study the induction of amylase activity in germinating grains.	4
Sept	Theory: CC1: Microbiology & Phycology Unit 2: Viruses Practical CC1: Microbiology & Phycology Aseptic method Temporary preparation of <i>Zygnema</i> , <i>Oedogonium</i>	4	Theory CC5: Plant Ecology and Phytogeography Unit 7: Plant communities Practical CC6: Plant systematics Monocotyledons: Liliaceae,	8	Theory CC12: Plant Metabolism Unit 5: ATP-Synthesis Practical CC12: Plant Metabolism Unit 5: To demonstrate activity of Nitrate reductase in germinating leaves of different plant sources.	8
		2	Theory SECI: Agricultural Botany Unit: 2 Organic farming c) Mycorrhizal association in Agriculture	2	Unit 6: To study the activity of lipases in germinating oil-seeds and demonstrate mobilization of lipids during germination.	2
Oct	Theory: CC1: Microbiology & Phycology Unit 3: Bacteria Practical CC1: Microbiology & Phycology Aseptic method Temporary preparation of <i>Chara</i> and <i>Vaucheria</i>	7	Theory CC5: Plant Ecology and Phytogeography Unit 8: Functional aspects of ecosystem Practical CC6: Plant systematics Monocotyledons: Liliaceae	8	Theory CC12: Plant Metabolism Unit 6: Lipid metabolism Practical CC12: Plant Metabolism Unit 7: Demonstration of absorption spectrum of photosynthetic pigments.	8
		2	Theory SECI: Agricultural Botany Unit: 2 Organic farming Special class	2		2
Nov	Theory: CC1: Microbiology & Phycology Unit 3: Bacteria Practical CC1: Microbiology & Phycology Practice classes	7	Theory CC6: Plant systematics Unit 3: Botanical nomenclature Practical CC6: Plant systematics Monocotyledons: Poaceae.	7	Practical CC11: Plant Physiology Practice Classes	2
		2	Theory SECI: Agricultural Botany Unit: 2 Organic farming Doubt clearing session	2	Theory CC12: Plant Metabolism Unit 7: Nitrogen metabolism	8
Dec	Theory: CC1: Microbiology & Phycology Special classes + doubt clearing+ discussions Practical	4	Theory CC6: Plant systematics Unit 3: Botanical nomenclature Practical CC6: Plant systematics 2. Field visit	3	Theory CC12: Plant Metabolism Unit 8: Mechanisms of signal transduction Practical CC12: Plant Metabolism	4
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	CC1: Microbiology & Phycology Practice classes	2	Theory SECI: Agricultural Botany Unit: 2 Organic farming Question Answer session	1	Special Classes	1
	Sem-II (H)	No. of Lecture	Sem-IV (H)	No. of Lecture	Sem-VI (H)	No. of Lecture
Jan	Theory CC3: Mycology and Phytopathology Unit 1: Introduction to true fungi Practical CC3: Mycology and Phytopathology 1 Study of the following genera and their identification: <i>Rhizopus</i>	6 2	Theory CC10: Molecular Biology Unit 1: Nucleic acids: Carriers of genetic information Unit 2. The Structures of DNA and RNA / Genetic Material Practical CC10: Molecular Biology Unit 1: Preparation of LB medium and raising E. coli. Theory SEC2: Biofertilizers Unit 1: General account about the microbes used as biofertilizer - <i>Rhizobium</i> -isolation, Identification, mass multiplication, carrier-based inoculants, Actinorrhizal symbiosis.	4 5 2 2	Theory CC13: Genetics & Plant Breeding Unit 5: Gene mutations Practical CC14: Plant Biotechnology Unit 4: Study of methods of gene transfer through photographs: <i>Agrobacterium</i> -mediated, direct gene transfer by electroporation, microinjection, microprojectile bombardment. Theory DSE4: Industrial and Environmental Microbiology Unit 2: Bioreactors/Fermenters and fermentation processes Practical DSE4: Industrial and Environmental Microbiology Unit 1: Principles and functioning of instalments in microbiology laboratory	5 2 12 2
	Theory CC3: Mycology and Phytopathology Unit 2: Chytridiomycota and Zygomycota Practical CC3: Mycology and Phytopathology 1 Study of the following genera and their identification: <i>Talaromyces</i>	5 2	Theory CC10: Molecular Biology Unit 2. The Structures of DNA and RNA / Genetic Material Unit 3. The replication of DNA Practical CC10: Molecular Biology Unit 2: Study of genomic DNA from E. coli through photographs Theory SEC2: Biofertilizers Unit 1: General account about the microbes used as biofertilizer - <i>Rhizobium</i> -isolation, Identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.	5 5 2 2	Theory CC13: Genetics & Plant Breeding Unit 6: Fine structure of gene Unit 7. Population and Evolutionary Genetics Practical CC14: Plant Biotechnology Unit 4: Study of methods of gene transfer through photographs: <i>Agrobacterium</i> -mediated, direct gene transfer by electroporation, microinjection, microprojectile bombardment. Theory DSE4: Industrial and Environmental Microbiology Unit 3: Microbial production of industrial products Practical DSE4: Industrial and Environmental Microbiology Unit 1: Principles and functioning of instalments in microbiology laboratory	2 4 2 12 2
Mar	Theory CC3: Mycology and Phytopathology Unit 3: Ascomycota Practical CC3: Mycology and Phytopathology 1 Study of the following genera and their identification: <i>Alternaria</i>	4 2	Theory CC10: Molecular Biology Unit 3. The replication of DNA Unit 6. Processing and modification of RNA Practical CC10: Molecular Biology Unit 3: Study of DNA replication mechanisms through photographs (Rolling circle, Theta replication and semi-discontinuous replication). Theory SEC2: Biofertilizers Unit 2: <i>Azospirillum</i> isolation and	5 4 2 4	Theory CC14: Plant Biotechnology Unit 2: Recombinant DNA technology Practical CC14: Plant Biotechnology Unit 5: Study of steps of genetic engineering for production of Bt cotton, Golden rice, through photographs. Theory DSE4: Industrial and Environmental	12 2 8

			mass multiplication -carrier based inoculant, associative effect of different microorganisms. <i>Azotobacter</i> : classification, characteristics - crop response to <i>Azotobacter</i> inoculum, maintenance and mass multiplication		Microbiology Unit 4: Microbial enzymes of industrial interest and enzyme immobilization Practical DSE4: Industrial and Environmental Microbiology Unit 2: Study different parts of fermenter as demonstration by photograph	2
Apr	Theory CC3: Mycology and Phytopathology Unit 3: Ascomycota Practical CC3: Mycology and Phytopathology 1 Study of the following genera and their identification: <i>Ascombolus</i>	4	Theory CC10: Molecular Biology Unit 6: Processing and modification of RNA Unit 7: Translation Practical CC10: Molecular Biology Unit 4: Study of structures of prokaryotic RNA polymerase and eukaryotic RNA polymerase II through photographs.	4	Theory CC14: Plant Biotechnology Unit 3: Gene Cloning Practical CC14: Plant Biotechnology Unit 5: Study of steps of genetic engineering for production of Bt cotton, Golden rice, through photographs.	10
		2	Theory SEC2: Biofertilizers Unit 2: <i>Azospirillum</i> : isolation and mass multiplication -carrier based inoculant, associative effect of different microorganisms. <i>Azotobacter</i> : classification, characteristics - crop response to <i>Azotobacter</i> inoculum, maintenance and mass multiplication	2	Theory DSE4: Industrial and Environmental Microbiology Unit 5: Microbes and quality of environment Practical DSE4: Industrial and Environmental Microbiology Unit 2: Study different parts of fermenter as demonstration by photograph	6
				4	Theory CC14: Plant Biotechnology Unit 4: Methods of gene transfer Unit 5: Applications of Biotechnology Practical CC14: Plant Biotechnology Unit 6: Isolation of plasmid DNA – Protocol	8
				2	Theory DSE4: Industrial and Environmental Microbiology Unit 6: Microbial flora of water Practical DSE4: Industrial and Environmental Microbiology Unit 3: Hands on sterilization techniques and preparation of culture media.	6
May	Theory CC3: Mycology and Phytopathology Unit 4: Basidiomycota Practical CC3: Mycology and Phytopathology 1 Study of the following genera and their identification: <i>Agaricus</i>	6	Theory CC10: Molecular Biology Unit 7: Translation Practical CC10: Molecular Biology Repeat practical Class Theory SEC2: Biofertilizers Unit 5: Organic farming	4	Theory DSE4: Industrial and Environmental Microbiology Unit 6: Microbial flora of water Practical DSE4: Industrial and Environmental Microbiology Unit 3: Hands on sterilization techniques and preparation of culture media.	2
		2		2	Theory CC14: Plant Biotechnology Unit 5: Applications of Biotechnology Practical CC14: Plant Biotechnology Repeat practical Class	8
				3	Theory DSE4: Industrial and Environmental Microbiology Unit 6: Microbial flora of water Practical DSE4: Industrial and Environmental Microbiology Unit 3: Hands on sterilization techniques and preparation of culture media.	2
June	Theory CC3: Mycology and Phytopathology Unit 4. Basidiomycota Practical CC3: Mycology and Phytopathology 1 Study of the following genera and their identification: <i>Polyporus</i>	2	Theory CC10: Molecular Biology Special class Practical CC10: Molecular Biology Repeat practical Class Theory SEC2: Biofertilizers Unit 5: Organic farming	2	Theory CC14: Plant Biotechnology Unit 5: Applications of Biotechnology Practical CC14: Plant Biotechnology Repeat practical Class	6
		2		1	Theory DSE4: Industrial and Environmental Microbiology Unit 6: Microbial flora of water Practical DSE4: Industrial and Environmental Microbiology Unit 3: Hands on sterilization techniques and preparation of culture media.	2
				3	Theory DSE4: Industrial and Environmental Microbiology Unit 3: Hands on sterilization techniques and preparation of culture media.	8
						2

Shetty



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TEACHING PLAN OF DR. ANIRBAN PAUL
(Assistant Professor)
Botany (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory CC1: Microbiology & Phycology Unit 4: Algae- General characters, range of thallus structure, cellular organization CC2: Archegoniate Unit6:Gymnosperms- General characteristics	2 2	Theory CC6: Plant systematics Unit 1: Significance of Plant systematics Practical CC6: Plant systematics 2. Field visit 3. Herbarium Preparation Theory SEC1: Agricultural Botany Unit:3 Plant breeding, Tissue culture and Biotechnology a) Mass selection and pure line selection, heterosis breeding	6 2 3	Theory DSE1: Natural Resource Management Unit 1: Natural resources Practical DSE1: Natural Resource Management Unit 1: Study of solid waste generated by a domestic system (biodegradable and non-biodegradable) and its impact on land degradation	2 2
Aug	Theory CC1: Microbiology & Phycology Unit 4: Algae- Endosymbiotic theory, Fritsch' classification (1935) CC2: Archegoniate Unit6:Gymnosperms- Classifications of Stewart & Rothwell (1993)	1 2	Theory CC6: Plant systematics Unit 1: Significance of Plant systematics Practical CC6: Plant systematics 2. Field visit 3. Herbarium Preparation Theory SEC1: Agricultural Botany Unit:3 Plant breeding, Tissue culture and Biotechnology b) Marker assisted breeding for agronomic crops	6 2 2	Theory DSE1: Natural Resource Management Unit 2: Sustainable utilization Practical DSE1: Natural Resource Management Unit 2: Collection of data on forest cover of specific area.	8 2
Sept	Theory CC1: Microbiology & Phycology Unit 4: Algae- Evolutionary classification of Lee (2008) CC2: Archegoniate Unit6:Gymnosperms- <i>Cycas</i> sp.	1 4	Theory CC6: Plant systematics Unit 2: Taxonomic hierarchy Practical CC6: Plant systematics 2. Field visit 3. Herbarium Preparation Theory SEC1: Agricultural Botany Unit:3 Plant breeding, Tissue culture and Biotechnology c) Micro propagation techniques, different organ culture	6 2 2	Theory DSE1: Natural Resource Management Unit 7: Energy Renewable and non-renewable sources of energy Practical DSE1: Natural Resource Management Unit 3: Measurement of dominance of woody species by DBH (diameter at breast height) method.	6 2
Oct	Theory CC1: Microbiology & Phycology Unit 4: Algae- Contributions of Phycologist CC2: Archegoniate Unit6:Gymnosperms- <i>Pinus</i> sp.	1 4	Practical CC6: Plant systematics 2. Field visit 3. Herbarium Preparation Theory CC7: Economic Botany Unit 1: Origin of Cultivated Plants Theory SEC1: Agricultural Botany Unit:3 Plant breeding, Tissue culture and Biotechnology d) Agrobacterium mediated transformation, vector mediated transformation, Biolistics	2 3 2	Theory DSE1: Natural Resource Management Unit 8: Contemporary practices in resource management EIA, GIS, Participatory Resource Appraisal, Ecological Footprint with emphasis on carbon footprint, Resource Accounting, Waste management. Practical DSE1: Natural Resource Management Revise Practical classes	8 2
Nov	Theory CC1: Microbiology & Phycology Unit 4: Algae- Roll of algae in environment, agriculture, biotechnology & industry CC2: Archegoniate Unit6:Gymnosperms-	1 4	Practical CC6: Plant systematics 2. Field visit 3. Herbarium Preparation Theory CC7: Economic Botany Unit 1: Origin of Cultivated Plants Theory	2 3	Theory DSE1: Natural Resource Management Unit 9: National and international efforts in resource management and conservation Practical DSE1: Natural Resource	4

	<i>Gnetum</i> sp.		SECI: Agricultural Botany Unit:3 Plant breeding, Tissue culture and Biotechnology e) GMO, transgenic plant, patent.	2	Management Revise Practical classes	1
Dec	Theory CC2: Archegoniate Unit6:Gymnosperms- Ecological and economic importance	2	Theory CC6: Plant systematics Doubt clearing session Theory CC7: Economic Botany Unit 10: Timber plants Theory SECI: Agricultural Botany Unit:3 Plant breeding, Tissue culture and Biotechnology f) Molecular markers used in Agriculture	1 3 2	Theory DSE1: Natural Resource Management Doubt clearing class Practical DSE1: Natural Resource Management Revise Practical classes	1 2
Jan	Sem-II (H)	No. of Lecture	Sem-IV (II)	No. of Lecture	Sem-VI (II)	No. of Lecture
	Theory Core Course III: Mycology and Phytopathology Unit 9: <u>Phytopathology</u> Phytopathology terms + Koch's postulate Practical Core Course III: Mycology and Phytopathology Plant disease Identification + Study Tour	1 2	Theory CC9: Biomolecules and Cell Biology Unit 4: The cell Practical CC9: Biomolecules and Cell Biology Unit 5: Cytochemical staining of: DNA- Feulgen and cell wall in the epidermal peel of onion using Periodic Schiff's (PAS) staining technique	4 2	Theory CC13: Genetics & Plant Breeding Unit 1: Mendelian genetics and its extension Practical CC13: Genetics & Plant Breeding Unit 1: Meiosis through temporary squash preparation, <i>Allium cepa</i> . Mendel's laws through seed Unit 2: ratios. Laboratory exercises in probability and chi-square.	5 2 2
Feb	Theory Core Course III: Mycology and Phytopathology Unit 9: <u>Phytopathology</u> Symptom, distribution & types of disease Practical Core Course III: Mycology and Phytopathology Study of the following diseases: White rust, Rust of <i>Justicia</i> & loose smut of wheat	2 3	Theory CC9: Biomolecules and Cell Biology Unit 5: Cell wall & plasma membrane Unit 6: Cell organelles Nucleus+ Chromosome Practical CC9: Biomolecules and Cell Biology Unit 8: Study different stages of mitosis of <i>Allium cepa</i>	4 4 2	Theory CC13: Genetics & Plant Breeding Unit 1: Mendelian genetics and its extension Practical CC13: Genetics & Plant Breeding Unit 3: Chromosome mapping using point test cross data. Unit 4: Pedigree analysis for dominant and recessive autosomal and sex linked traits.	5 2 2
Mar	Theory Core Course III: Mycology and Phytopathology Unit 9: <u>Phytopathology</u> Host defense mechanism+ Prevention- control Practical Core Course III: Mycology and Phytopathology Citrus Canker+Angular leaf spot of cotton+ TMV+Vein clearing (From Herbarium)	2 3	Theory CC9: Biomolecules and Cell Biology Unit 6: Cell organelles Practical CC9: Biomolecules and Cell Biology Unit 8: Study different stages of mitosis of <i>Allium cepa</i> .	6 2	Theory CC13: Genetics & Plant Breeding Unit 2: Extrachromosomal Inheritance Unit 3: Linkage, crossing over and chromosome mapping Practical CC13: Genetics & Plant Breeding Unit 5: Incomplete dominance and gene interaction through seed ratios (9:7, 9:6:1, 13:3, 15:1, 12:3:1, 9:3:4). Unit 6: Photographs / Permanent Slides showing Translocation Ring, Laggards and Inversion Bridge. Unit 7: Testing of goodness of fit with Mendelian mono and dihybrid ratios	2 5 4 1 2

Apr	Theory Core Course III: Mycology and Phytopathology Unit 9: <u>Phytopathology</u> Citrus canker+ bacterial blight of rice+TMV+ Late blight of potato (Disease cycle & control) Practical Core Course III: Mycology and Phytopathology Early & Late blight of potato+Black stem rust of wheat+White rust of crucifers (From Herbarium)	3	Theory CC9: Biomolecules and Cell Biology Unit 6: Cell organelles Practical CC9: Biomolecules and Cell Biology Unit 8: Study different stages of meiosis of <i>Allium cepa</i> .	6	Theory CC13: Genetics & Plant Breeding Unit 4: Variation in chromosome number and structure Unit 8: Plant Breeding Practical CC14: Plant Biotechnology Unit 1: (a) Preparation of MS medium. (b) Demonstration of <i>in vitro</i> sterilization and inoculation methods using leaf and nodal explants of tobacco. <i>Datura</i> , <i>Brassica</i> etc.	5 4 2
	May	Theory Core Course III: Mycology and Phytopathology Unit 9: <u>Phytopathology</u> Ergot of rye+Black stem rust of wheat+loose and covered smut of wheat+White rust of crucifers (Disease cycle & control) Practical Core Course III: Mycology and Phytopathology mycorrhizae (photographs)	4	Theory CC9: Biomolecules and Cell Biology Unit 7: Cell division & cell cycle Practical CC9: Biomolecules and Cell Biology Unit 8: Study different stages of meiosis of <i>Allium cepa</i> .	6 2	Theory CC14: Plant Biotechnology Unit 1: Plant Tissue Culture Practical CC14: Plant Biotechnology Unit 2: Study of anther, embryo and endosperm culture, micropropagation, somatic embryogenesis & artificial seeds through photographs.
June	Theory and Practical Theory Core Course III: Mycology and Phytopathology Unit 9: <u>Phytopathology</u> Special classes + doubt clearing+ discussions	1	Theory and Practical: Special classes + doubt clearing+ discussions	2	Theory CC14: Plant Biotechnology Unit 1: Plant Tissue Culture Practical CC14: Plant Biotechnology Unit 3: Isolation of protoplasts-Protocol	8 1

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TEACHING PLAN OF SHAMIM ALAM
(Assistant Professor)
Botany (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (II)	No. of Lecture	Sem-III (II)	No. of Lecture	Sem-V (II)	No. of Lecture
Jul	CC1: Microbiology & Phycology Unit 5: Cyanophyta and Xanthophyta Practical CC1: Microbiology & Phycology Staining & Bacteria from curd & root nodules	2	Theory CC5: Plant Ecology and Phytogeography Unit 9: Phytogeography Practical CC6: Plant systematics 1. Study of vegetative and floral characters from the locally available plants of the following families Dicotyledons: Scrophulariaceae, Lamiaceae	12	Theory DSE1: Reproductive Biology of Angiosperms Unit 1: Introduction Practical DSE1: Reproductive Biology of Angiosperms Unit 4: Female gametophyte through permanent slides / photographs	4
		2		2		2
Aug	CC1: Microbiology & Phycology Unit 5: Cyanophyta and Xanthophyta Practical CC1: Microbiology & Phycology Identification of Algae	2	Theory CC6: Plant systematics Unit 4: Systems of classification CC6: Plant systematics 1. Study of vegetative and floral characters from the locally available plants of the following families Dicotyledons: Verbenaceae, Acanthaceae	12	Theory DSE1: Reproductive Biology of Angiosperms Unit 2: Reproductive development Practical DSE1: Reproductive Biology of Angiosperms Unit 5: Embryogenesis	6
		2		2		2
Sept	Theory CC1: Microbiology & Phycology Unit 5: Cyanophyta and Xanthophyta Practical CC2: Archegoniate <i>Marchantia</i>	2	Theory CC6: Plant systematics Unit 5: Biometrics, numerical taxonomy and cladistics Practical CC6: Plant systematics 1. Study of vegetative and floral characters from the locally available plants of the following families Dicotyledons: Rubiaceae, Asteraceae	10	Theory DSE1: Reproductive Biology of Angiosperms Unit 3: Anther and pollen biology Practical DSE1: Reproductive Biology of Angiosperms Unit 5: Embryogenesis	5
		2		2		2
Oct	Theory CC1: Microbiology & Phycology Doubt clearing class Practical CC2: Archegoniate <i>Anthoceros</i>	2	Theory CC7: Economic Botany Unit 2: Cereals Unit 3: Legumes Practical CC7: Economic Botany 8. Rubber: specimen, photograph/model of tapping, samples of rubber products.	6	Theory DSE1: Reproductive Biology of Angiosperms Unit 3: Anther and pollen biology Practical DSE1: Reproductive Biology of Angiosperms Doubt clearing class	5
		2		2		2
Nov	Theory CC1: Microbiology & Phycology Doubt clearing class Practical CC2: Archegoniate <i>Pellia</i>	2	Theory CC7: Economic Botany Unit 4: Sources of sugars and starches Unit 5: Spices Practical CC7: Economic Botany 9. Drug-yielding plants: Organoleptic study of specimens of <i>Andrographis</i> and <i>Catharanthus</i> . 10. Woods: <i>Tectona</i> , Pinns'. Specimen, Section of young stem.	4	Theory DSE1: Reproductive Biology of Angiosperms Unit 4: Ovule Practical DSE1: Reproductive Biology of Angiosperms Doubt clearing class	5
		2		2		1
Dec	Theory CC1: Microbiology & Phycology Doubt clearing class Practical CC2: Archegoniate <i>Funaria</i>	2	Theory CC7: Economic Botany Unit 6: Beverages Practical CC7: Economic Botany 11. Fiber-yielding plants: Jute	4	Theory DSE1: Reproductive Biology of Angiosperms Unit 4: Ovule Practical DSE1: Reproductive Biology of Angiosperms Doubt clearing class	5
		2		2		1
Jan	Sem-II (H)	No. of	Sem-IV (H)	No. of	Sem-VI (H)	No. of

		Lecture		Lecture		Lecture
	Theory CC4: Morphology & Anatomy of Angiosperms Unit 5: Vascular Cambium and Wood Practical CC4: Morphology & Anatomy of Angiosperms 4. Phloem: Sieve tubes-sieve plates; companion cells; phloem fibres, (from permanent slides)	4 2	Theory CC8: Palaeobotany& Palynology Unit 3: Stratigraphy Practical CC8: Palaeobotany& Palynology Unit 1: Study (including mode of preservation) of the following: <i>Lepidodendron</i> , (stem in T. S.) Theory SEC2: Biofertilizers Unit 3: Cyanobacteria	5 2 2	Theory DSE3: Plant Evolution and Biodiversity Unit 1: Earliest forms of plant life Practical DSE3: Plant Evolution and Biodiversity Unit 1: Study of vegetative and reproductive structure of aquatic plants (<i>Nostoc</i> , <i>Chlamydomonas</i> , <i>Oedogonium</i> ,	6 3
Feb	Theory CC4: Morphology & Anatomy of Angiosperms Unit 5: Vascular Cambium and Wood Practical CC4: Morphology & Anatomy of Angiosperms 4. Phloem: Sieve tubes-sieve plates; companion cells; phloem fibres, (from permanent slides)	4 2	Theory CC8: Palaeobotany& Palynology Unit 3: Stratigraphy Practical CC8: Palaeobotany& Palynology Unit 1: Study (including mode of preservation) of the following: <i>Calamites</i> (stem in T. S.) Theory SEC2: Biofertilizers Unit 3: Cyanobacteria	5 2 2	Theory DSE3: Plant Evolution and Biodiversity Unit 1: Earliest forms of plant life Practical DSE3: Plant Evolution and Biodiversity Unit 1: Study of vegetative and reproductive structure of aquatic plants <i>Vaucheria</i> , <i>Polysiphonia</i>).	6 2
Mar	Theory CC4: Morphology & Anatomy of Angiosperms Unit 5: Vascular Cambium and Wood Practical CC4: Morphology & Anatomy of Angiosperms 5. Epidermal system: cell types, stomata types; trichomes: non-glandular and glandular, lenticels.	4 2	Theory CC8: Palaeobotany& Palynology Unit 3: Stratigraphy Practical CC8: Palaeobotany& Palynology <i>Bucklandia</i> (stem, specimen) Theory SEC2: Biofertilizers Unit 4: Mycorrhizal association	5 2 2	Theory DSE3: Plant Evolution and Biodiversity Unit 2: Evolutionary trends Practical DSE3: Plant Evolution and Biodiversity Unit 2: Study of vegetative and reproductive structure of plants of moist shady habitats (<i>Marchantia</i> , <i>Funaria</i>).	6 2
Apr	Theory CC4: Morphology & Anatomy of Angiosperms Unit 5: Vascular Cambium and Wood Unit 6: Adaptive and Protective Systems Practical CC4: Morphology & Anatomy of Angiosperms 5. Epidermal system: cell types, stomata types; trichomes: non-glandular and glandular, lenticels.	2 2 2	Theory CC8: Palaeobotany& Palynology Unit 4: Geologic Time Scale Practical CC8: Palaeobotany& Palynology Unit 1: Study (including mode of preservation) of the following: <i>Glossopteris</i> (leaf, specimen) Theory SEC2: Biofertilizers Unit 4: Mycorrhizal association	5 2 2	Theory DSE3: Plant Evolution and Biodiversity Unit 2: Evolutionary trends Practical DSE3: Plant Evolution and Biodiversity Unit 2: Study of vegetative and reproductive structure of plants of moist shady habitats (<i>Pteris</i>).	6 2
May	Theory CC4: Morphology & Anatomy of Angiosperms Unit 6: Adaptive and Protective Systems Practical CC4: Morphology & Anatomy of Angiosperms	3	Theory CC8: Palaeobotany& Palynology Unit 4: Geologic Time Scale Practical CC8: Palaeobotany& Palynology Unit 1: Study (including mode of preservation) of the following: <i>Lyginopteris</i> (stem in T. S.)	5 2	Theory DSE3: Plant Evolution and Biodiversity Unit 3: Phylogeny of plants Practical DSE3: Plant Evolution and Biodiversity Unit 3: Leaf anatomy of <i>Suaeda</i> , <i>Avicennia</i>	6 2

	6. Root: monocot, dicot, secondary growth (from permanent slides).	2	Theory SEC2: Biofertilizers Unit 4: Mycorrhizal association	2	(Halophytes)- Photographs	
June	Theory CC4: Morphology & Anatomy of Angiosperms Unit 6: Adaptive and Protective Systems Practical CC4: Morphology & Anatomy of Angiosperms	3	Theory CC8: Palaeobotany & Palynology Doubt clearing class Practical CC8: Palaeobotany & Palynology Unit 1: Study (including mode of preservation) of the following: <i>Vertebraria</i> (root, specimen)	2	Theory DSE3: Plant Evolution and Biodiversity Unit 3: Phylogeny of plants	6
	6. Root: monocot, dicot, secondary growth (from permanent slides).	2	Theory SEC2: Biofertilizers Unit 4: Mycorrhizal association	2	Practical DSE3: Plant Evolution and Biodiversity Unit 3: Leaf anatomy of <i>Hertiera</i> (Halophytes)- Photographs	1

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TEACHING PLAN OF MS. MOUSUMI MUKHERJEE

(State Aided College Teacher)

Botany (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory CC2: Archegoniate Unit 1: Introduction-archegoniate; Transition and adaptation to land habit; Alternation of generations Practical CC2: Archegoniate <i>Lycopodium</i>	4	Theory CC5: Plant Ecology and Phytogeography Unit 1: Introduction Practical CC5: Plant Ecology and Phytogeography 6. Ecological adaptations of some species <i>Ipomoea aquatica</i> stem, Phyllode of <i>Acaciaauriculiformis</i>	4	Theory DSE1: Natural Resource Management Unit 3: Land Practical DSE1: Natural Resource Management Unit 4: Calculation and analysis of ecological footprint.	8
		2		2		2
Aug	Theory CC2: Archegoniate Unit 2: Bryophytes-General characteristics & Classification [upto order] of Schuster (1968); Adaptations to land habit; Range of thallus organization Practical CC2: Archegoniate <i>Selaginella</i>	6	Theory CC5: Plant Ecology and Phytogeography Unit 1: Introduction Unit 2: Soil Practical CC5: Plant Ecology and Phytogeography 6. Ecological adaptations of some species <i>Nerium</i> leaf and <i>Vanda</i> root	2 2	Theory DSE1: Natural Resource Management Unit 4: Water Practical DSE1: Natural Resource Management Unit 4: Calculation and analysis of ecological footprint.	8
		2		2		2
Sept	Theory CC2: Archegoniate Unit 3: Type Studies-Bryophytes- <i>Riccia</i> , <i>Marchantia</i> Practical CC2: Archegoniate <i>Equisetum</i>	4	Theory CC5: Plant Ecology and Phytogeography Unit 2: Soil Practical CC5: Plant Ecology and Phytogeography 7. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus, by species area curve method (species to be listed).	4	Theory DSE1: Natural Resource Management Unit 5: Biological Resources Practical DSE1: Natural Resource Management Unit 5: Ecological modeling	6
		2		2		2
Oct	Theory CC2: Archegoniate Unit 3: Type Studies-Bryophytes- <i>Pellia</i> , <i>Anthoceros</i> Practical CC2: Archegoniate <i>Pteris</i>	4	Theory CC5: Plant Ecology and Phytogeography Unit 3: Water Practical CC5: Plant Ecology and Phytogeography 8. Field visit to familiarize students with ecology of different sites.	4	Theory DSE1: Natural Resource Management Unit 5: Biological Resources Practical DSE1: Natural Resource Management Unit 5: Ecological modeling	6
		2		2		2
Nov	Theory CC2: Archegoniate Unit 3: Type Studies-Bryophytes- <i>Sphagnum</i> , <i>Funaria</i> Practical CC2: Archegoniate Revise Practical Class	4	Theory CC5: Plant Ecology and Phytogeography Unit 4: Light, temperature, wind and fire Practical CC5: Plant Ecology and Phytogeography 8. Field visit to familiarize students with ecology of different sites.	4	Theory DSE1: Natural Resource Management Unit 6: Forests Practical DSE1: Natural Resource Management Revise Practical Class	6
		2		1		1
Dec	Theory CC2: Archegoniate Doubt clearing class Practical CC2: Archegoniate Revise Practical Class	2	Theory CC5: Plant Ecology and Phytogeography Doubt clearing class Practical CC5: Plant Ecology and Phytogeography Revise Practical Class	1	Theory DSE1: Natural Resource Management Doubt clearing class Practical DSE1: Natural Resource Management Revise Practical Class	2
		1		1		1
Jan	Sem-II (H)	No. of	Sem-IV (H)	No. of	Sem-VI (H)	No. of

		Lecture		Lecture		Lecture
	Theory CC4: Morphology & Anatomy of Angiosperms Unit 7: Leaves and Inflorescence Practical CC4: Morphology & Anatomy of Angiosperms 7. Stem: monocot, dicot - primary and secondary growth; periderm (from permanent slides)	2	Theory CC10: Molecular Biology Unit 4: Central dogma and genetic code Unit 5: Transcription Practical CC10: Molecular Biology Unit 5: Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al, Griffith's, Hershey & Chase's and Fraenkel & Conrat's experiments)	2	Theory DSE3: Plant Evolution and Biodiversity Unit 4: Evolutionary theories Practical DSE3: Plant Evolution and Biodiversity Unit 4: Morphological and anatomical study of <i>Hydrilla and Vcillisnaria</i>	4 3
Feb	Theory CC4: Morphology & Anatomy of Angiosperms Unit 7: Leaves and Inflorescence Practical CC4: Morphology & Anatomy of Angiosperms 7. Stem: monocot, dicot - primary and secondary growth; periderm (from permanent slides)	2 2	Theory CC10: Molecular Biology Unit 5: Transcription Practical CC10: Molecular Biology Unit 5: Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al, Griffith's, Hershey & Chase's and Fraenkel & Conrat's experiments)	4 2	Theory DSE3: Plant Evolution and Biodiversity Unit 4: Evolutionary theories Practical DSE3: Plant Evolution and Biodiversity Unit 4: Morphological and anatomical study of <i>Arum</i> .	4 2
Mar	Theory CC4: Morphology & Anatomy of Angiosperms Unit 8: Flower, Fruit and Seed Practical CC4: Morphology & Anatomy of Angiosperms 8. Leaf: Different variations; C4 leaves (Kranz anatomy).	2 2	Theory CC10: Molecular Biology Unit 5: Transcription Practical CC10: Molecular Biology Unit 6: Study of the following through photographs: Assembly of Spliceosome machinery; Splicing mechanism in group I & group II introns. Ribozyme and Alternative splicing.	4 2	Theory DSE3: Plant Evolution and Biodiversity Unit 4: Evolutionary theories Practical DSE3: Plant Evolution and Biodiversity Unit 5: Morphological and anatomical study of plants of arid habitat (<i>Nerium</i>).	4 2
Apr	Theory CC4: Morphology & Anatomy of Angiosperms Unit 8: Flower, Fruit and Seed Practical CC4: Morphology & Anatomy of Angiosperms 9. Cystolith, lithocysts and Raphides.	2 2	Theory CC10: Molecular Biology Unit 5: Transcription Practical CC10: Molecular Biology Unit 6: Study of the following through photographs: Assembly of Spliceosome machinery; Splicing mechanism in group I & group II introns. Ribozyme and Alternative splicing.	4 2	Theory DSE3: Plant Evolution and Biodiversity Unit 5: Plant diversity around the world Practical DSE3: Plant Evolution and Biodiversity Unit 5: Morphological and anatomical study of plants of arid habitat (<i>Pinus</i>).	4 2
May	Theory CC4: Morphology & Anatomy of Angiosperms Unit 8: Flower, Fruit and Seed Practical CC4: Morphology & Anatomy of Angiosperms 10. Types of inflorescences, placentation and fruits.	2 2	Theory CC10: Molecular Biology Unit 5: Transcription Practical CC10: Molecular Biology Revise Practical Class	4 2	Theory DSE3: Plant Evolution and Biodiversity Unit 5: Plant diversity around the world Practical DSE3: Plant Evolution and Biodiversity Unit 6: Field visit and report preparation.	4 2
June	Theory CC4: Morphology		Theory CC10: Molecular Biology		Theory DSE3: Plant Evolution	

	& Anatomy of Angiosperms Doubt clearing class Practical CC4: Morphology & Anatomy of Angiosperms Revise Practical Class	2 1	Doubt clearing class Practical CC10: Molecular Biology Revise Practical Class	2 2	and Biodiversity Unit 5: Plant diversity around the world Practical DSE3: Plant Evolution and Biodiversity Revise Practical Class	4 2
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**SURI VIDYASAGGAR COLLEGE
DEPARTMENT OF POLITICAL SCIENCE**

**TEACHING PLAN OF SABIRUL ISLAM
Political Science (General) (July 2022 – June 2023)**

	SEMESTER-I	No. of Lecture	SEMESTER-III	No. of Lecture	SEMESTER-V	No. of Lecture
July-December, 2020	CC1/GE-1: Western Political Thought	12	CC-3/GE-3: Indian Political Thought	22	DSE-1A: Select Comparative Political Thought	7
	Chapter-4		Chapter-2		Chapter-3	
	Hobbes, Locke and Rousseau: Concept of Sovereignty	12	Main Features of Medieval Muslim Political Thought	5	C) Ambedkar on Social Justice	7
	Concept of Sovereignty	4	Introduction to Medieval period	2	Introduction	1
	Hobbes's Concept of Sovereignty	3	Main Features of Muslim Political Thought	3	The concept of Social Justice	2
	Locke's Concept of Sovereignty	2	Chapter-3		Ambedkar as a Reformer	2
	Rousseau's Concept of Sovereignty	3	Rammohan Roy: perception of British Colonial Rule and their role as Modernizers	10	Ambedkar's concept of Social Justice	2
			Introduction to Rammohan Roy as thinker	2	SEC-3: Democratic Awareness through Legal Literacy	60
			His perception of Nationalism	2	Chapter-1	
			British Colonial Rule	2	Constitution-fundamental rights, fundamental duties and other constitutional rights	20
			Perception of British Rule	2	Constitution and its importance	3
			British's as modernizes	2	Fundamental rights	8
			Chapter- 7			
			Ambedkar: Social Justice	7		
			Introduction	1		
		The concept of Social			5	

July-December, 2020		Justice	2	Fundamental duties	4
		Ambedkar as a Reformer	2	Other constitutional rights	
		Ambedkar's concept of Social Justice	2	Chapter-2	
				Laws relating to dowry, sexual harassment and violence against women- laws relating to consumer rights and cyber crimes	13
				Laws relating to dowry	3
				Sexual harassment	2
				Violence against women	4
				Consumer rights	2
				Cyber crime	2
				Chapter-3	
			Anti-Terrorist laws: Implication for security and human rights	12	
			Anti-Terrorist Laws	4	
			Implications for security	5	
			Protection of human rights: how to be safe	3	
			Chapter-4		
			System of Courts/tribunals and their jurisdiction in India-criminal and Civil Courts, writ jurisdiction, specialized courts such as juvenile	15	

					courts, Mahila courts and tribunal	
					System of courts	1
					Tribunals	1
					Jurisdiction of tribunals in India	2
					Civil and criminal courts	3
					Writ jurisdiction	4
					Specialized courts	1
					Juvenile courts	1
					Mahila courts	1
					Tribunals	1

	SEMESTER-IIs	No. of Lecture	SEMESTER-IV	No. of Lecture	SEMESTER-VI	No. of Lecture
	CC2/GE-2: Political Theory	20	CC-4/ GE-4 Indian Government and Politics	20	SEC-4: Human Rights Education	60
	Chapter -2 The Concept of Sovereignty: a) Monistic b) Pluralist C) Popular	10	Chapter – 5 Union Executive: President and Prime Minister: Powers and	11	Chapter-1 Meaning and a brief history of Human Rights (UDHR)	12
					Introduction to the	2

January- June, 2021	The concept of Sovereignty	4	Functions; Governor and Chief Minister: Power and Functions		UDHR	
	Monistic Sovereignty	2	Introduction to Nominal Executive and Real Executive	1	The major points in the UDHR	6
	Pluralist Sovereignty	2	President	1	Human rights	4
	Popular Sovereignty	2	Powers of the President	1	Chapter-2 Human rights: Terrorism and counter terrorism	12
	Chapter-3 Liberty and Equality: Meaning and their inter- relationship	10	Functions of the President	1	Human rights security issues	2
	Introduction		Prime Minister	1	Terrorism	4
	The concept of Liberty	1	Powers of Prime Minister	1	Counter terrorism	2
	Dimensions of Liberty	1	Functions of the Prime Minister	1	Implications for human security	4
	The concept of Equality	2	Governor	1	Chapter-3 Indian constitution and protection of human rights	10
	Dimensions of Equality	1	Powers and Functions of Governor	1	Basic rights required to protect human rights	2
	Relationship between Liberty and Equality	2	Chief Minister	1	The concept of fundamental rights and its fit nesses with human rights propounded by the UDHR	8
		3	Powers and Functions of Chief Minister	1	Chapter-4 National Human Rights Commission: composition and functions	12
			Chapter -6 Judiciary: Supreme Court and High Courts- Compositions and Functions	10	Introduction to the NHRC	2
			Introduction to the Judicial System	2	Introduction to the NHRC	4
			Supreme Court	1	Composition of NHRC	6
			Composition of Supreme Court	1	Functions of NHRC	
			Functions of the Supreme Court	2	Chapter-5 Human rights movements in India: evolution, nature, challenges and prospects	14
		High Court	1			

January- June, 2021			Composition of High Courts	1			
			Functions of High Courts	2			
						Background to the human rights movements in India	3
						Human rights movements in India	2
						Evolutions of human rights movements in India	2
						Nature of Human rights movements in India	2
						Challenges of Human rights movements in India	3
					Prospects of Human rights movements in India	2	

**SURI VIDYASAGGAR COLLEGE
DEPARTMENT OF POLITICAL SCIENCE**

**TEACHING PLAN OF SUBRATA KUMAR GUPTA
Political Science (General) (July 2022 – June 2023)**

	SEMESTER-I	No. of Lecture	SEMESTER-III	No. of Lecture	SEMESTER-V	No. of Lecture
July-December, 2020	CC1/GE-1: Western Political Thought	10	CC-3/GE-3: Indian Political Thought	10	DSE-1A: Select Comparative Political Thought	5
	Chapter -1 Ancient Greek Political Thought	10	Chapter-1 Ancient Indian Political Thought:: Features; Kautilya's theory of Saptanga and the concept of Dandaniti	10	Chapter-3 Indian Thought: Thinkers and Themes	5
	Introduction	2			a) Kautilya on State	
	Background	2				
	Main Philosophers	2	Introduction	2		
	Main Features	4	Main features of ancient Indian Political thought	2		
			Kautilya's Saptanga	4		
			Kautilya's Dandaniti	2		

**July-
December,
2020**

	SEMESTER-II	No. of Lecture	SEMESTER-IV	No. of Lecture	SEMESTER-VI	No. of Lecture
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January- June, 2021	CC2/GE-2: Political Theory	8	CC-4: Indian Government and Politics	12	DSE-1B: Understanding Globalization	12
	Chapter-6		Chapter-2		Chapter-1	
	Political parties and Pressure groups: concept and role	8	a) Fundamental Rights and duties		Globalization: Meaning and Debates	12
	Introduction	2	b) Directive Principles of State Policy	12	Introduction	2
	Concept of Pressure Groups	2	Fundamental rights	6	Globalization	10
	Relation between political parties and pressure groups	2	Fundamental duties	2		
Role of pressure groups	2	Directive principle of state policy	4			

**SURI VIDYASAGGAR COLLEGE
DEPARTMENT OF POLITICAL SCIENCE**

**TEACHING PLAN OF SK ABDUR ARIF
Political Science (General) (July 2020 – June 2021)**

	SEMESTER-I	No. of Lecture	SEMESTER-III	No. of Lecture	SEMESTER-V	No. of Lecture
<i>July-December, 2020</i>	CC-1A: Western Political Thought	(25)	CC-1C: Indian Political Thought	(24)	DSE-1A: Select Comparative Political Thought	(22)
	Chapter-1: Ancient Greek Thought: Main Features	13	Chapter-2: Main features of medieval Muslim Political Thought.	8	Chapter - 2(a) Aristotle on Citizenship	8
	Introduction	4	Introduction	2	Chapter-2(b) Locke on Rights	6
	About Greek politics	5	Main features	6	Chapter-3(a) Kautilya on State	8
	Main features	4	Chapter-3: RammohanRoy : perception of British Colonial Rule and their role as Modernizers.	9	GE-1: Indian Political Thought	(24)
	Chapter-3: Machiavelli: Concept of statecraft and power politics	12	Introduction	1	Chapter-2: Main features of medieval Muslim Political Thought.	8
	Introduction	1	Perception of British Rule	4	Introduction	2
	Concept of state	4	Role as Modernizers	4	Main features	6
	Concept of power	3	Chapter-4: Bankim, Vivekananda: Nationalism	7	Chapter-3: RammohanRoy : perception of British Colonial Rule and their role as Modernizers.	9
	Separation of Politics and Religion	4	About Bankim	2	Introduction	1
			Nationalism of Bankim	5		
			SEC-1: Electoral Practice and Procedures in India	(10)		
			Chapter-1: Electoral Process in India			
			Chapter-5: Role of			

			State	Election	5	Perception of British Rule	,4
			Commission		5		Role as Modernizers
<i>July-December, 2020</i>						Chapter-4: Bankim, Vivekananda: Nationalism	7
						About Bankim	2
						Nationalism of Bankim	5
						SEC-3: Democratic Awareness Through Legal Literacy	(11)
						Chapter-1: Constitution – Fundamental rights	
						Fundamental duties	3
						other constitutional rights	1
						Chapter-2: Laws relating to dowry	2
						sexual harassment	
						violence against women	1
						laws relating to consumer rights	1
cyber crimes	1						

	SEMESTER-II	No. of Lecture	SEMESTER-IV	No. of Lecture	SEMESTER-VI	No. of Lecture
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January- June, 2021	CC-1B: Political Theory (21)	CC-1D: Indian Government and Politics (24)	DSE-1B: Understanding Globalization (18)
	Chapter 2- The Concept of Sovereignty: topic (c) Popular	Chapter -1: a The Constituent Assembly: its Composition and role	Chapter -1: Globalization: Meaning and debates
	Chapter 3- Liberty and Equality: Meaning and their Inter-relationship	b. The Preamble and its Significance	Chapter -4: Globalization and new international order
	Meaning of Liberty and Equality	Chapter-4: Union Legislature: LokSabha and RajyaSabha – Organization, Functions and Lawmaking	
	Types of Liberty and Equality	Introduction	GE-2 Indian Government and Politics (22)
	Inter-relationship of Liberty and Equality	Composition	Chapter -1: a The Constituent Assembly: its Composition and role
	Chapter 5- Theories of State: Topic- (c) Marxist	Functions	b. The Preamble and its Significance
	(d) Gandhian	Comparison	Chapter-4: Union Legislature: LokSabha and RajyaSabha – Organization, Functions and Lawmaking
		Law making Procedures	Introduction
		Chapter -6: Judiciary: Supreme Court and High Courts – Composition and Functions	Composition
	Introduction	Functions	
	Composition	Comparison	
	Functions	Law making Procedures	
	SEC-2 Environmental Awareness	Chapter -6: Judiciary: Supreme Court and High Courts	
	Chapter-1: Environmentalism: Meaning, Key		

January- June, 2021			Related Significance	Ideas,	5	– Composition and Functions	6
			Chapter-5: Governance: Sustainable Development	Green Human	5	Introduction	1
						Composition	2
						Functions	3

**SURI VIDYASAGGAR COLLEGE
DEPARTMENT OF POLITICAL SCIENCE**

TEACHING PLAN OF SK ABDUR ARIF

Political Science (General) (July 2021 – June 2022)

	SEMESTER-I	No. of Lecture	SEMESTER-III	No. of Lecture	SEMESTER-V	No. of Lecture
<i>July 2021 - December 2021</i>	CC-1A: Western Political Thought	(25)	CC-1C: Indian Political Thought	(24)	DSE-1A: Select Comparative Political Thought	(20)
	Chapter-1: Ancient Greek Political Thought: Main Features	13	Chapter-2: Main features of medieval Muslim Political Thought. Introduction	8	Chapter - 2(a) Aristotle on Citizenship	7
	Introduction	4	Main features	2	Chapter-2(b) Locke on Rights	6
	About Greek politics	5	Chapter-3: Rammohan Roy : perception of British Colonial Rule and their role as Modernizers.	6	Chapter-3(a) Kautilya on State	7
	Main features	4	Introduction	9		
	Chapter-3: Machiavelli: Concept of statecraft and power politics	12	Perception of British Rule	1	GE-1: Indian Political Thought	(24)
	Introduction	1	Role as Modernizers	4	Chapter-2: Main features of medieval Muslim Political Thought. Introduction	8
	Concept of state	4	Chapter-4: Bankim, Vivekananda: Nationalism	4	Main features	2
	Concept of power	3	About Bankim	7		6
	Separation of Politics and Religion	4	Nationalism of Bankim	2	Chapter-3: Rammohan Roy : perception of British Colonial Rule and their role as Modernizers.	9
			SEC-1: Electoral Practice and Procedures in India	5	Introduction	1
			Chapter-1: Electoral Process in India	5	Perception of British Rule	4
			Chapter-5: Role of State Election Commission	5	Role as Modernizers	4
					Chapter-4: Bankim,	

<i>July2021 - December 2021</i>					Vivekananda: Nationalism	7
					About Bankim	2
					Nationalism of Bankim	5
					SEC-3: Democratic Awareness Through Legal Literacy	(11)
					Chapter-1: Constitution – Fundamental rights	
					Fundamental duties	3
					other constitutional rights	1
					Chapter-2: Laws relating to dowry	1
					sexual harassment	2
					violence against women	1
					laws relating to consumer rights	1
				cyber crimes	1	

	SEMESTER-II	No. of Lecture	SEMESTER-IV	No. of Lecture	SEMESTER-VI	No. of Lecture
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January- June 2022	CC-1B: Political Theory (21)	CC-1D: Indian Government and Politics (24)	DSE-1B: Understanding Globalization (18)
	Chapter 2- The Concept of Sovereignty: topic (c) Popular	Chapter -1: a The Constituent Assembly: its Composition and role	Chapter -1: Globalization: Meaning and debates
	Chapter 3- Liberty and Equality: Meaning and their Inter-relationship	b. The Preamble and its Significance	Chapter -4: Globalization and new international order
	Meaning of Liberty and Equality	Chapter-4: Union Legislature: LokSabha and RajyaSabha – Organization, Functions and Lawmaking	
	Types of Liberty and Equality	Introduction	GE-2 Indian Government and Politics (22)
	Inter-relationship of Liberty and Equality	Composition	Chapter -1: a The Constituent Assembly: its Composition and role
	Chapter 5- Theories of State: Topic- (c) Marxist	Functions	b. The Preamble and its Significance
	(d) Gandhian	Comparison	Chapter-4: Union Legislature: LokSabha and RajyaSabha – Organization, Functions and Lawmaking
		Law making Procedures	Introduction
		Chapter -6: Judiciary: Supreme Court and High Courts – Composition and Functions	Composition
	Introduction	Functions	
	Composition	Comparison	
	Functions	Law making Procedures	
	SEC-2		
	Environmental Awareness (10)		
	Chapter-1: Environmentalism: Meaning, Key	Chapter -6: Judiciary: Supreme Court and High Courts	

DEPARTMENT OF COMMERCE

TEACHING PLAN OF B. Com. (General) (July 2022 – June 2023 Odd and Even Semester)

Month	Sem-I (general)	Teachers Name	No. of Lecture	Sem-III (general)	Teachers Name	No. of Lecture	Sem-V (general)	Teachers Name	No. of Lecture
Jul	CC-1: FINANCIAL ACCOUNTING-I (1.2 CG) Unit: Theoretical Framework	BK	8	CC-5: COST ACCOUNTING- II (3.1 CG) Unit 1: Methods of Costing-1	KD	7	CC-9: TAXATION-I (5.1 CG) Unit 1	MLT	8
	CC-2: BUSINESS MANAGEMENT (1.3 CG) Unit 1: Introduction	SPD	12	a) Job costing CC-6: FINANCIAL ACCOUNTING- II (3.2 CG) Unit: Accounting for Hire-Purchase and Installment Systems	MLT	13	CC-10: AUDITING (5.2 CG) Unit: Introduction	SPD	12
				SEC-1: E-COMMERCE (3.4 CG) Unit 1: Introduction	SPD	12	DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CG) Unit 1: Introduction	KD	10
							OR DSE-1: FUNDAMENTALS OF MARKETING MANAGEMENT (5.3.2 CG) Unit 1: Introduction	BH	15
						DSE-2: INDIAN FINANCIAL SYSTEM (5.4.1 CG) Unit 1: Financial System and its Components	BK	15	
						OR DSE-2: FUNDAMENTALS OF HUMAN RESOURCE MANAGEMENT (5.4.2 CG) Unit 1: Introduction	SPD	10	

	CC-1: FINANCIAL ACCOUNTING-1 (1.2 CG) Unit1:2 a) Single Entry	MLT	7	CC-5: COST ACCOUNTING- II (3.1 CG) Unit 1: Methods of Costing-1 b) Batch costing	MLT		
	CC-2: BUSINESS MANAGEMENT (1.3 CG) Unit 2: Planning and Strategic Planning	SPD	8	CC-6: FINANCIAL ACCOUNTING- II (3.2 CG) Unit2: Departmental Accounting	KD	7	
				SEC-1:E-COMMERCE (3.4 CG) Unit 2: E-CRM and SCM	BH	10	
Aug						8	

<p>CC-1: FINANCIAL ACCOUNTING-I (1.2 CG) Unit 4: Insurance Claim for Loss of Stock</p>	<p>KD</p>	<p>15</p>	<p>CC-5: COST ACCOUNTING- II (3.1 CG) Unit 4: Marginal Costing</p>	<p>MLT</p>
<p>CC-2: BUSINESS MANAGEMENT (1.3 CG) Unit 4: Staffing and Leading</p>	<p>SPD</p>	<p>12</p>	<p>CC-6: FINANCIAL ACCOUNTING- II (3.2 CG) Unit 5: Partnership accounts</p>	<p>KD</p>
<p>Nov</p>	<p></p>	<p></p>	<p>SEC-1:E-COMMERCE (3.4 CG) Unit 5: New Trends in E-Commerce</p>	<p>SPD</p>
<p></p>	<p></p>	<p></p>	<p></p>	<p>10</p>
<p></p>	<p></p>	<p></p>	<p></p>	<p>8</p>
<p></p>	<p></p>	<p></p>	<p></p>	<p>4</p>

						CG) Unit 5: Maintenance	SPD	8
	Sem-II (general)	BK		Sem-IV (general)		Sem-VI (general)	BH	
	GE-1: PRINCIPLES OF ECONOMICS (2.2 CG) Unit 1: Demand-Supply Framework & Equilibrium	SPD	10	CC-7: FINANCIAL ACCOUNTING-III (4.1 CG) Unit 1: Accounting for Share Capital & Debentures		SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG) Unit 1: Introduction to Personal Selling		
	CC-3: BUSINESS LAW (2.3 CG) Unit 1: The Indian Contract Act, 1872: General Principle of Law of Contract	SPD	12	CC-8: CORPORATE LAWS (4.2 CG) Unit 1: Introduction to Company		GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG) Unit 1: Matrices	BK	10
	CC-4: COST ACCOUNTING-I (2.4 CG) Unit 1: Introduction	KD	10	SEC-2: COMPUTER APPLICATIONS IN BUSINESS (4.3 CG) Unit 1: Computer Basics		DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG) Unit 1: Investment Environment	KD	10
Jan				SEC-3: ENTREPRENEURSHIP (4.4 CG) Unit 1: Introduction	BK	OR DSE-3: TAXATION-II (6.3.2 CG) Unit 1	MLT	12
						DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG) Unit 1: Introduction to International Business	SPD	12
						OR DSE-4: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.4.2 CG)		

						DSE-4: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.4.2 CG) Unit 2: Sources of Finance, Cost of Capital and Capital Structure Analysis	MLT	8
	GE-1: PRINCIPLES OF ECONOMICS (2.2 CG) Unit 3: Market Structure	BK	8	CC-7: FINANCIAL ACCOUNTING-III (4.1 CG) Unit 4: Valuation of Goodwill	KD	SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG)	BH	8
	CC-3: BUSINESS LAW (2.3 CG) Unit 3: The Sale of Goods Act, 1930	SPD	10	CC-8: CORPORATE LAWS (4.2 CG) Unit 4: Share Capital and Debentures	SPD	Unit3: Selling Process	BK	5
	CC-4: COST ACCOUNTING-I (2.4 CG) Unit 4: Overheads I	MLT	8	SEC-2: COMPUTER APPLICATIONS IN BUSINESS (4.3 CG) Unit 4: Introduction to DBMS	BH	GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG) Unit 3: Basics of Statistics	BK	5
Apr				SEC-3: ENTREPRENEURSHIP (4.4 CG) Unit 3: Role of Government and Institutions in Entrepreneurship Development	BK	DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG) Unit 3: Approaches to Equity Analysis	BK	10
					5	OR DSE-3: TAXATION-II (6.3.2 CG) Unit 4: GST I: Basic concepts	KD	8
						DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG) Unit 3: International Organizations and Arrangements	SPD	7
						OR DSE-4: FUNDAMENTALS OF		

						FINANCIAL MANAGEMENT (6.4.2 CG) Unit 3: Capital Budgeting Decision	MLT	12	
	GE-1: PRINCIPLES OF ECONOMICS (2.2 CG) Unit 4: Income Distribution and Factor Pricing	BK	8	CC-7: FINANCIAL ACCOUNTING-III (4.1 CG) Units: Valuation of Shares	MLT	8	SEC-4: PERSONAL SELLING AND SALESMANSHIP (6.1 CG) Unit4:Promotion	BH	12
	CC-3: BUSINESS LAW (2.3 CG) Unit 4: Partnership Laws a) The Partnersh ip Act, 1932 b) The Limited Liability Partnersh ip Act, 2008	SPD	12	SEC-2: COMPUTER APPLICATIONS IN BUSINESS (4.3 CG) Unit 5: (For practical only) A) Word Processing B) Preparing Presentations	BH	7	GE-2: BUSINESS MATHEMATICS AND STATISTICS (6.2 CG) Unit 4: Measures of Central Tendency	BH	10
May	CC-4: COST ACCOUNTING-I (2.4 CG) Unit 4: Overheads I	MLT	10	SEC-3: ENTREPRENEURSHIP (4.4 CG) Unit 4: Sources of business ideas and tests of feasibility	BK	15	DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CG) Unit 4: Portfolio Analysis and Financial Derivatives	BK	10
						OR DSE-3: TAXATION-II (6.3.2 CG) Unit 4: GST I: Basic concepts	KD	8	
						DSE-4: INTERNATIONAL BUSINESS(6.4.1 CG) Unit 4: Developments and Issues in International Business	SPD		

	<p>GE-1: PRINCIPLES OF ECONOMICS (2.2 CG)</p> <p>Unit 5: Selected Macroeconomic Principles</p>	BK	10	<p>CC-7: FINANCIAL ACCOUNTING-III (4.1 CG)</p> <p>Unit5: Valuation of Shares</p>	KD	8	
	<p>CC-3: BUSINESS LAW (2.3 CG)</p> <p>Unit 5: The Negotiable Instruments Act 1881</p>	SPD	12	<p>CC-8: CORPORATE LAWS (4.2 CG)</p> <p>Unit 5: Corporate Meetings</p>	SPD	7	
	<p>CC-4: COST ACCOUNTING-I (2.4 CG)</p> <p>Unit 5: Overheads II</p>	KD	12	<p>SEC-2: COMPUTER APPLICATIONS IN BUSINESS (PRACTICAL)</p> <p>(4.3 CG)</p> <p>Unit 5: (For practical only)</p> <p>C) Spreadsheet and its Business Applications</p> <p>D) Computerised Accounting Systems (Tally)</p>	BH	12	
June				<p>SEC-3: ENTREPRENEURSHIP (4.4 CG)</p> <p>Unit 5: Mobilising Resources</p>	BK	7	

											CGI	Unit 5: Dividend	Decisions	KD	6

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DEPARTMENT OF COMMERCE

TEACHING PLAN OF B.com (Honours) (July 2022 – June 2023 Odd and Even Semester)

Month	Sem-I (H)	Teachers Name	No. of Lecture	Sem-III (H)	Teachers Name	No. of Lecture	Sem-V (H)	Teachers Name	No. of Lecture
Jul	CC1:FINANCIAL ACCOUNTING-I (1.2 CH) Unit1: Theoretical Framework	BK	6	CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) Unit 1: Computer Basics	BH	12	CC-11: TAXATION-I (5.1 CH) Unit1: Introduction	KD	15
	CC-2:BUSINESS MANAGEMENT(1.3 CH) Unit1: Introduction	SPD	15	CC-6: COST ACCOUNTING-II (3.2 CH) Unit 1: a) Job Costing	MLT	5	CC-12: AUDITING (5.2 CH) Unit 1: Introduction	SPD	10
	GE-1:BUSINESS MATHEMATICS(1.4 CH) Unit1: Introductory Algebra	BH	10	CC-7: FINANCIAL ACCOUNTING- II (3.3 CH) Unit 1: Accounting for Hire Purchase and Instalment Payment Systems	KD	10	DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH) Unit 1: Introduction	MLT	10
Jul				SEC-1 E-COMMERCE (3.4 CH) Unit 1: Introduction	SPD	6	DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH) Unit 1: Introduction	BK	13
				GE-3: PRINCIPLES OF ECONOMICS (3.5 CH) Unit 1: Demand-Supply Framework & Equilibrium	SPD	12	DSE-2: INDIAN FINANCIAL SYSTEM (5.4.1 CH) Unit 1: Financial System and its Components	BK	15
				CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) Unit 2: Number System and Binary Arithmetic and Logic Gates	BH	5	DSE-2: ADVERTISING (5.4.2 CH) Unit 1: Introduction	BH	10
Aug	CC1:FINANCIAL ACCOUNTING-I Unit 2: a) Single Entry to Double Entry,	MLT	6	CC-6: COST			CC-11: TAXATION-I (5.1 CH) Unit 2: Agricultural Income	MLT	5
	CC-2:BUSINESS MANAGEMENT(1.3	SPD					CC-12: AUDITING (5.2 CH) Unit 2: Audit of Companies	SPD	15

			GE-3: PRINCIPLES OF ECONOMICS (3.5 CH) Unit 2: Production and Cost	SPD		FINANCIAL SYSTEM (5.4.1 CH) Unit 3: Financial Institutions	BK	7
				SPD		DSE-2: ADVERTISING (5.4.2 CH) Unit 3: Message Development	BH	15
	KD	10	CC-5: COMPUTER APPLICATIONS IN BUSINESS (3.1 CH) Unit 4: Introduction to DBMS	BH	10	CC-11: TAXATION-I (5.1 CH) Unit 3: Income under the head Salaries and its Computation	MLT	10
	SPD	5	CC-6: COST ACCOUNTING-II (3.2 CH) Unit 3: Process Costing including Joint product and By-product	KD	10	CC-12: AUDITING (5.2 CH) Unit 4: Audit of Different Institutions	SPD	10
	BK	10	GE-1: BUSINESS MATHEMATICS(1.4 CH) Unit 4: Calculus-2 (Without Trigonometric application)	MLT	10	DSE-1: MANAGEMENT ACCOUNTING (5.3.1 CH) Unit 3: Ratio Analysis OR DSE-1: FUNDAMENTALS OF BANKING AND INSURANCE (5.3.2 CH) Unit 4: Internet Banking	KD	10
Oct					9	DSE-2: INDIAN FINANCIAL SYSTEM (5.4.1 CH) Unit 3: Financial Institutions OR DSE-2: ADVERTISING (5.4.2 CH) Unit 4: Measuring Advertising Effectiveness	BK	10
				SPD	10		BK	6
				SPD			SPD	

			<p>SEC-2: ENTREPREURSHIP (4.4 CH) Unit 2: Entrepreneurship- Micro, Small and Medium Enterprises, Women Entrepreneurship</p> <p>CC-10: CORPORATE LAWS (4.5 CH) Unit 2: Formation of a Company</p>	<p>BK</p>	10	<p>DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH) Unit 2: Theories of International Trade</p>	<p>KD</p>	15	
				<p>SPD</p>	13		<p>SPD</p>	13	
	<p>CC-3: COST ACCOUNTING-I (2.2 CH) Unit3:Cost Ascertainment B)Labour Cost/ Employee Cost:</p>	<p>KD</p>	15	<p>GE-4: INDIAN ECONOMY (4.1 CH) Unit 3: Policy Regimes</p>	<p>BK</p>	15	<p>CC-13: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.1 CH) Unit 2: Sources of Finance, Cost of Capital and Capital Structure Analysis</p> <p>CC-14: TAXATION-II (6.2 CH) Unit 3: Computation of Total Income and Tax Payable a) Rate of tax applicable to different assesses (except corporate assessee)</p>	<p>KD</p>	10
<p>Mar</p>	<p>CC-4: BUSINESS LAW (2.3 CH) Unit 2: The Negotiable Instruments Act 1881</p>	<p>SPD</p>	10	<p>CC-8:FINANCIAL ACCOUNTING-III (4.2 CH) Unit 3: Valuation of Goodwill and Valuation of Shares</p>	<p>MLT</p>	10	<p>DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CH) Unit 3: Approaches to Equity Analysis OR DSE-3: TAX PROCEDURES AND MANAGEMENT (6.3.2 CH) Unit 3: Tax Management II</p>	<p>MLT</p>	8
	<p>GE-2: BUSINESS STATISTICS (2.4 CH) Unit 3: Measures of Dispersion and Shape</p>	<p>BK</p>	15	<p>CC-9:MARKETING AND HUMAN RESOURCE MANAGEMENT (4.3 CH) Unit 3: Introduction to Marketing Management</p>	<p>BH</p>	15	<p>DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH) Unit 3: International</p>	<p>KD</p>	10

	CC-3: COST ACCOUNTING-I (2.2 CH) Unit4: Cost Ascertainment O) Overheads:	MLT	8	GE-4: INDIAN ECONOMY (4.1 CH) Unit 4: Growth, Development and Structural Change	BK	15	CC-13: FUNDAMENTALS OF FINANCIAL MANAGEMENT (6.1 CH) Unit 3: Capital Budgeting Decision	MLT	15
	CC-4: BUSINESS LAW (2.3 CH) Unit 3: The Sale of Goods Act, 1930	SPD	10	CC-8: FINANCIAL ACCOUNTING-III (4.2 CH) Unit 4: Internal & External Reconstruction of Companies	KD	8	CC-14: TAXATION-II (6.2 CH) Unit 3: Computation of Total Income and Tax Payable b) Computation of tax liability of an individual	KD	15
Apr	GE-2: BUSINESS STATISTICS (2.4 CH) Unit 4: Correlation and Regression Analysis	BH	13	CC-9: MARKETING AND HUMAN RESOURCE MANAGEMENT (4.3 CH) Unit 4: Consumer Behaviour a) Introduction	SPD	7	DSE-3: FUNDAMENTALS OF INVESTMENT (6.3.1 CH) Unit 3: Approaches to Equity Analysis OR DSE-3: TAX PROCEDURES AND MANAGEMENT (6.3.2 CH) Unit 4: Tax Management III	BK	10
				SEC-2: ENTREPREURSHIP (4.4 CH) Unit 4: Sources of business ideas and tests of feasibility		5	DSE-4: INTERNATIONAL BUSINESS (6.4.1 CH)	KD	7

STATISTICS (2,4 CH) Unit 5: Index Numbers and Time Series Analysis						
MANAGEMENT HUMAN RESOURCE AND MANAGEMENT (4,3 CH) Unit 5: Managing the Product	SPD					10
SEC-2: ENTREPREURSHIP (4,4 CH) Unit 5: Mobilising Resources			8			10
CC-10: CORPORATE LAWS (4,5 CH) Unit 5: Corporate Meetings	BK		13		SPD	13
	SPD					

Biraj Kumar

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DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF MAINAK MANDAL

Political Science (General) (July 2022– June 2023)

Month	Sem-I	No. of Lecture	Sem-III	No. of Lecture	Sem-V	No. of Lecture
Jul	General CC1/GE-1: Western Political Thought Chapter -5: Marx and Engels: Dialectical and Historical Materialism; Revolution; Lenin: Imperialism	8	General CC-3/ GE-3: Indian Political Thought Chapter-4: Bankim, Vivekananda: Nationalism Chapter -5: Gandhi: Satyagraha, Trusteeship. SEC-1: Electoral Practice and Procedures	8	General DSE-1A: Select Comparative Political Thought Chapter - 2(c) Rousseau on inequality Chapter - 3(b) Tilak and Gandhi on Swaraj GE-1: Indian Political Thought Chapter-4: Bankim, Vivekananda: Nationalism Chapter -5: Gandhi: Satyagraha, Trusteeship.	6
		2		2		2
Aug	General CC1/GE-1: Western Political Thought Chapter -5: Marx and Engels: Dialectical and Historical Materialism; Revolution; Lenin: Imperialism	4	General CC-3/ GE-3: Indian Political Thought Chapter-4: Bankim, Vivekananda: Nationalism Chapter -5: Gandhi: Satyagraha, Trusteeship. SEC-1: Electoral Practice and Procedures	4	Honours CC11: Plant Physiology Unit 7: Phytochrome, cryptochromes and phototropins General CC11: Plant Physiology Unit 6: Demonstration on the effect of different concentrations of IAA on Plant (Locally Available) coleoptile elongation (IAA Bioassay). Unit 7: To study the induction of amylase activity in germinating grains.	6
		2		2		4
Sept	Honours CC1: Western Political Thought Chapter-2: Medieval Political Thought Chapter -8: Marx and Engels: Dialectical and Historical Materialism; Lenin: Imperialism CC-2: Political Theory Chapter-6 Ideology: Meaning and Variants (a) Anarchism (b) Liberalism and Neo-Liberalism © Fascism; The End of Ideology Debate - Daniel Bell and Francis Fukuyama General CC1/GE-1: Western Political Thought Chapter -5: Marx and Engels: Dialectical and Historical Materialism; Revolution; Lenin: Imperialism	4	General CC-3/ GE-3: Indian Political Thought Chapter-4: Bankim, Vivekananda: Nationalism Chapter -5: Gandhi: Satyagraha, Trusteeship. SEC-1: Electoral Practice and Procedures	8	Honours: CC12: Plant Metabolism Unit 5: ATP-Synthesis General: CC12: Plant Metabolism Unit 5: To demonstrate activity of Nitrate reductase in germinating leaves of different plant sources. Unit 6: To study the activity of lipases in germinating oil-seeds and demonstrate mobilization of lipids during germination.	8
		2		2		2
Oct	Honours CC1: Western Political				Honours: CC12: Plant Metabolism	

	<p>Thought Chapter-2: Medieval Political Thought Chapter -8: Marx and Engels: Dialectical and Historical Materialism; Lenin: Imperialism CC-2: Political Theory Chapter-6 Ideology: Meaning and Variants (a) Anarchism (b) Liberalism and Neo-Liberalism © Fascism; The End of Ideology Debate - Daniel Bell and Francis Fukuyama</p> <p>General CC1/GE-1: Western Political Thought Chapter -5: Marx and Engels: Dialectical and Historical Materialism; Revolution; Lenin: Imperialism</p>	7 2	<p>General CC-3/ GE-3: Indian Political Thought Chapter-4: Bankim, Vivekananda: Nationalism Chapter -5: Gandhi: Satyagraha, Trusteeship. SEC-1: Electoral Practice and Procedures</p>	8 2 2	<p>Unit 6: Lipid metabolism</p> <p>General: CC12: Plant Metabolism Unit 7: Demonstration of absorption spectrum of photosynthetic pigments.</p>	8 2
Nov	<p>Honours CC1: Western Political Thought Chapter-2: Medieval Political Thought Chapter -8: Marx and Engels: Dialectical and Historical Materialism; Lenin: Imperialism CC-2: Political Theory Chapter-6 Ideology: Meaning and Variants (a) Anarchism (b) Liberalism and Neo-Liberalism © Fascism; The End of Ideology Debate - Daniel Bell and Francis Fukuyama</p> <p>General CC1/GE-1: Western Political Thought Chapter -5: Marx and Engels: Dialectical and Historical Materialism; Revolution; Lenin: Imperialism</p>	7 2	<p>General CC-3/ GE-3: Indian Political Thought Chapter-4: Bankim, Vivekananda: Nationalism Chapter -5: Gandhi: Satyagraha, Trusteeship. SEC-1: Electoral Practice and Procedures</p>	7 2 2	<p>Practical CC11: Plant Physiology Practice Classes</p> <p>Theory CC12: Plant Metabolism Unit 7: Nitrogen metabolism</p>	2 8
Dec	<p>Honours CC1: Western Political Thought Chapter-2: Medieval Political Thought Chapter -8: Marx and Engels: Dialectical and Historical Materialism; Lenin: Imperialism CC-2: Political Theory Chapter-6 Ideology: Meaning and Variants (a) Anarchism (b) Liberalism and Neo-Liberalism © Fascism; The End of Ideology Debate - Daniel Bell and Francis Fukuyama</p>	4 2	<p>General CC-3/ GE-3: Indian Political Thought Chapter-4: Bankim, Vivekananda: Nationalism Chapter -5: Gandhi: Satyagraha, Trusteeship. SEC-1: Electoral Practice and Procedures</p>	3 1 1	<p>Theory CC12: Plant Metabolism Unit 8: Mechanisms of signal transduction</p> <p>Practical CC12: Plant Metabolism Special Classes</p>	4 1

						2
Mar	<p>General CC2/GE-2: Political Theory Chapter - 4: Liberalism and Neo-Liberalism Chapter -5: Theories of State: (a) Idealist (b) Liberal © Theory</p>		<p>CC-4/GE-4: Indian Government and Politics Chapter -4: Union Legislature Chapter -7: Party system in India, Coalition Governments Chapter -8: Electoral Process: Election Commission and Electoral Reforms</p>		<p>DSE-1B: Understanding Globalization Chapter -3: Globalization and Terrorism Chapter -4: Globalization and new international order Chapter - 5: Globalization and Localization: Dimensions of cultural change</p> <p>GE-2: Indian Government and Politics Chapter -4: Union Legislature: LokSabha and RajyaSabha- Organization, Functions and Law-making Procedure; the Speaker; Procedure of Constitutional Amendment</p>	12 2 8 2
Apr	<p>General CC2/GE-2: Political Theory Chapter - 4: Liberalism and Neo-Liberalism Chapter -5: Theories of State: (a) Idealist (b) Liberal © Marxist (d) Gandhian</p>	8 2	<p>CC-4/GE-4: Indian Government and Politics Chapter -4: Union Legislature Chapter -7: Party system in India, Coalition Governments Chapter -8: Electoral Process: Election Commission and Electoral Reforms</p>	4 4 2 4	<p>DSE-1B: Understanding Globalization Chapter -3: Globalization and Terrorism Chapter -4: Globalization and new international order Chapter - 5: Globalization and Localization: Dimensions of cultural change</p> <p>GE-2: Indian Government and Politics Chapter -4: Union Legislature: LokSabha and RajyaSabha- Organization, Functions and Law-making Procedure; the Speaker; Procedure of Constitutional Amendment</p>	10 2 6 2
May	<p>General CC2/GE-2: Political Theory Chapter - 4: Liberalism and Neo-Liberalism Chapter -5: Theories of State: (a) Idealist (b) Liberal © Marxist (d) Gandhian</p>	8 2	<p>CC-4/GE-4: Indian Government and Politics Chapter -4: Union Legislature Chapter -7: Party system in India, Coalition Governments Chapter -8: Electoral Process: Election Commission and Electoral Reforms</p>	4 2 3	<p>DSE-1B: Understanding Globalization Chapter -3: Globalization and Terrorism Chapter -4: Globalization and new international order Chapter - 5: Globalization and Localization: Dimensions of cultural change</p> <p>GE-2: Indian Government and Politics Chapter -4: Union</p>	8 8 2

					Legislature: Lok Sabha and Rajya Sabha- Organization, Functions and Law-making Procedure; the Speaker; Procedure of Constitutional Amendment	6
						2
June	General CC2/GE-2: Political Theory Chapter - 4: Liberalism and Neo-Liberalism Chapter -5: Theories of State: (a) Idealist (b) Liberal © Marxist (d) Gandhian	2 2	CC-4/GE-4: Indian Government and Politics Chapter -4: Union Legislature Chapter -7: Party system in India, Coalition Governments Chapter -8: Electoral Process: Election Commission and Electoral Reforms	2 1 3	DSE-1B: Understanding Globalization Chapter -3: Globalization and Terrorism Chapter -4: Globalization and new international order Chapter - 5: Globalization and Localization: Dimensions of cultural change GE-2: Indian Government and Politics Chapter -4: Union Legislature: Lok Sabha and Rajya Sabha- Organization, Functions and Law-making Procedure; the Speaker; Procedure of Constitutional Amendment	6 2 8 2

Head of the Department,
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DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF GOPINATH CHOUDHURY Political Science (Honours) (July 2022– June 2023)

Month	Sem-I	No. of Lectures	Sem-III	No. of Lectures	Sem-V	No. of Lectures	
Jul- Dec,2 020	Honours CC1: Western Political Thought	7	Honours CC5: Comparative Politics Chapter-4 Parliamentary and Presidential Systems: UK, USA and China Chapter-5 Party system in UK and USA and France, Nigeria and Mexico	13	Honours	6	
	Chapter-9 J.S.MILL and Isaiah Berlin: Concept of Liberty	7			DSE-1: Select Comparative Political Thought		
					Chapter-2 c) Ambedkar on Social Justice		6
					DSE-2: Democracy and Decentralized Governance		5
Jan- June, 2021	Sem-II (H)		Sem-IV		Sem-VI		
	Honours CC-3: Indian Political Thought	6	Honours CC- 9: Sociology and Politics	11			
	Chapter-7 B.R.Ambedkar: Social Justice	6	Chapter -1 Political Sociology and Sociology of Politics: Nature and Scope	6			
	CC-4: Indian Government and Politics	7	Chapter-8 State and Civil Society	5			
	Chapter -8 Electoral Process: Election Commission	7			Chapter-5 Dynamics of civil society: New Social Movements, Role of NGOs	5	

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DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF SABIRUL ISLAM

Political Science (Honours) (July 2022 – June 2023)

Month	Sem-I	No. of Lecture	Sem-III	No. of Lecture	Sem-V	No. of Lecture
July-December, 2020	Honours CC1: Western Political Thought Chapter-4: Hobbes: Concept of Sovereignty; Locke: Foundation of Liberalism; Rousseau: General Will	24	Honours CC- 6 Public Administration Chapter-1 Public Administration: Meaning, Dimensions and Significance of Public Administration; Evolution of Public Administration as a Discipline; Identity Crisis of Public Administration	55	Honours CC12: Elementary Research Methods in Political Science Chapter-1 a) Theoretical foundation of research: A brief outline of Positivism, Post-Positivism and their Critics b) Methodology of Research: Qualitative and Quantitative	32
	Introduction	1	Introduction	1		
	Hobbes and his life	2	Public administration: meaning and dimensions	2		
	Hobbes as thinker	2	Significance of public administration	2		
	Hobbes's idea of sovereignty	4	Evolution of public administration	4		
	Locke as a philosopher	2			Introduction to research	5
	Liberalism	4			Theoretical foundation of research	6
	Lockes's idea of liberalism	3	Chapter-2 Classical Theories: Scientific Management(F.W.Taylor); Administrative Mangement (Gullick, Urwick); Ideal type bureaucracy (Weber)	14	Positivism	4
	Rousseau as philosopher	2	Introduction to classical theories	2	Post-positivism	3
	Rousseau's idea of general will	4	Scientific management by Taylor	4	Methodology of research	4
	CC-2: Political Theory Chapter-3 The Concept of Sovereignty: a) Monistic b) Pluralist c) Popular	23	Administrative management by Gullick and Urwick	3	Qualitative research	5
	Introduction	1	Ideal type of Bureaucracy	5	Quantitative research	5
	The concept of sovereignty	3			DSE-2: Democracy and Decentralized Governance	
	Monistic view of sovereignty	2	Chapter-3 Neo-classical Thories: Human Realtions(Elton Mayo); Decision Making	14	Chapter-1 Evolution of the	19

January-June, 2021	Political Thought Chapter-3 Raja Rammohan Roy: Perception of British Colonial Rule and their role as Modernizers	9	Relations Chapter-5 Post-Cold War Global Issues: a) Globalization b) Human Rights c) Terrorism	10	Contemporary Issues in India Chapter-4 Political Economy of Poverty and Inequality	10
	Raja Rammohan Roy as social reformer and philosopher	4	Introduction to post cold-war situations	2	The concept of political economy	2
	His perception of British rule	2	Globazation	3	Measurement of poverty	2
	British rule as modernizers	3	Human rights	3	Dimensions of poverty	2
	CC-4: Indian Government and Politics	31	Terrorism	2	The concept of inequality	2
	Chapter-5 Union Executive: President and Prime Minister: Powers and Functions; Governor and Chief Minister: Powers and functions	20	CC- 9: Sociology and Politics Chapter-6 Environment and Politics: Environment Movements- an overview; Eco-Feminism	8	Dimensions of inequality	2
	Introduction to the union executives	2	Introduction	1	DSE-3 Local Government in West Bengal	30
	Nominal Executive and Real Executive	1	Relation between environment and politics	2	Chapter-1 Evolution of Rural and Urban local governments in West Bengal since Independence	7
	President	1	Environment movements	3	Introduction to local governments	3
	Powers of the President	2	Eco-feminism	2	Evolution of local government in west Bengal since independence	4
	Functions of the President	2	CC-10 International Organizations	6	Chapter-2 Structure and functions of Panchayati Raj Institutions in the light of the West Bengal Panchayet Act of 1973(as amended up to date)	8
	Prime Minister	1	Chapter-1 Evolution of international organizations	6	Structure and functions of panchayati raj	8
	Powers of Prime Minister	2	International organizations	6		
	Functions of the Prime Minister	3	Chapter-2 United Nations: Its Emergence: General Assembly and Security Council: Secretariat: Secretary General: International Court of Justice: Compositions and Functions	13		
	Governor	1	Introduction to the United Nations	2		
	Powers and Functions of Governor	2	Its emergence	2		

Chief Minister	1	General assembly	2	Chapter-4 Local Government and Empowerment of Women, SCs and STs	8
Powers and Functions of Chief Minister	3	Security council	3		
		Secretariat	2	Empowerment of women, SCs and STs	2
Chapter-6 Judiciary: Supreme Court and High Court- Composition and Functions	11	International court of justice	2	Scope of empowerment of women through local government	2
Introduction to the Judicial System	3	Chapter-3 Peacekeeping and Peacebuilding role of UN	4		
Supreme Court	1	Peacekeeping and peacebuilding role of UN	4	Scope of empowerment of SCs in local government	2
Composition of Supreme Court	1			Scope of STs empowerment through local government	2
Functions of the Supreme Court	2				
High Court	1			Chapter-5 State- Local Government Relations: Financial control of the State	7
Composition of High Courts	1				
Functions of High Courts	2			The state government behavior towards local government	3
				Financial control of the state	4

DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF SUBRATA KUMAR GUPTA Political Science (Honours) (July 2022 – June 2023)

Month	Sem-I	No. of Lectures	Sem-III	No. of Lectures	Sem-V	No. of Lectures
July-December, 2020	Honours CC1: Western Political Thought	24	Honours CC5: Comparative Politics	24	Honours	
	Chapter-1 Ancient Greek Political Thought: Plato- Justice; Aristotle- Concept of the State	12	Chapter-1 Transition from Comparative Government to Comparative Politics- Scope and Objective of Comparative Politics	10	DSE-1: Select Comparative Political Thought	22
	Chapter-3 Renaissance and Machiavelli: Concept of Power and Secularization of Politics	12	Chapter-2 Conventions and the Rule of Law in UK; Bill of Rights in the USA	8	Chapter -1 Distinctive features of Indian and Western Political Thought	10
	CC-2: Political Theory	11	Chapter-3 Unitary System; UK and France; Federal System: USA	6	Chapter-2 a) Kautilya on State b) Tilak and Gandhi on Swaraj	12
	Chapter-4 Liberty and Equality: Meaning and their inter-relationship	11				
January-June, 2021	Sem-II (H)		Sem-IV		Sem-VI	
	Honours CC-3: Indian Political Thought	10	Honours CC- 9: Sociology and Politics	21	Honours CC-14: Contemporary Issues in India	23
	Chapter-1 Ancient Indian Political Thought: Features; Kautilya's theory of Saptanga and the concept of Dandaniti	10	Chapter -2 Political Culture: Meaning, Components and Types; Political Socialization: Meaning Role and Agencies	7	Chapter-1 Caste system in India- its changing nature and dynamics	9
			Chapter-3 Political Participation: Meaning and Components	6	Chapter-2 Women-discrimination and	

	<p>CC-4: Indian Government and Politics</p> <p>Chapter -1 b) The Preamble and its Significance</p> <p>chapter-2 a) Fundamental Rights and Duties</p>	<p>10</p> <p>10</p>	<p>Chapter-4 Concepts of Power and Authority</p> <p>SEC- 2: Public Opinion and Survey Research</p> <p>Chapter1 Definitions and Characteristics of Public Opinion</p> <p>Chapter-2 Measuring Public Opinion: Methods and types of sampling</p>	<p>8</p> <p>13</p> <p>6</p> <p>7</p>	<p>violence against women</p> <p>Chapter-3 Secularism and communalism</p>	<p>8</p> <p>6</p>
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DEPARTMENT OF ARABIC

TEACHING PLAN OF WASIM REJA
Arabic (Honours)&Gen (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)G	No. of Lecture	Sem-III (H)G	No. of Lecture	Sem-V (H)G	No. of Lecture
Jul	Theory: CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.	4	Theory CC5: Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa	4	Theory CC11: Prose (Modern Period unit 1) Unit 2: Marta al Bania	3
	CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrta Unit :3 Sahih Hadith	4	CC7: History of Arabic Literature in Egypt: Unit: A,B&C	5	CC12: Poetry (Modern Period unit 1) Unit 3: Ustaj Md. Abduhu	3
	Theory: GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.	2	SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1	2	DSE1: History of Islam, Rhetoric, Prosody, & Philology Unit 1: History of Islam	2
			Theory: CC1C: Prose :(Islamic medieval & modern period) Unit :6 Sura Hujrat Unit:7 Sahih Hadith	3	Theory: SEC3: Specific literary feature of modern Arabic Literature	2
Aug	Theory: CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.	4	Theory CC5: Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa	4	Theory CC11: Prose (Modern Period unit 1) Unit 2: Marta al Bania	3
	CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrta Unit :3 Sahih Hadith	3	CC7: History of Arabic Literature in Egypt: Unit: A,B&C	6	CC12: Poetry (Modern Period unit 1) Unit 3: Ustaj Md. Abduhu	4
	Theory: GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.	3	SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1	2	DSE1: History of Islam, Rhetoric, Prosody, & Philology Unit 1: History of Islam	3
			Theory: CC1C: Prose :(Islamic medieval & modern period) Unit :6 Sura Hujrat Unit:7 Sahih Hadith	1	Theory: SEC3: Specific literary feature of modern Arabic Literature	2
Sept	Theory: CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.	4	Theory CC5: Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa	4	Theory CC11: Prose (Modern Period unit 1) Unit 2: Marta al Bania	4
	CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrta Unit :3 Sahih Hadith	4	CC7: History of Arabic Literature in Egypt: Unit: A,B&C	5	CC12: Poetry (Modern Period unit 1) Unit 3: Ustaj Md. Abduhu	4
			SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1	2	DSE1: History of Islam, Rhetoric, Prosody, & Philology Unit 1: History of Islam	2

	<p>Theory: GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.</p>	3	<p>Theory: CC1C: Prose :(Islamic medieval & modern period) 2 Unit :6 Sura Hujrat Unit:7 Sahih Hadith</p> <p>SEC1: Grammar ,translation & latter writing Unit 1 1</p>	<p>Theory: SEC3: Specific literary feature of modern Arabic Literature 2</p>	
Oct	<p>Theory: CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.</p>	3	<p>Theory CC5: Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa</p> <p>CC7: History of Arabic Literature in Egypt: Unit: A,B&C</p>	3	<p>Theory CC11: Prose (Modern Period unit 1) 3 Unit 2: Marta al Bania</p> <p>CC12: Poetry (Modern Period unit 1) 3 Unit 3: Ustaj Md. Abduhu</p>
	<p>CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrat Unit :3 Sahih Hadith</p>	3	<p>SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1</p>	1	<p>DSE1: History of Islam, Rhetoric, Prosody, & Philology 3 Unit 1: History of Islam</p>
	<p>Theory: GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.</p>	2	<p>Theory: CC1C: Prose :(Islamic medieval & modern period) Unit :6 Sura Hujrat Unit:7 Sahih Hadith</p> <p>SEC1: Grammar ,translation & latter writing Unit 1</p>	1	<p>Theory: SEC3: Specific literary feature of modern Arabic Literature 2</p>
Nov	<p>Theory: CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.</p>	4	<p>Theory CC5: Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa</p> <p>CC7: History of Arabic Literature in Egypt: Unit: A,B&C</p>	4	<p>Practical CC11: Prose (Modern Period unit 1) 3 Unit 2: Marta al Bania</p> <p>CC12: Poetry (Modern Period unit 1) 4 Unit 3: Ustaj Md. Abduhu</p>
	<p>CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrat Unit :3 Sahih Hadith</p>	4	<p>SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1</p>	2	<p>DSE1: History of Islam, Rhetoric, Prosody, & Philology 4 Unit 1: History of Islam</p>
	<p>Theory: GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.</p>	4	<p>Theory: CC1C: Prose :(Islamic medieval & modern period) Unit :6 Sura Hujrat Unit:7 Sahih Hadith</p> <p>SEC1: Grammar ,translation & latter writing Unit 1</p>	1	<p>Theory: SEC3: Specific literary feature of modern Arabic Literature 3</p>
Dec	<p>Theory: CC1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.</p>	3	<p>Theory CC5: Unit:3 Two poetry of Hassan bin Thabit. Unit:4 A poetry of Abbas bin Mirdas from Hamasa</p> <p>CC7: History of Arabic Literature in Egypt: Unit: A,B&C</p>	3	<p>Theory CC11: Prose (Modern Period unit 1) 4 Unit 2: Marta al Bania</p> <p>CC12: Poetry (Modern Period unit 1) 3 Unit 3: Ustaj Md. Abduhu</p>
	<p>CC2:Arabic Prose (Islamic & Medieval) (Part-A) Unit :1 Tarjama Surah Hjrat</p>	4	<p>SEC1: Translation & Composition (on the basis of Grammatical rules) UNIT: 1</p>	2	<p>DSE1: History of Islam, Rhetoric, Prosody, & Philology 2</p>

	Unit :3 Sahih Hadith				Unit 1: History of Islam	
	Theory: GE1: A. Hist. of Arabic Literature(from Pre-Islamic to Umayyad Period Unit 1: Pre-Islamic Period (500-622 A. D.	2	Theory: CC1C: Prose :(Islamic medieval & modern period) 2 Unit :6 Sura Hujrat Unit:7 Sahih Hadith SEC1: Grammar ,translation & latter writing Unit 1 1		Theory: SEC3: Specific literary feature of modern Arabic Literature 2	
	Sem-II (H)G Theory: CC3: History of Arabic Literature (Abbasid Period & Indian Arabic Lit.),Gram. &Trans . : A.Hist. of Arabic Lit. (Abbasid Period -750-1258) & Indian Arabic Lit.) Unit : a) & b)	4	Sem-IV (H)G Theory: CC8: Poetry (Abbasid & Fatimid) المتنبّي نعد المشرفية والعوالي 2) (Poetry of Mutanabbi) CC9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation 1- History of Mahjarite literature in North+South America /Adabul Mahjar A	4 3	Sem-VI (H)G Theory: CC13: Prose (Modern Period Unit -II) الثقافة الهندية أحمد أمين 3) CC14: Poetry (Modern Period Unit -II) صلوات في هيكال الحب أبو 4) القاسم الشابي	4 3
Jan	CC4: Arabic Prose (Islamic & Medieval) (Part-B) خطبة عمر (رض) في: الحكمة (khutbah umar) Unit 3: القضاء و القدر: (al kada wa al kadar)	4	CC10: Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups A & B SEC2: Translation & Interpretation (from English into Arabic & vice versa from News papers) & Communicative Skill: 1)	5 2	Theory: DSE3: Outline History of Modern Arab World & Composition Group-A DSE-1B Outline History of Modern Arab World	2 2
	Theory: GE2: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar & Translation Abbasid Period : (1) PROSE Literature with special reference to Ibn-ul-Muqaffa , Al-Jahiz, Al-Hariri and Al-Hamazan	3	Theory: CC1D: Poetry : (Islamic, medieval, & Modern Period)) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم 1) الحماسة العباس بن مرداس السلمي 5)	2 2		
	Theory CC3: History of Arabic Literature (Abbasid Period & Indian Arabic Lit.),Gram. &Trans . : A.Hist. of Arabic Lit. (Abbasid Period -750-1258) & Indian Arabic Lit.) Unit : a) & b)	3	Theory CC8: Poetry (Abbasid & Fatimid) المتنبّي نعد المشرفية والعوالي 2) (Poetry of Mutanabbi) CC9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation 1- History of Mahjarite literature in North+South America /Adabul Mahjar A	3 4	Theory CC13: Prose (Modern Period Unit -II) الثقافة الهندية أحمد أمين 3) CC14: Poetry (Modern Period Unit -II) صلوات في هيكال الحب أبو 4) القاسم الشابي	3 3
Feb	CC4: Arabic Prose (Islamic & Medieval) (Part-B) خطبة عمر (رض) في: الحكمة (khutbah umar) Unit 3: القضاء و القدر:	3	CC10: Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups A & B SEC2: Translation & Interpretation (from English into Arabic & vice versa from News papers) & Communicative Skill: 2	2 2	Theory: DSE3: Outline History of Modern Arab World & Composition Group-A DSE-1B Outline History of Modern Arab World	3 2
	Theory: GE2: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar & Translation Abbasid Period : (1) PROSE Literature with special reference to Ibn-		Theory: CC1D: Poetry : (Islamic, medieval, & Modern Period) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم 1)			

	<p>CC3: History of Arabic Literature (Abbasid Period & Indian Arabic Lit.), Gram. & Trans. : A.Hist. of Arabic Lit. (Abbasid Period -750-1258) & Indian Arabic Lit.) Unit : a) & b)</p> <p>CC4: Arabic Prose (Islamic & Medieval) (Part-B) Unit 1: خطبة عمر (رض) في الحكم Unit 3: القضاء و القدر</p> <p>Theory: GE2: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar & Translation Abbasid Period : (1) PROSE Literature with special reference to Ibn-ul-Muqaffa , Al-Jahiz, Al-Hariri and Al-Hamazan</p>	<p>CC8: Poetry (Abbasid & Fatimid) 2) المتنبي نعت المشرفية والحوالي (Poetry of Mutanabbi)</p> <p>CC9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation 1- History of Mahjarite literature in North+South America /Adabul Mahjar A</p> <p>CC10: Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups A & B</p> <p>SEC2: Translation & Interpretation (from English into Arabic & vice versa from News papers) & Communicative Skill: 1)</p> <p>Theory: CC1D: Poetry : (Islamic, medieval, & Modern Period) 1) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم 5) الحماسة العباس بن مرداس السلمي SEC2: Grammar ,translation & latter writing Unit-a)</p>	<p>CC13: Prose (Modern Period Unit -II) 3) الثقافة الهندية أحمد أمين</p> <p>CC14: Poetry (Modern Period Unit -II) 4) صلوات في هيكल الحب أبو القاسم الشابي</p> <p>Theory: DSE3: Outline History of Modern Arab World & Composition Group-A</p> <p>DSE-1B Outline History of Modern Arab World</p>	<p>3</p> <p>3</p> <p>2</p> <p>3</p> <p>2</p> <p>1</p> <p>3</p> <p>3</p> <p>2</p> <p>2</p>
June	<p>Theory CC3: History of Arabic Literature (Abbasid Period & Indian Arabic Lit.), Gram. & Trans. : A.Hist. of Arabic Lit. (Abbasid Period -750-1258) & Indian Arabic Lit.) Unit : a) & b)</p> <p>CC4: Arabic Prose (Islamic & Medieval) (Part-B) Unit 1: خطبة عمر (رض) في الحكم Unit 3: القضاء و القدر</p> <p>Theory: GE2: A. History of Arabic Literature (Abbasid Period, 750-1258 A.D.) , Grammar & Translation Abbasid Period : (1) PROSE Literature with special reference to Ibn-ul-Muqaffa , Al-Jahiz, Al-Hariri and Al-Hamazan</p>	<p>Theory CC8: Poetry (Abbasid & Fatimid) 2) المتنبي نعت المشرفية والحوالي (Poetry of Mutanabbi)</p> <p>CC9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation 1- History of Mahjarite literature in North+South America /Adabul Mahjar A</p> <p>CC10: Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups A & B</p> <p>SEC2: Translation & Interpretation (from English into Arabic & vice versa from News papers) & Communicative Skill: 1)</p> <p>Theory: CC1D: Poetry : (Islamic, medieval, & Modern Period) 1) حسان بن ثابت وقال يرثي النبي صلى الله عليه وسلم 5) الحماسة العباس بن مرداس السلمي SEC2: Grammar ,translation & latter writing Unit-a)</p>	<p>Theory: CC13: Prose (Modern Period Unit -II) 3) الثقافة الهندية أحمد أمين</p> <p>CC14: Poetry (Modern Period Unit -II) 4) صلوات في هيكل الحب أبو القاسم الشابي</p> <p>Theory: DSE3: Outline History of Modern Arab World & Composition Group-A</p> <p>DSE-1B Outline History of Modern Arab World</p>	<p>2</p> <p>2</p> <p>3</p> <p>3</p> <p>2</p> <p>2</p>

Wasim Raja

Signature of the Teacher

Department of Arabic,
Suri Vidyasagar College

**Teaching Plan of Dr. Tanmoy Mandal for B.Sc. Plant Protection (General Course)
(2022-23) (July 2022 – June 2023)**

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	CC-1A Pests and Vectors Theory: Pest-Comprehensive definition. Categories of pests: Practical: Mounting, preserving and labeling of Insect Pests and Vectors.	3	CC-1C Bionomics, Plant disease and their management Theory: Bionomics and Management of major insect pests of Rice & Sugarcane.	5	DSE-1A Integrated Pest Management Theory: Definition and genesis of Integrated Pests Managements Practical: Study of sign and symptoms caused by pest.	4
		2	Stored grain Pests Practical: Preparation of desired strength of Pesticides SEC-1 Green Pesticides Theory: Definition of green pesticides	4 2 2		2
Aug	CC-1A Pests and Vectors Theory: Pathogenic, Competitive, Regular, Sporadic with examples and their corresponding vector. Practical: Identification of Insect Pest and diseases.	2	CC-1C Bionomics, Plant disease and their management Theory: Bionomics and Management of major insect pests of Mustard, Potato & Cauliflower.	5	DSE-1A Integrated Pest Management Theory: Tools and strategies of IPM- Cultural Control, Physical Control, Mechanical Control, Biological control, Chemical control etc. Practical: Field survey and collection of pest and disease.	10
		2	Common bird pest Practical: Plant protection equipments; handling of rotary duster, Knapsack sprayer and seed dresser SEC-1 Green Pesticides Theory: Botanical pesticides, Advantage of using botanical insecticides	2 2 4		2
Sept	CC-1A Pests and Vectors Theory:	8	CC-1C Bionomics, Plant disease and their management	10	DSE-1A Integrated Pest Management Theory: Integrated Pests	6

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	<p>Characteristics of following pests. Protozoan, Nematodes, Mites, Insects, Molluscs, Birds, Rodents</p> <p>Practical: Permanent slide preparation.</p>	2	<p>Theory: Bionomics and Management of major insect pests of Brinjal, Jute, Gram, Mango, Tea</p> <p>Practical: Collection of insect pests, common weeds, their identification, preservation</p> <p>SEC-1 Green Pesticides Theory: preparation of pesticides from neem</p>	2 4	<p>managements of Rice, &Wheat crops.</p> <p>Practical: Application of pesticides in crop field</p>	2
Oct	<p>CC-1A Pests and Vectors Theory: Locust Migration of Locust, Phase Theory.</p> <p>Practical: Collection of insects and other pests.</p>	2 2	<p>CC-1C Bionomics, Plant disease and their management Theory: Termites- Examples, Biology and management</p> <p>Practical: Study of symptoms of attack by insect pests</p> <p>SEC-1 Green Pesticides Theory: preparation of pesticides from tobacco</p> <p>Green pesticides, Method of utilization, mode of action</p>	2 2 4 4	<p>DSE-1A Integrated Pest Management Theory: Integrated Pests managements of Potato & Mustard Field.</p> <p>Practical: Application of pesticides in crop field.</p>	4 2
Nov	<p>CC-1A Pests and Vectors Theory: Origin of New Locust Cycle, nature of damage and management.</p> <p>Practical: Field trips for collection of specimens and surveillance.</p>	3 2	<p>CC-1C Bionomics, Plant disease and their management Theory: Rodents (<i>Bandicota bengalensis</i>, <i>Rattus rattus</i>) and their management</p> <p>Practical: Field trips for collection of specimens and surveillance</p> <p>SEC-1 Green Pesticides Theory:</p>	2 2 4	<p>DSE-1A Integrated Pest Management Theory: Integrated Pests Managements of Sugarcane & pulse crops.</p> <p>Practical: Field trips for collection of specimens and surveillance</p>	6 2

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			preparation of pesticides from Chrysanthemum			
			Green pesticides and chemical pesticides	8		
Dec	CC-1A Pests and Vectors Theory and Practical: Special classes + doubt clearing+ discussions		CC-1C Bionomics, Plant disease and their management Theory and Practical: Special classes + doubt clearing+ discussions		DSE-1A Integrated Pest Management Theory and Practical: Special classes + doubt clearing+ discussions	
	Sem-II (G)	No. of Lecture	Sem-IV (G)	No. of Lecture	Sem-VI (G)	No. of Lecture
Jan	CC-1B Pest Management Theory: Forecasting : Definition and need Practical: Field trips for collection of specimens and surveillance.	2 2	CC-1D Plant Defence Mechanism Theory: Resistance of Host Plant to insects. Practical: Field trips for collection of specimens and surveillance. SEC-2 Formulation and application of pesticides and their precautions Theory: Formulation of pesticides Sprayer and duster	10 2 4 4	DSE-1B Dissertation (Curriculum based local area survey of pest and crop) Students have to select an Agricultural Crop. They visit the field twice a week. They collected data (details crop cultivation method) from farmers like land preparation, seed sowing, transplanting, nutrient management, water management, harvesting of the crop. Identification of insect pests, bio-control agent of the crop and their management.	As per student need
Feb	CC-1B Pest Management Theory: Forecasting and monitoring of some insects Practical: Permanent slide preparation.	5 2	CC-1D Plant Defence Mechanism Theory: Physiological inhibitors and feeding deterrents Practical: Study of structural defences in plants- Trichome SEC-2 Formulation and application of pesticides and their precautions Theory: Solid	2 2 4	Helping students to prepare report.	

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			formulation Sprayer -cum- duster, aerosol generator	4		
Mar	CC-1B Pest Management Theory: Major signs and damage due to animal pests Practical: Study of Symptoms of attack by type pests	3 2	CC-1D Plant Defence Mechanism Theory: Ovipositional stimulants and deterrents, feeding stimulants Practical: Plant protection equipment; parts and handling of Rotary Duster. SEC-2 Formulation and application of pesticides and their precautions Theory: Liquid formulation Soil injector, seed dressing machine	4 2 4 4		
Apr	CC-1B Pest Management Theory: Methods of Managements Practical: Identification of common Insects, fungi other pests and diseases of major crops	10 2	CC-1D Plant Defence Mechanism Theory: Host Plant Nutrients and Insects Resistance Practical: Plant protection equipment; parts and handling of knapsack sprayer. SEC-2 Formulation and application of pesticides and their precautions Theory: Gaseous formulation	10 2 3		
May	CC-1B Pest Management Theory: Integrated Pest Management. Practical: Preservation, Mounting and	10 2	CC-1D Plant Defence Mechanism Theory: Allelochemicals decreasing nutrients bioavailability,	4		

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	labeling of specimens		Plant breeding for insect resistance Practical: Plant protection equipment; parts and handling of hand compression sprayer and seed dresser	2		
			SEC-2 Formulation and application of pesticides and their precautions Theory: Precaution	3		
June	CC-1B Pest Management Theory and Practical: Special classes + doubt clearing+ discussions		CC-1D Plant Defence Mechanism Theory and Practical: Special classes + doubt clearing+ discussions			



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DEPARTMENT OF PLANT PROTECTION

TEACHING PLAN OF DR. PAPIA MANDAL(RAHA)

PLANT PROTECTION (G) (2022-23) (JULY 2022-JUNE 2023)

MONTH	SEM-I (G)	NO OF LECTURE	SEM-III (GENERAL)	NO OF LECTURE	SEM-V(GENERAL)	NO OF LECTURE
JULY	Theory Unit-4 Classification Of Plant Disease ,Brief Account Of Bacteria Fungi ,algae Practical :- Identification Of Plant Disease	8	Theory Unit -1 Predisposition And Epidemiological Factors	4	Theory Dse-Ia Integrated Pest Management Unit-2 Tools & Strategies Of 1pm A) Cultural Control B) B)Physical Control C) Practical :- Study Of Sign & Symptoms Caused By Pest	4
AUGUST	Theory – Disease Triangle , Viroids ,Molecules Unit – 5 Dissemination Of Plant Pathogens, Soil Borne, Seed Borne , Air Borne, Water Borne Diseases. Practical –Preparation Of Fungal Slide	8	Theory – Unit 2 Symptoms ,Etiology, Disease Cycle & Management Of Major Plant Disease Of Rice Wheat Sugarcane Potato Tea Practical – Isolation Of Casual Organism	8	Theory – Unit 2 Mechanical Control Biological Control Practical :- Identification of plant diseases	9

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MONTH	SEM-I (G)	NO OF LECTURE	SEM-III (GENERAL)	NO OF LECTURE	SEM-V (GENERAL)	NO OF LECTURE
SEPTEMBER	THEORY – UNIT 5 TRANSMISSION OF COMMON VIRUSES & THEIR COMMON VECTORS	8	UNIT-2 DISEASE OF MUSTARD TOMATO GROUND NUT JUTE BANANA	8	CHEMICAL CONTROL	10
	UNIT -6 SYMPTOMS - MAJOR TYPES DUE TO FUNGI BACTERIA VIRUSES PRACTICAL :- INOCULATION TECHNIQUE		UNIT-3 SEED PATHOLOGY SEED DETERIORATION PRACTICAL :- COLLECTION OF COMMON WEEDS	3	THEORY – GENETIC CONTROL LEGISLATIVE CONTROL	9
OCTOBER	UNIT-7 EPIDEMIOLOGY ENDEMIC, EPIDEMIC PANDEMIC SPORADIC DISEASES. PRACTICAL:- ISOLATION OF CASUAL ORGANISM	4	UNIT-3 SEED TRANSMISSION STRATEGY AND METHODS OF MANAGEMENT PRACTICAL :- STUDY TOUR	2	THEORY – APPROPRIATE IPM METHODS WITH EXAMPLE RICE FIELD WHEAT FIELD	8
NOVEMBER	UNIT – 7 MONOCYCLIC AND POLYCYCLIC DISEASE PYRAMID. STRATEGY OF MANAGEMENT (PANT) PRACTICAL - REPEAT	8	UNIT-4 POST HARVEST DISEASE AND PERISHABLES LOSS DISEASE OF FRUITS, VEGETABLE (ONE)	3	THEORY : APPROPRIATE IPM METHODS WITH EXAMPLE FROM POTATO FIELD MUSTARD FIELD FIELD SURVEY	8
DECEMBER	THEORY- UNIT : 7 STRATEGY OF MANAGEMENT	6	UNIT -5 WEED CLASSIFICATION EXAMPLES AND MANAGEMENT	4	APPROPRIATE IPM SUGARCANE FIELD PULSE FIELD PRACTICAL : STUDY TOUR	8

DEPARTMENT OF PLANT PROTECTION

TEACHING PLAN OF DR. PAPIA MANDAL(RAHA)

PLANT PROTECTION (G) (2022-23) (JULY 2022-JUNE 2023)

MONTH	SEM-II(G)	NO OF LECTURE	SEM-IV (GENERAL)	NO OF LECTURE	SEM-VI (GENERAL)	NO OF LECTURE
JANUARY	THEORY-UNIT-1 FORECASTING-DEFINITION AND NEED UNIT-4 FORECASTING OF PLANT DISEASE FORECASTING SERVICE METHODS OF FORECASTING	2 4 2	THEORY-UNIT-1 PRE INFECTIONAL DEFENCE MECHANISM	4 4	Dissertation Curriculum Based Local Area Survey Of Paste & Crop. Introductory Class On Dissertation Topic Distribution Among The Students.	Field visit : Day-1 ,Day-2,Day-3,Day-4,Day-5,Day-6,Day-7
FEBRUARY	THEORY-4 METHODS OF FORECASTING UNIT 5 : METHODS OF MANAGEMENT LEGISATION PHYSICAL CONTROL. PRACTICALS : IDENTIFICATION OF COMMON FUNGI AND DISEASES OF MAJOR CROPS	4 6	THEORY : UNIT 3: STRUCTURAL DEFENCE : DEVELOPMENT OF CORK LAYER DEPOSITION OF GUMS FORMATION OF PYLOSES,FORMATION OF ABSCISSION LAYER PRACTICAL :	8	Discussion On The Main Objectives Of The Dissertation. Discussion On The Procedure I.E How To Execute The Allotted Project Topic. VISIT THE DIFFERENT FIELDS OF THE SEASONAL	

MARCH	THEORY- UNIT 5 : CULTURAL CONTROL BIOLOGICAL CONTROL PRACTICAL FIELD SURVEY	3 5	THEORY UNIT 3 CELLULAR DEFENCE MECHANISM DEFENCE THROUGH HYPER SENSITIVITY PRACTICAL : ESTIMATE OF TOTAL PHENOL FROM HEALTHY PLANT	8	CROP FIELDS ALONG WITH OUR STUDENTS. COLLECTION OF DATA FROM THE FIELDS	
APRIL	THEORY UNIT -5 CHEMICAL CONTROL GENETIC RESISTANCE PRACTICAL STUDY TOUR	5 5	THEORY-4 ROLE OF PHYTOLEXINS IN DEFENCE MECHANISM PRACTICAL : STUDY OF STRUCTURAL DEFENCE IN PLANTS	6		
MAY	THEORY- UNIT 6 : INTEGRATED PESTMANAGEMENT (I- PM) DEFINITION, GENESIS APPROPRIATE I PM METHODS IN RICE ,WHEAT POTATO FIELDS	5 4	THEORY – UNIT 5 : BASIC IDEA ABOUT TOXINS OF PATHOGENS PRACTICAL: STUDY OF STRUCTURAL DEFENCE IN PLANTS	4	DISCUSSION ON THE WRITING PATTERN OF THE PROJECT TOPIC	11

JUNE	THEORY – UNIT 6 : INTEGRATED PEST MANAGEMENT (I PM) APPROPRIATE I PM METHODS IN MUSTARD SUGARCANE AND PULSES PRACTICAL :- REAPT	6	THEORY – ALL Syllabus	6	UNIT 7 : USE OF TISSUE CULTURE TECHNIQUE IN PLANT PROTECTION FOR RESISTANCE – GENETIC MANIPULATION	
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05.10.23



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DEPARTMENT OF GEOGRAPHY
TEACHING PLAN OF HEMANTA SUTRADHAR
Geography (GENERAL/GE) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory: CC1A Geomorphology and Cartography Unit 1: 1. Weathering: Types and related landforms.	5	Theory CC 1C: Human Geography Unit 1: 3. Eskimos: Adjustment to the environment and recent development	2	Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1 1. Physical Setting – Landforms, Drainage, Climate	5
	Practical CC1A Geomorphology and Cartography Unit 2: 3. Composite bar diagram and age-sex pyramid.	2	Practical CC 1C: Unit II: Map Projection and Map interpretation 3. Interpretation of Topographical maps: Relation between Physiography, drainage and settlement	3	2. Population – Size and Growth since Independence	5
Aug	Theory: CC1A Geomorphology and Cartography Unit 1: 7. Fluvial Cycle of Erosion – Davis and Penck	5	Theory CC 1C: Human Geography Unit 1: 3. Eskimos: Adjustment to the environment and recent development	3	Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1 3. Settlement – Rural and Urban Types	5
	Practical CC1A Geomorphology and Cartography Unit 2: 3. Composite bar diagram and age-sex pyramid.	3	Practical CC 1C: Unit II: Map Projection and Map interpretation 3. Interpretation of Topographical maps: Relation between Physiography, drainage and settlement	2	4. Agricultural Resource: Rice and Wheat and Cotton	5
Sept	Theory: CC1A Geomorphology and Cartography 8. Hydrological Cycle and ground water.	5	Theory CC 1C: Human Geography Unit 1: 4. Population: Population Growth and Demographic Transition Theory	3	Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1 5. Mineral Resource - Iron ore and Bauxite	5
	Practical CC1A Geomorphology and Cartography Unit 2: 4. Taylor's Climograph and	3	Practical CC 1C: Unit II: Map Projection and Map interpretation 4. Interpretation of weather	2		

	Hythergraph		maps			
Oct	Practical CC1A Geomorphology and Cartography Unit 2: 4. Taylor's Climograph and Hythergraph	2	Theory CC 1C: Human Geography Unit 1: 4. Population: Population Growth and Demographic Transition Theory Practical CC 1C: Unit II: Map Projection and Map interpretation 4. Interpretation of weather maps	2 3	Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1 6. Energy Resources: Coal and Petroleum	5
Nov	Practice classes	5	Theory CC 1C: Human Geography Unit 1: 5. Types of population migration with reference to India Practice classes	5 5	Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1 7. Industries: Cotton Textile and Iron and Steel Practice classes	5 5
Dec	Special class	5	Theory Theory CC 1C: Human Geography Unit 1: 6. World Population Distribution and Composition (Age, Gender and Literacy) Special class	5 5	Theory DSE-1A : GEOGRAPHY OF INDIA UNIT: 1 8. Regional Account of Sunderban and Marusthali Special class	5 5
	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
Jan	Practical Surveying and Levelling Unit II: 1. Definition and classification of surveying	5	Theory CC – 1D Environmental Geography 1. Concepts and approaches of Environmental Geography: 2. Concept, Structure and Functions of Ecosystem Practical CC-1D ENVIRONMENTAL GEOGRAPHY 1. Questionnaire for Air Pollution and Health	5 5 5	Theory DSE- 1B : Disaster Management UNIT: 1 7. Cyclone: Causes, Consequences and Management SEC-4 : Collection, Mapping and Interpretation of Pedological Data 1. Soil Sampling Techniques Practical DSE- 1B : Disaster	3 6 5

			Perception Survey		Management Project Work Unit: 2	
Feb	Practical Surveying and Levelling Unit II: 2. Plane table survey by radiation method.	2	Theory CC – 1D Environmental Geography 3. Human-Environment Relationship in Mountain and Coastal Regions 4. Environmental Problems and Management: Air and Water Pollution Practical CC-1D ENVIRONMENTAL GEOGRAPHY 2. Soil Test using Kit : pH and Organic Carbon	5 5 5	Theory DSE- 1B : Disaster Management UNIT: 1 7. Cyclone: Causes, Consequences and Management SEC-4 : Collection, Mapping and Interpretation of Pedological Data 2. Representation of Soil Texture Data using Ternary Diagram Practical DSE- 1B : Disaster Management Project Work Unit: 2	2 6 5
Mar	Practical Surveying and Levelling Unit II: 2. Plane table survey by radiation method.	3	Theory CC-1D. ENVIRONMENTAL GEOGRAPHY 5. Environmental Programmes and Policies: MAB Practical CC-1D: ENVIRONMENTAL GEOGRAPHY 3. Mapping of Wetlands from Topographical Sheet	5 5	Theory DSE- 1B : Disaster Management UNIT: 1 8. Flood: Causes, Consequences and Management SEC-4 : Collection, Mapping and Interpretation of Pedological Data 3. Estimation of Nitrogen using Soil Kit Practical DSE- 1B : Disaster Management Project Work Unit: 2	2 7 5
Apr	Practical		Theory		Theory DSE- 1B : Disaster	

	Surveying and Levelling Unit II: 3. Open and close traversing by Prismatic Compass	5	CC-1D. ENVIRONMENTAL GEOGRAPHY 6. Forest and Wild Life Policy of India Practical CC-1D: ENVIRONMENTAL GEOGRAPHY 4. Mapping of Forest from Topographical Sheet	5 5	Management UNIT: 1 8. Flood: Causes, Consequences and Management SEC-4 : Collection, Mapping and Interpretation of Pedological Data 4. Estimation of Soil pH using Soil Kit Practical DSE- 1B : Disaster Management Project Work Unit: 2	3 7 5
May	Practical Surveying and Levelling Unit II: 4. Drawing of longitudinal profile by Dumpy level Practice classes	5 5	Theory CC-1D. ENVIRONMENTAL GEOGRAPHY 7. Environmental Movements in India: Chipko Practice classes	5 5	SEC-4 : Collection, Mapping and Interpretation of Pedological Data 5. Estimation of Soil Organic Carbon using Soil Kit Practice classes	7 5
June	Special class	5	Theory CC-1D. ENVIRONMENTAL GEOGRAPHY 8. Wetlands: Ramsar Sites in India Special class	5 5	Theory DSE-3 (Theoretical): RESOURCE GEOGRAPHY Unit 2: 5. Contemporary Energy Crisis and Future Scenario 6. Sustainable Resource Development SEC-4 : Collection, Mapping and Interpretation of Pedological Data 6. Analysis and Mapping – pH and Organic Carbon	5 5 7

					Special class	5
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Hemanta Sutrachar

Department of Geography,
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DEPARTMENT OF GEOGRAPHY
TEACHING PLAN OF CHAITALI GORAI
Geography (GENERAL/GE) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory CC1-A: Geomorphology and Cartography 4. Landform development in arid regions	3	Theory CC 1C: Human Geography Unit 1: 1. Definition, Nature, Major Subfields, Contemporary Relevance	2	Theory DSE 1A : ECONOMIC GEOGRAPHY UNIT: 1 1. Scope and Content of Economic Geography 2. Von Thunen Theory of Land Use	5 5
Aug	Theory CC1-A: Geomorphology and Cartography 4. Landform development in arid regions	2	Theory CC 1C: Human Geography Unit 1: 1. Definition, Nature, Major Subfields, Contemporary Relevance	3	Theory DSE 1A : ECONOMIC GEOGRAPHY UNIT: 1 3. Theory of Industrial Location - Weber 4. Types of Farming	5 5
Sept	Theory CC1-A: Geomorphology and Cartography 5. Landform development in glaciated regions.	3	Theory CC 1C: Human Geography Unit 1: 2. Space and Society: Cultural Regions; Race; Religion and Language	3	Theory DSE 1A : ECONOMIC GEOGRAPHY UNIT: 1 5. Intensive Subsistence Farming and Plantation Agriculture	5
Oct	Theory CC1-A: Geomorphology and Cartography 5. Landform development in glaciated regions.	2	Theory CC 1C: Human Geography Unit 1: 2. Space and Society: Cultural Regions; Race; Religion and Language	2	Theory DSE 1A : ECONOMIC GEOGRAPHY UNIT: 1 6. Commercial Fishing	5
Nov	Theory CC1-A: Geomorphology and Cartography 6. Development of fluvial landforms	3	Theory CC 1C: Human Geography Unit 1: 7. Settlements: Types and Patterns of Rural Settlements; Practice classes	5 5	Theory DSE 1A : ECONOMIC GEOGRAPHY UNIT: 1 7. Mining (iron ore, coal and petroleum) Practice classes	5 5

Dec	Theory CC1-A: Geomorphology and Cartography 6. Development of fluvial landforms	2	Theory Theory CC 1C: Human Geography Unit 1: 8. Classification of Urban Settlements; Functional classification of towns Special class	5 5	Theory DSE 1A : ECONOMIC GEOGRAPHY UNIT: 1 8. Cotton Textile Industry, Petro- Chemical Industry Special class	5 5
	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
Jan	Theory CC – 1B Climatology, Soil and Biogeography Unit I: 1. Elements of weather and climate. Thermal and chemical composition and layering of the atmosphere. 2. Horizontal and vertical distribution of temperature	5 5			Theory DSE- 1B : Disaster Management UNIT: 1 1. Meaning and Classification of Hazards and Disasters.	3
Feb	Theory CC – 1B Climatology, Soil and Biogeography Unit I: 3. Forms of precipitation and types of rainfall 4. Tropical and Temperate Cyclones, Climatic Classification (Koppen)	5 5			Theory DSE- 1B : Disaster Management UNIT: 1 1. Meaning and Classification of Hazards and Disasters.	2
Mar	Theory CC – 1B Climatology, Soil and Biogeography Unit I: 5. Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)	5			Theory DSE- 1B : Disaster Management UNIT: 1 2. Approaches to hazard study: Risk perception and vulnerability assessment.	2

Apr	<p>Theory CC – 1B Climatology, Soil and Biogeography Unit I: 6. Soil forming factors. Soil formation (Podzol and Laterite)</p>	5			<p>Theory DSE- 1B : Disaster Management UNIT: 1 2. Approaches to hazard study: Risk perception and vulnerability assessment.</p>	3
May	<p>Theory CC – 1B Climatology, Soil and Biogeography Unit I: 7. Definition of Biosphere and Biogeography. Meaning of Ecology, Ecosystem. Environment, Ecotone, Communities, Habitats and Biotopes. Practice classes</p>	5			<p>Theory DSE- 1B : Disaster Management UNIT: 1 3. Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building. Practice classes</p>	5 5
June	<p>Theory CC – 1B Climatology, Soil and Biogeography Unit I: 8. Biomes: Rainforest and Temperate Grassland. Special class</p>	5 5			<p>Theory DSE- 1B : Disaster Management UNIT: 1 4. Hazard mapping: Data and techniques. Special class</p>	5 5

Chaitali Gorai

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DEPARTMENT OF GEOGRAPHY

	2. Proportional diagrams: Circles and squares	3			Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation.	
Oct	Theory: Theory: CC1A Geomorphology and Cartography Unit 1: 3. Plate Tectonics and its associated landforms	3	Practical CC 1C: Unit II: Map Projection and Map interpretation 2. Cylindrical Equal Area projection	2	Practical SEC 1 – Computer Basics and Computer Applications 3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram	3
	Practical CC1A Geomorphology and Cartography Unit 2: 2. Proportional diagrams: Circles and squares	2				
Nov	Practice classes	5	Practice classes	5	Practical SEC 1 – Computer Basics and Computer Applications 3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram Practice classes	2 5
Dec	Special class	5	Special class	5	Practical SEC 1 – Computer Basics and Computer Applications 4. Internet Surfing: Generation and extraction of information Special class	5 5
	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
Jan	Theory CC 2 Unit I:		SEC-2: Regional Planning and Development		Theory DSE- 1B : Disaster Management	

	5. Definition of soil. Physical and chemical properties of soil (soil texture, colour and pH)	5	1. Definition of Region; Types of Regions	5	UNIT: 1 5. Earthquake: Causes, Consequences and Management	3
Feb	Theory CC 2 Unit I: 6. Soil forming factors. Soil formation (Podzol and Laterite)	5	SEC-2: Regional Planning and Development 2. Regional Planning – Concept and Significance 3. Human Development Index – Concept and Indicators	5 2	Theory DSE- 1B : Disaster Management UNIT: 1 5. Earthquake: Causes, Consequences and Management	2
Mar	Theory CC 2 Unit I: 7. Definition of Biosphere and Biogeography. Meaning of Ecology, Ecosystem.Environment, Ecotone, Communities, Habitats and Biotopes.	5	SEC-2: Regional Planning and Development 3. Human Development Index – Concept and Indicators 4. Agricultural Development in India Since 1970s	3 5	Theory DSE- 1B : Disaster Management UNIT: 1 8. Flood: Causes, Consequences and Management SEC-4 : Collection, Mapping and Interpretation of Pedological Data 3. Estimation of Nitrogen using Soil Kit Practical DSE- 1B : Disaster Management Project Work Unit: 2	2 7 5
Apr	Theory CC 2 Unit I: 8. Biomes: Rainforest and Temperate Grassland.	5	SEC-2: Regional Planning and Development 5. Industrial Development in India Since 1990s 6. Planning Region: DVC	5 3	Theory DSE- 1B : Disaster Management UNIT: 1 6. Landslide: Causes, Consequences and Management	3
May	Practice classes	5	SEC-2: Regional Planning and Development 6. Planning Region: DVC 7. Preparation of Questionnaire on Sanitation and Health	2 5	Theory DSE- 1B : Disaster Management UNIT: 1 6. Landslide: Causes, Consequences and Management Practice classes	2 5
June	Special class	5	SEC-2: Regional Planning and Development 8. Preparation of	5	Special class	5

			Questionnaire on Waste Management			
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DEPARTMENT OF GEOGRAPHY
TEACHING PLAN OF HEMANTA SUTRADHAR
Geography (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture	
Jul	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 1. Degradational processes: Weathering, mass wasting and resultant landforms CC-2: Cartographic Techniques and Geological map study 7. Types of rocks and minerals. Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena Practical CC2 (Practical) Cartographic Techniques and Geological map study 4. Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted structure); Drawing of Geological section and Interpretation of the Map.	4	Theory CC7: GEOGRAPHY OF INDIA Unit 1: Geography of India 1. Geology and physiographic divisions 2. Climate, soil and vegetation: Characteristics and classification	2 3	Theory CC-11. RESEARCH METHODOLOGY AND FIELD WORK Unit 1: Research Methodology 1. Research in Geography: Meaning, types and significance DSE-2 : POPULATION GEOGRAPHY Unit 1: 1. Development of Population Geography; Relation between Population Geography and Demography 2. Determinants of Population Dynamics; Concept of Optimum Population	5 2 3	
	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 2. Models of landscape evolution: Views of Davis, Penck, and Hack CC-2: Cartographic Techniques and Geological map study	3		Theory CC7: GEOGRAPHY OF INDIA Unit 1: Geography of India 3. Population: Distribution, growth, structure and policy 4. Distribution of population by race, caste, religion, language, tribes	2 3	Theory CC-11. RESEARCH METHODOLOGY AND FIELD WORK Unit 1: Research Methodology 2. Significance of Literature review in research DSE-2 : POPULATION	5

	<p>7. Types of rocks and minerals. Characteristics of Granite, Basalt, Dolerite, Pegmatite, Gneiss, Shale, Sandstone, Slate, Marble, Quartzite, Quartz, Feldspar, Mica, Limestone, Calcite, Bauxite, Magnetite, Hematite, Galena</p> <p>Practical CC2 (Practical) Cartographic Techniques and Geological map study 4. Geological Map (Problems related to Horizontal, Uniclinal, Folded and Faulted structure); Drawing of Geological section and Interpretation of the Map.</p>	2			<p>GEOGRAPHY Unit 1: 3. Theories of population growth: Malthusian Theory and Marxian Approach, Demographic Transition Model 4. Distribution, Density and Growth of Population in India since 1951</p>	3 2
Sept	<p>Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 3. Slope Development: Concept of Wood CC-2: Cartographic Techniques and Geological map study 8. Concept of Bedding Plane, Unconformity and Non-conformity, thickness of Bed, Dip, Throw, Hade, heave</p>	4 3	<p>Theory CC7: GEOGRAPHY OF INDIA Unit 1: Geography of India 5. Agricultural regions, Green revolution and its consequences 6. Mineral and power resources distribution and utilisation of iron ore, coal, petroleum</p>	2 3	<p>Theory CC-11. RESEARCH METHODOLOGY AND FIELD WORK Unit 1: Research Methodology 3. Defining research problem, objectives and hypothesis. Research materials and methods</p> <p>DSE-2 : POPULATION GEOGRAPHY Unit 2: 1. Population Composition and Characteristics: Age-Sex; Female-Male Ratio 2. Measures of Fertility and Mortality</p>	4 2 3
Oct	<p>Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2:</p>		<p>Theory CC7: GEOGRAPHY OF INDIA Unit 1: Geography of India</p>		<p>Theory CC-11. RESEARCH METHODOLOGY AND FIELD WORK</p>	

	Geomorphology 3. Slope Development: Concept of Wood CC-2: Cartographic Techniques and Geological map study 8. Concept of Bedding Plane, Unconformity and Non-conformity, thickness of Bed, Dip, Throw, Hade, heave	4 2	7. Industrial development since independence. 8. Regionalisation of India: Views of Spate and Bhatt.	2 3	Unit 1: Research Methodology 4. Techniques of writing scientific reports: Preparing notes, references, bibliography (APA Style), abstract and keywords DSE-2 : POPULATION GEOGRAPHY Unit 2: 3. Population Composition of India: Rural and Urban, Occupational Structure as per Census of India 4. Migration: Theories, Causes and Types	6 8
Nov	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 4. Development of river network and landforms on uniclinal and folded structures Practical Practice classes	3 5	Theory CC7: GEOGRAPHY OF INDIA Unit 2: Geography of West Bengal 1. Physical perspectives: Physiographic divisions, forest and water resources 2. Population: Growth, distribution and human development Practice classes	2 3 5	Theory DSE-2 : POPULATION GEOGRAPHY Unit 2: 5. Concept of Human Development Index 6. Population and development: population-resource regions. Practice classes	2 3 5
Dec	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 4. Development of river network and landforms on uniclinal and folded structures Special class	2 5	Theory CC7: GEOGRAPHY OF INDIA Unit 2: Geography of West Bengal 3. Resources: Mining, agriculture and industries 4. Regional Development: Darjeeling Hills and Sundarban Special class	2 3 5	Theory DSE-2 : POPULATION GEOGRAPHY Unit 2: 7. Population policies in Selected Countries: Sweden and China 8. Contemporary Issues in Population: Health and Unemployment Special class	2 3 5
	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	Theory CC3 (Theory) –		Theory CC-10.		Theory CC 14 :	

	<p>Human Geography Unit 2: Society, Demography and Ekistics 5. Human, population and environment relations with special reference to development–environment conflict</p> <p>CC4 (Theory) – Cartograms, Survey and Thematic Mapping 5. Concepts of Bearing: magnetic and true, whole-circle and reduced</p> <p>Practical CC4 (Practical) – Cartograms, Survey and Thematic Mapping 3. Contouring by Dumpy Level and Prismatic Compass</p>	<p>5</p> <p>2</p> <p>2</p>	<p>ENVIRONMENTAL GEOGRAPHY 1. Geographers' Approach to Environmental Studies 2. Changes in Perception of Environment in different stages of Human Civilization</p> <p>Practical CC-10: ENVIRONMENTAL GEOGRAPHY 1. Preparation of questionnaire for perception survey on environmental problems</p>	<p>5</p> <p>5</p> <p>5</p>	<p>DISASTER MANAGEMENT Unit 2: 3. Cyclone: Factors, vulnerability, consequences and management</p> <p>DSE - 3: RESOURCE GEOGRAPHY Unit 1: 1. Resource Geography: Its Importance and relation with other sub-disciplines 2. Resource: Concept and Classification</p>	<p>3</p> <p>5</p> <p>5</p>
Feb	<p>Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics 6. Social morphology and rural house types in India</p> <p>CC4 (Theory) – Cartograms, Survey and Thematic Mapping 5. Concepts of Bearing: magnetic and true, whole-circle and reduced</p> <p>Practical CC4 (Practical) – Cartograms, Survey and Thematic Mapping 3. Contouring by Dumpy Level and Prismatic Compass</p>	<p>5</p> <p>3</p> <p>3</p>	<p>Theory CC-10. ENVIRONMENTAL GEOGRAPHY 3. Ecosystem: Concept, Structure and Functions</p> <p>Practical CC-10: ENVIRONMENTAL GEOGRAPHY 2. Environmental Impact Assessment: Leopold Matrix</p>	<p>5</p> <p>5</p>	<p>Theory CC 14 : DISASTER MANAGEMENT Unit 2: 3. Cyclone: Factors, vulnerability, consequences and management</p> <p>DSE - 3: RESOURCE GEOGRAPHY Unit 1: 3. Functional Theory of Resource 4. Problems of Resource Depletion with Special Reference to Forest, Water and Fossil Fuels</p>	<p>2</p> <p>5</p> <p>5</p>
Mar	<p>Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics</p>		<p>Theory CC-10. ENVIRONMENTAL GEOGRAPHY 4.Environmental Degradation and</p>	<p>5</p>	<p>Theory CC 14 : DISASTER MANAGEMENT Unit 2:</p>	

	<p>7. Types and patterns of rural settlements CC4 (Theory) – Cartograms, Survey and Thematic Mapping 7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite Practical CC4 (Practical) – Cartograms, Survey and Thematic Mapping 4. Determination of Height of objects using Transit Theodolite (Accessible and Inaccessible bases)</p>	<p>2</p> <p>2</p> <p>2</p>	<p>Pollution: Water and Air</p> <p>Practical CC-10: ENVIRONMENTAL GEOGRAPHY 3. Quality assessment of soil using field kit: pH and NPK</p>	<p>5</p>	<p>4. Fire: Factors, vulnerability, consequences and management</p> <p>DSE - 3: RESOURCE GEOGRAPHY Unit 1: 5. Resource Conservation : Principles and Methods</p> <p>6. Concept of 'Limits to Growth'</p>	<p>2</p> <p>5</p> <p>5</p>
Apr	<p>Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics 7. Types and patterns of rural settlements</p> <p>CC4 (Theory) – Cartograms, Survey and Thematic Mapping 7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite</p> <p>Practical CC4 (Practical) – Cartograms, Survey and Thematic Mapping 4. Determination of Height of objects using Transit Theodolite (Accessible and Inaccessible bases)</p>	<p>3</p> <p>3</p> <p>3</p>	<p>Theory CC-10. ENVIRONMENTAL GEOGRAPHY 5. Environmental Issues related to Agriculture 6. Urban Environmental issues related to Waste Management</p> <p>Practical CC-10: ENVIRONMENTAL GEOGRAPHY 4. Interpretation of air quality using CPCB / WBPCB data</p>	<p>5</p> <p>5</p> <p>5</p>	<p>Theory CC 14: DISASTER MANAGEMENT Unit 2: 4. Fire: Factors, vulnerability, consequences and management</p> <p>DSE-3: RESOURCE GEOGRAPHY Unit 2: 1. Distribution and Utilisation of Metallic Mineral Resources in Indian Context: Iron ore, Bauxite 2. Distribution and Utilisation of Non-Metallic Mineral Resources in Indian Context: Mica, Limestone</p>	<p>3</p> <p>5</p> <p>5</p>

May	Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics 8. Functional Classification of urban settlements		Theory CC-10. ENVIRONMENTAL GEOGRAPHY 7. Concept and Issues related to Bio-diversity	5	Theory DSE - 3 : RESOURCE GEOGRAPHY Unit 2: 3. Distribution, Problems and Management of Energy Resourcesin Indian Context: Conventional (Coal) and Non- Conventional (Solar)	5
	CC4 (Theory) – Cartograms, Survey and Thematic Mapping 7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite	3	Practice classes	7	4. Power resources and problems with reference to Petroleum	5
	Practice classes	5			Practice classes	7
June	Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics 8. Functional Classification of urban settlements		Theory CC-10. ENVIRONMENTAL GEOGRAPHY 8.Environmental Programs and Policies on Forest and Wetland: National and Global	5	Theory DSE-3: RESOURCE GEOGRAPHY Unit 2: 5. Contemporary Energy Crisis and Future Scenario	5
	CC4 (Theory) – Cartograms, Survey and Thematic Mapping 7. Basic concepts of surveying and survey equipments: Prismatic Compass, Dumpy Level, Transit Theodolite	2	Special class	5	6. Sustainable Resource Development	5
	Special class	5			Special class	5

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DEPARTMENT OF GEOGRAPHY
TEACHING PLAN OF RANAJIT GHOSH
Geography (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture			
Jul	CC1 Theory: Geotectonics and Geomorphology Unit 1: 1. Earth's tectonic and structural evolution with reference to geological time scale CC2 (Theory): 1. Maps: Classification and Types. Components of a Map	5	CC 6 (Theory): Unit 1 1. Importance and significance of Statistics in Geography. Discrete and continuous data, population and samples, scales of measurement (nominal, ordinal, interval and ratio), sources of data CC 6 (Practical): 1. Construction of data matrix with each row representing an aerial unit (districts / blocks / mouzas / towns) and corresponding columns of relevant attributes. SEC 1 1. Numbering Systems; Binary Arithmetic	5	CC 11(Theory): Unit 2 1. Fieldwork in Geographical studies – Role and significance. Selection of study area and objectives. Pre-field preparations. Ethics of fieldwork CC 12(Theory): Unit 1 1. Definition, Concepts and Principles of Remote Sensing (RS): Types of Air Photo, RS satellites, sensors and platforms. Unit 2 1. Definition and Components of Geographical Information System (GIS) and raster and vector data structures	5			
							5	CC 11(Theory): Unit 2 2. Field techniques and tools: Questionnaires (open, closed, structured, non-structured). Interview with special reference to focused group discussions. CC 12(Theory): Unit 1 2. EMR Interaction with Atmosphere and Earth Surface, Sensor resolutions and their applications with reference to IRS. Unit 2 2. Principles of preparing attribute tables and overlay analysis	5
Aug	CC1 Theory: Geotectonics and Geomorphology Unit 1: 2. Earth's interior with special reference to seismology. CC2 (Theory): 1. Maps: Classification and Types. Components of a Map	5	CC 6 (Theory): Unit 1 2. Collection of data and formation of statistical tables Unit 2 1. Central tendency: Mean, median, mode, partition values SEC 1 1. Numbering Systems; Binary Arithmetic 2. Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation.	5	CC 11(Theory): Unit 2 2. Field techniques and tools: Questionnaires (open, closed, structured, non-structured). Interview with special reference to focused group discussions. CC 12(Theory): Unit 1 2. EMR Interaction with Atmosphere and Earth Surface, Sensor resolutions and their applications with reference to IRS. Unit 2 2. Principles of preparing attribute tables and overlay analysis	5			
							2	CC 11(Theory): Unit 2 2. EMR Interaction with Atmosphere and Earth Surface, Sensor resolutions and their applications with reference to IRS. Unit 2 2. Principles of preparing attribute tables and overlay analysis	5
Sept	CC1 Theory: Geotectonics and Geomorphology Unit 1:3. Concept of Isostasy: Theories	5	CC 6 (Theory): Unit 2 2. Measures of dispersion range, mean deviation, standard deviation, coefficient of variation	5	CC 11 (Practical): Preparation of Field report CC 12(Theory): Unit 1 3. Principles of False	5			

	of Airy and Pratt 4. Plate Tectonics: Processes at constructive, conservative, destructive boundaries and hotspots: resulting landforms CC2 (Theory): 2. Concept of Scales: Plain, Comparative, Diagonal and Vernier	2 2	CC 6 (Practical): 2. Based on the above, a frequency table, measures of central tendency and dispersion would be computed and interpreted. SEC 1 2. Data Computation, Storing and Formatting in Spreadsheets: Computation of Rank, Mean, Median, Mode, Standard Deviation, Moving Averages, Derivation of Correlation, Covariance and regression; Selection of technique and interpretation. 3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram	5 6 1	Colour Composites (FCC) from IRS LISS-III and Landsat Images (ETM+) data: Image Processing, Pre-processing; Enhancement; Classification. CC 12(Practical): 1. Georeferencing of Scanned Maps	5 5
Oct	CC1 Theory: Geotectonics and Geomorphology Unit 1: 4. Plate Tectonics: Processes at constructive, conservative, destructive boundaries and hotspots: resulting landforms CC2 (Practical): 1. Construction of Scales: Plain, Comparative, Diagonal and Vernier	3 5	CC 6 (Theory): Unit 1 3. Sampling: Need, types, and significance and methods of random sampling CC 6 (Practical): 3. Histograms and frequency curve would be prepared on the dataset. SEC 1 3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram	5 5 6	CC 11 (Practical): Preparation of Field report CC 12(Theory): Unit 2 3. Principles of GNSS positioning - Uses and Waypoint Collection Methods CC 12(Practical): 2. Preparation of FCC using IRS LISS-III and/or Landsat (ETM+) data	5 5 5
Nov	CC2 (Theory): 2. Concept of Scales: Plain, Comparative, Diagonal and Vernier 3. Coordinate Systems: Polar and Rectangular. Concept of Geoid and Spheroid. Map Projections: Classification, Properties and Uses. Concept and Significance of UTM Projection CC2 (Practical): 2. Construction of Projections: Polar	2 5 2	CC 6 (Theory): Unit 1 4. Distribution: frequency, cumulative frequency Unit 2 3. Association and correlation: Rank correlation, product moment correlation SEC 1 3. Preparation of Annotated Diagrams and its interpretation: Scatter diagram and Histogram 4. Internet Surfing: Generation and extraction of information Special class	5 5 3 4 5	CC 11 (Practical): Preparation of Field report CC 12(Theory): Unit 1 4. Principles of image interpretation for Forest, Water and Soil CC 12(Practical): 3. Preparation of LULC Map by Supervised Image Classification (Maximum Likelihood) using IRS LISS-III or Landsat (ETM+) data Special class	5 5 5 5

	Zenithal Stereographic, Simple Conic with two Standard Parallels, Bonne's and Mercator's Special class	5					
Dec	CC2 (Theory): 4. Concept of Generating Globe, Grids: Angular and Linear Systems of Measurement CC2 (Practical): 2. Construction of Projections: Polar Zenithal Stereographic, Simple Conic with two Standard Parallels, Bonne's and Mercator's Practice classes	5 2 5	CC 6 (Theory): Unit 2 4. Linear Regression and time series analysis CC 6 (Practical): 4. Based on of the sample set and using two relevant attributes, a scatter diagram and regression line would be plotted and residual from regression would be mapped with a short interpretation. SEC 1 4. Internet Surfing: Generation and extraction of information Practice classes	5 5 6 5	CC 11 (Practical): Preparation of Field report CC 12(Theory): Unit 2 4. Applications of Geographical Information System in Flood Management and Urban Sprawl CC 12(Practical): 4. Digitisation of Point, Line and Polygon Features and Preparation of Thematic Map (using bar, pie and choropleth method) Practice classes	5 5 5 5	
	Sem-II (H)		Sem-IV (H)		Sem-VI (H)		
	Jan	CC3 (Theory): Unit 1 1. Nature, scope and recent trends of Human Geography CC4 (Theory) 1. Concepts of Cartograms and Thematic Maps	4 4	CC8 (Theory): Unit 1 1. Concept and Classification of Regions 2. Types of Planning; Principles and Techniques of Regional Planning SEC -2 (Practical) 1. Concept of Probability and Normal Distribution and their Geographical Applications, Skewness (Pearson's Method) 2. Differences between Spatial and non-Spatial data, Nearest Neighbour Analysis	5 5 6 1	CC14 (Theory): Unit 2 1. Earthquake: Factors, vulnerability, consequences and management DSE – 4 (Theory) Unit: 1 1. Soil: Definition, Factors of Formation 2. Development and Characteristics of an ideal Soil Profile	5 5 5
		Feb	CC3 (Theory): Unit 1 1. Nature, scope and recent trends of Human Geography 2. Evolution of humans, concept of race and ethnicity; Major Racial Groups of the world CC4 (Theory) 1. Concepts of Cartograms and Thematic Maps	1 3 1	CC8 (Theory): Unit 2 1. Development: Meaning, Growth versus Development 2. Models for Regional Development: Growth Pole (Perroux) and Core Periphery (Hirschman) SEC -2 (Practical) 1. Concept of Probability and Normal Distribution and their Geographical Applications, Skewness (Pearson's Method)	5 5 4	CC14 (Theory): Unit 2 2. Landslide: Factors, vulnerability, consequences and management DSE – 4 (Theory) Unit: 1 3. Physical and Chemical Properties of Soil with special reference to Texture, Structure, Organic Carbon and pH 4. Concept of Zonal,

	2. Concept and utility of Isopleths and Choropleth,	3	2. Differences between Spatial and non-Spatial data, Nearest Neighbour Analysis	3	Azonal and Intrazonal Soil; Formation and Profile Characteristics of Laterite and Podsol	
Mar	CC3 (Theory): Unit 1 2. Evolution of humans, concept of race and ethnicity; Major Racial Groups of the world 3. Space, society and cultural regions (language and religion)	2	CC8 (Theory): Unit 1 3. Need for Regional Planning; Multilevel Planning in India 4. Metropolitan Concept: Metropolis, Metropolitan Areas, Metropolitan Region	5	CC14 (Practical): Preparation of Field report	5
	CC4 (Theory) 2. Concept and utility of Isopleths and Choropleth, 8. Interpretation of Land use and land cover maps	1	SEC -2 (Practical) 2. Differences between Spatial and non-Spatial data, Nearest Neighbour Analysis	5	DSE – 4 (Theory) Unit: 1 5. Classification of Soil: Russian and Indian (ICAR)	5
		2		6	6. Soil Degradation and Management	5
		1				
Apr	CC3 (Theory): Unit 1 3. Space, society and cultural regions (language and religion)	3	CC8 (Theory): Unit 2 3. Model for Regional Development in India: Growth Foci (R.P.Misra)	5	CC14 (Practical): Preparation of Field report	5
	CC4 (Theory) 8. Interpretation of Land use and land cover maps	3	4. Concept of Regional Inequality and Disparity SEC -2 (Practical) 3. Correlation and Regression Analysis, t-test, Spearman's Rank Correlation, Product Moment Correlation; Linear Regression	5	DSE – 4 (Theory) Unit: 2 1. Definition and Scope of Biogeography, Meaning of Biosphere, Ecology, Ecosystem, Environment, Communities, Habitats, Niche, Ecotone and Biotopes	5
			4. Time Series Analysis; Smoothing time series by Least Square and/or Moving Average Method	6	2. Biosphere and Energy: Laws of Energy Exchange, Food Chain, Food Web and Energy Flow	5
May	CC3 (Theory): Unit 1 3. Space, society and cultural regions (language and religion)	1	CC8 (Theory): Unit 2 5. Human Development: Significance, Indicators and Measurement	5	CC14 (Practical): Preparation of Field report	5
	4. Concept of Culture, Cultural Diffusion, Convergence, Cultural Realms of the world	2	6. Status of Regional Imbalances in India SEC -2 (Practical) 3. Correlation and Regression Analysis, t-test, Spearman's Rank Correlation, Product Moment Correlation; Linear Regression	5	DSE – 4 (Theory) Unit: 2 3. Bio-Geo Chemical Cycle: Carbon, Nitrogen	5
	CC4 (Theory) 8. Interpretation of Land use and land	1	4. Time Series Analysis;	4	4. Factors of Plant Growth: Light, Heat, Moisture, Wind, Soil and Topography	5

	cover maps CC4 (Practical) 2. Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method.	2	Smoothing time series by Least Square and/or Moving Average Method	3		
June	CC3 (Theory): Unit 1 4. Concept of Culture, Cultural Diffusion, Convergence, Cultural Realms of the world	3	CC8 (Theory): Unit 2 7. Strategies for Regional Development in India 8.NITI Aayog and its Functions	5	CC14 (Practical): Preparation of Field report	5
	CC4 (Practical) 2. Representation of data on map by proportional circles, dots and spheres, isolines and Choropleth method.	3	SEC -2 (Practical) 4. Time Series Analysis; Smoothing time series by Least Square and/or Moving Average Method	5	DSE – 4 (Theory) Unit: 2 5. Biomes – Concept and	5
	Practice classes	6	Practice classes	6	Classification;Tropical Rainforest and Temperate Grassland	
				5	6. Threat to Biodiversity- Causes, Consequences and Conservation	5
					Practice classes	5

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DEPARTMENT OF GEOGRAPHY
TEACHING PLAN OF CHAITALI GORAI
Geography (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 5. Types of rocks, mineralogical composition of igneous rocks; Landforms on igneous rocks with special reference to Granite and Basalt	4	Theory CC-5. Climatology Unit 1: Elements of the Atmosphere 1. Nature, composition and layering of the atmosphere, 2. Insolation: controlling factors. Heat budget of the atmosphere.	2	Theory DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY Unit 1: Cultural Geography 1. Definition, Scope and Content of Cultural Geography 2. Development of Cultural Geography	3
	Practical CC2 (Practical) Cartographic Techniques and Geological map study 3. Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Slope map (Wentworth), and Stream Ordering (Strahler) on a Drainage Basin.	3		3		2
Aug	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 6. Karst landforms: Surface and sub-surface	3	Theory CC-5. Climatology Unit 1: Elements of the Atmosphere 3. Temperature: horizontal and vertical distribution. Inversion of temperature: types, causes and consequences. 4. Greenhouse effect and importance of ozone layer	2	Theory DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY Unit 1: Cultural Geography 3. Concept of Cultural Hearth, Realm; Cultural Landscape 4. Cultural Innovation and Diffusion; Diffusion of Major World Religions	3
	Practical CC2 (Practical) Cartographic Techniques and Geological map study 3. Construction and Interpretation of Relief Profiles (Superimposed, Projected and Composite), Preparation of Relative Relief Map, Slope map (Wentworth), and	2		3		2

	Stream Ordering(Strahler) on a Drainage Basin.					
Sept	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 7. Glacial and fluvio-glacial processes and landforms	4	Theory CC-5. Climatology Unit 2: Atmospheric Phenomena, Climate Change and Climatic Classification 1. Condensation: Processes and forms. Mechanism of precipitation: Bergeron-Findeisen theory, collision and coalescence. Forms of precipitation. 2. Air mass: Typology, origin, characteristics and modification.	2 3	Theory DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY Unit 1: Cultural Geography 5.Cultural Segregation, Cultural Diversity, and Acculturation 6. Major Races of the World: Distribution and Characteristics	3 2
Oct	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 7. Glacial and fluvio-glacial processes and landforms	4	Theory CC-5. Climatology Unit 2: Atmospheric Phenomena, Climate Change and Climatic Classification 3. Fronts: warm and cold; frontogenesis and frontolysis. 4. Weather: stability and instability; barotropic and baroclinic conditions.	2 3	Theory DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY Unit 2: Settlement 1. Scope and Content of Settlement Geography 2. Definition and Characteristics of Rural Settlement	3 2
Nov	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 8. Aeolian and fluvio-aeolian processes and landforms. Practice classes	3 5	Theory CC-5. Climatology Unit 2: Atmospheric Phenomena, Climate Change and Climatic Classification 5. Circulation in the atmosphere: Planetary winds, jet stream and monsoons 6. Tropical and mid-latitude cyclones. Practice classes	2 3 5	Theory DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY Unit 2: Settlement GEOGRAPHY 3. Rural Settlements: Site and Situation 4. Urban Settlements:Census Definition, Urban Outgrowth, Urban Agglomeration. Practice classes	2 3 5
Dec	Theory: CC-1. GEOTECTONICS AND GEOMORPHOLOGY Unit 2: Geomorphology 8. Aeolian and fluvio-aeolian processes and landforms.	2	Theory CC-5. Climatology Unit 2: Atmospheric Phenomena, Climate Change and Climatic Classification 7. Evidences and causes of climate change 8. Climatic classification after	2 3	Theory DSE-1: CULTURAL AND SETTLEMENT GEOGRAPHY Unit 2: Settlement GEOGRAPHY 5. Urban Morphology:	2

	Special class	5	Köppen, Thornthwaite (1948) Special class	5	Classical Models of Burgess, Hoyt, Harris and Ullman 6. Functional Classification of Cities: Harris and Nelson. Special class	3 5
	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics 1. Evolution of human societies: Hunting and gathering, Pastoral nomadism, Subsistence farming, Industrial and urban societies CC4 (Theory) – Cartograms, Survey and Thematic Mapping 3. Concept, utility, and interpretation of :Climograph, Hythergraph and Ergograph Practical CC4 (Practical) – Cartograms, Survey and Thematic Mapping 1. Diagrammatic representation of data: Star and Age-sex pyramid diagram, pie diagram	5 2 2	Theory CC 9: ECONOMIC GEOGRAPHY Unit 1 1. Meaning and Approaches to Economic Geography 2. Concepts in Economic Geography: Goods; Services; Production; Consumption	3 2	Theory CC 13 : EVOLUTION OF GEOGRAPHICAL THOUGHT Unit 1: 1. Definition, Scope and Content of Geography; Geography as a Spatial Science 2. Geography in Ancient Period: Greek and Roman CC 14 : DISASTER MANAGEMENT Unit 1 1. Classification of hazards and disasters	3 2 3
Feb	Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics 2. Human - environment relations with special reference to Arctic and hot desert regions CC4 (Theory) – Cartograms, Survey and Thematic Mapping 3. Concept, utility, and interpretation of :Climograph, Hythergraph and Ergograph	5 3	Theory CC 9: ECONOMIC GEOGRAPHY Unit 1 3. Factors Influencing Location of Economic Activity and Forces of Agglomeration 4. Determining Factors of Transport Cost	3 2	Theory CC 13 : EVOLUTION OF GEOGRAPHICAL THOUGHT Unit 1: 3. Development of Geography in Medieval period: Arabian 4. Development of Mapping and Knowledge about the World Regional Geography in the Age of Explorations CC 14 : DISASTER MANAGEMENT	2 3

	<p>Practical CC4 (Practical) – Cartograms, Survey and Thematic Mapping 1. Diagrammatic representation of data: Star and Age-sex pyramid diagram, pie diagram</p>	3			<p>Unit 1 2. Approaches to hazard study: Risk perception and vulnerability assessment. Hazard paradigms</p>	2
Mar	<p>Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics 3. Population growth and distribution, population composition; demographic transition model</p>	2	<p>CC 9: ECONOMIC GEOGRAPHY Unit 2 1. Concept and Classification of Economic Activities 2. Location Theories: Von Thünen and Alfred Weber</p>	3	<p>CC 13 : EVOLUTION OF GEOGRAPHICAL THOUGHT Unit 1: 5. Classical Geography in 19th Century: Humboldt, Ritter</p>	2
	<p>CC4 (Theory) – Cartograms, Survey and Thematic Mapping 4. Preparation and interpretation of demographic charts and diagrams (Age-Sex Pyramid)</p>	2		2		<p>CC 14 : DISASTER MANAGEMENT Unit 1 3. Responses to hazards: Preparedness, trauma and aftermath. Resilience and capacity building.</p>
Apr	<p>Theory CC3 (Theory) – Human Geography Unit 2: Society, Demography and Ekistics 3. Population growth and distribution, population composition; demographic transition model</p>	3	<p>CC 9: ECONOMIC GEOGRAPHY Unit 2 3. Primary Activities: Subsistence and Commercial Agriculture; Forestry; Fishing 4. Secondary Activities: Manufacturing (Iron and Steel in India and Japan, Petrochemical in India and USA)</p>	3	<p>CC 13 : EVOLUTION OF GEOGRAPHICAL THOUGHT Unit 2: 1. German School of Thought 2. French School of Thought</p>	3
	<p>CC4 (Theory) – Cartograms, Survey and Thematic Mapping 4. Preparation and interpretation of demographic charts and diagrams (Age-Sex Pyramid)</p>	3		2		<p>CC 14 : DISASTER MANAGEMENT Unit 1 4. Hazards mapping: Data and techniques.</p>

DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM
TEACHING PLAN OF BAHNISIKHA GHOSH
MASS COMMUNICATION AND JOURNALISM (Honours) (July 2022 – Dec 2022)

Month	Sem-I (H)	No. of Classes	Sem-III (H)	No. of Classes	Sem-V (H)	No. of Classes
JULY	<p>Theory:</p> <p>CC2: Introduction to Media and Communication</p> <p>Unit II: Communication and Mass Communication</p> <p>Definition of Communication and its Process</p> <p>Forms of Communication: Verbal and Non verbal Communication</p> <p>Levels of communication: Intra, Inter, Group, Organizational</p> <p>Remedial session</p>	10	<p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio Unit I: Development of Radio</p> <p>Concept of wireless communication, Electromagnetic wave Radio's characteristics as an audio medium</p> <p>Evolution of radio in India and around the world</p> <p>AIR and its role a medium of mass communication , AIR, BBC,VOA management and comparative profile , Internet radio, HAM Radio</p> <p>Remedial session</p>	12	<p>Theory:</p> <p>DSE 1: Communication Research & Methodology</p> <p>Unit I: Introduction to Research concept of research and it's methodology</p> <p>Communication research</p> <p>Basic and Applied Research, scientific approach, Role of Theory in research, Steps of Research: Research question Hypothesis Literature Review Research Design Data Collection Data</p>	11

					presentation Data analysis Remedial session	
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AUG	<p>Theory: CC2: Introduction to Media and Communication Unit II: Communication and Mass Communication Levels of communication: Public Communication, Mass line Communication, Mass Communication and its Process Model vs Theory (Linear to Non-linear) Aristotle's Model of Communication Laswell Model Shanon Weaver Model SMCR Model Wilbur Schramm model Remedial session</p>	11	<p>Theory: CC 5: Introduction to Broadcast Media: Radio Unit 2- Radio news Types of radio news bulletins and their structures, Style and presentation of Radio news , News reader- qualities and duties , Radio newsroom-structure and function , OB VAN, News production, Live broadcasting, News Service Division Remedial session</p>	15	<p>Theory: DSE 1: Communication Research & Methodology Unit II: Methods of Media Research Variables and its types Qualitative Quantitative Technique, Content Analysis, Survey Method, Observation Methods, Experimental Studies, Case Studies, Narrative Analysis, Historical research. Remedial session</p>	12
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SEPT	<p>Theory:</p> <p>CC2: Introduction to Media and Communication</p> <p>Unit II: Communication and Mass Communication</p> <p>Normative Theories of the Press: Authoritarian theory Libertarian theory Communist media theory Social responsibility theory</p> <p>Media and the Public Sphere: Formation of public sphere (State, market and civil society) And the formation of public opinion</p> <p>Remedial session</p>	12	<p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 3: Radio</p> <p>Programme Radio</p> <p>interview,</p> <p>Types format of the interview,</p> <p>Panel discussion,</p> <p>Radio talk, Radio features, Radio package,</p> <p>Illustrated reading, Storytelling</p> <p>Remedial Session</p>	13	<p>Theory:</p> <p>DSE 1: Communication Research & Methodology</p> <p>Unit III: Sampling</p> <p>Sampling, Need for Sampling, Representativeness of the Samples,</p> <p>Universe and Population Sampling Methods, Probability sampling and its types</p> <p>Non probability sampling and its types</p> <p>Sampling Error and Non sampling Error</p> <p>Remedial session</p>	11
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OCT	<p>Theory:</p> <p>CC1: Introduction to Journalism</p> <p>Unit II: Different Forms of print-Ahistorical Perspective</p> <p>Yellow journalism Penny press Tabloid press</p> <p>Reporters-Print to electronic to digitalization</p> <p>Remedial session</p>	7	<p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 4: Radio Production & editing</p> <p>Art of scripting,</p> <p>Uses, norms of microphones, different forms of microphones,</p> <p>Acoustic treatment of audio studio</p> <p>Remedial session</p>	10	<p>Theory:</p> <p>DSE 1: Communication Research & Methodology</p> <p>Unit II: Contd.</p> <p>Tools of data collection: Primary and Secondary data</p> <p>Questionnaire: Open and close-ended question</p> <p>Focus Group Discussion Interview Fieldwork through Surveys,</p> <p>Telephonic surveys, Online Polls, Published and Unpublished</p> <p>work. Remedial session</p>	8
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NOV	<p>Theory:</p> <p>CC1: Introduction to Journalism</p> <p>Unit II: Different Forms of print-Ahistorical Perspective</p> <p>Citizen journalism-from letter to the editor to WhatsApp</p> <p>Robert Gunning: Principles of clear writing</p> <p>Rudolf Flesch: Readability Test</p> <p>Remedial session</p>	9	<p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 4: Contd.</p> <p>Digital editing- sound card etc ,</p> <p>Uses of Sound effects, Digital Editing consoles, audio mixing techniques</p> <p>Digital editing through Sound Wrap- up, crossfade ,</p> <p>Editor & Editing- dos and don'ts ,</p> <p>Production and post production, Radio programme</p> <p>budget Remedial session</p>	13	<p>Theory:</p> <p>DSE 1: Communication Research & Methodology</p> <p>Unit IV: Methods of Analysis and report writing</p> <p>Data Analysis Techniques; Coding and Tabulation, Non-Statistical Methods: Descriptive and Historical Method</p> <p>Working with Archives</p> <p>Library Research</p> <p>Working with the Internet as a source Writing Citations, Bibliography</p> <p>Writingtheresearch report</p> <p>Remedial session</p>	12
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DEC	<p>Theory: CC1: Introduction to Journalism Unit III: Understanding the Structure and Construction of News Organising a news story, Inverted pyramid (5W's and 1H) Criteria for newsworthiness, Principles of news selection Use of archives, sources of news, use of internet Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test</p>	7	<p>Theory: CC 5: Introduction to Broadcast Media: Radio Unit 5: FM broadcasting Emergences of Public & Private FM in India, Format of FM Programme Popularity and acceptance of FM among the audience, Market potentiality of FM programme, Radio in rural India Community radio-scope and applications Community Radio in India, Nepal & Bangladesh, Content and coverage of rural based programme in Radio Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test</p>	13	<p>Theory: DSE 1: Communication Research & Methodology Unit V: Ethnographies and other Methods Readership and Audience Surveys Ethnographies, textual analysis, discourse analysis Ethical Perspectives of mass media research Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test</p>	12
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DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM
TEACHING PLAN OF BAHNISIKHA GHOSH
MASS COMMUNICATION AND JOURNALISM (Honours) (Jan 2023 – June 2023)

Month	Sem-II (H)	No. of Classes	Sem-IV (H)	No. of Classes	Sem-V (H)	No. of Classes
JAN	<p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 2: Indian Press – Some Major Journals and Newspapers of PreIndependence days</p> <p>Bengal Gazette and James Augustus Hickey,</p> <p>Samachar Darpan,</p> <p>Calcutta Journal and James Silk Buckingham,</p> <p>Sambad Kaumudi</p> <p>Remedial session</p>	12	<p>Theory:</p> <p>CC 10 : Media Ethics and the Law</p> <p>Unit-I Ethical Framework And Media practice</p> <p>Constitution of India Indian Penal Code, 1860</p> <p>Freedom of expression Article 19(1)(a) and article 19 (2)</p> <p>Freedom of expression and defamation- Libel and slander</p> <p>Issues of privacy and Surveillance in Society</p> <p>Right to Information</p> <p>Working journalist</p> <p>act Contempt of court</p> <p>Remedial session</p>	13	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step I: Ethnographic studies Participatory development Sustainable development Community outreach programme</p> <p>Problem identification Literature review</p> <p>Remedial session</p>	9

FEB	<p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit II: Contd.</p> <p>Samachar Chandrika,</p> <p>Bengal Spectator,</p> <p>Parthenon ,</p> <p>Gyananweshan ,</p> <p>SambadPravakar ,</p> <p>Yugantar</p> <p>Remedial session</p>	10	<p>Theory:</p> <p>CC 10 : Media Ethics and the Law</p> <p>Unit 2: Media Technology and Ethical Parameters</p> <p>Live reporting and ethics Legality</p> <p>Ethicality of Sting Operations,</p> <p>Discussion of Important cases-eg-Operation Westend</p> <p>Phone Tapping etc</p> <p>Ethical issues in Social media (IT Act 2000,</p> <p>Sec66A and the verdict of The supreme court)</p> <p>Some Related laws</p> <p>Relevant sections of Broadcast Bill,</p> <p>NBA guidelines</p> <p>Remedial session</p>	14	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step II:</p> <p>Research question</p> <p>Hypothesis</p> <p>Research design</p> <p>Remedial session</p>	7
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MAR	<p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 3:</p> <p>Role of Derozio ,</p> <p>Sishir Basu & Amritabazar Patrika ,</p> <p>Harish Chandra Mukhopadhyay & Hindoo Patriot</p> <p>Remedial session</p>	9	<p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 3- Representation and ethics</p> <p>Advertisement and Women</p> <p>Pornography</p> <p>Related Laws and case studies:</p> <p>Indecent Representation</p> <p>D12:D13of Women (Prohibition) Act, 1986 and rules1987,</p> <p>Protection of Women against Sexual Harassment Bill,2007, Sec67 of ITAct 2000 and Section 292, 293, 294 of IPC</p> <p>Remedial session</p>	15	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step III:</p> <p>Data collection:</p> <p>Survey</p> <p>Focus group discussion</p> <p>Personal interview</p> <p>Remedial session</p>	7
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APRI L	<p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 3: Contd.</p> <p>Brahmabandhab Upadhyay,</p> <p>Raja Rammohan Roy,</p> <p>Gandhiji as a political communicator, journalist and editor Remedial session</p>	9	<p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 4: Media and Regulation</p> <p>Regulatory bodies, Codes and Ethical Guidelines</p> <p>Self Regulation</p> <p>MediaContent DebatesonmoralityandA cc ountability: Taste,CultureandTaboo</p> <p>Censorship and media debates</p> <p>Remedial session</p>	13	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step IV:</p> <p>Data presentation through pie chart, bar chart etc</p> <p>Data analysis</p> <p>Remedial session</p>	7
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MAY	<p>Theory:</p> <p>CC 3: Reporting and Editing for Print</p> <p>UNIT 2: Interviewing/Types of news leads</p> <p>Interviewing: doing the research, setting up the interview, conducting the interview</p> <p>News Leads/intros,</p> <p>Structure of the News Story–Inverted Pyramid style;</p> <p>Lead: importance, types of lead; body of the story;</p> <p>Attribution, verification</p> <p>Remedial session</p>	11	<p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 5: Media and Social Responsibility</p> <p>Economic Pressures</p> <p>Media reportage of marginalized sections children, dalits, tribals,</p> <p>Gender Media coverage of violence and related laws - inflammatory writing(IPC353)</p> <p>Sedition- incitement to violence, hate speech.</p> <p>RelevantCaseStudies on defamation, contempt of court</p> <p>Remedial session</p>	14	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step V:</p> <p>Objective wise data interpretation</p> <p>Findings Conclusion Further</p> <p>Suggestion</p> <p>Remedial session</p>	6
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JUNE	<p>Theory:</p> <p>CC 3: Reporting and Editing for Print</p> <p>Unit II: Contd.</p> <p>Articles, features, types of features and human interest stories,</p> <p>leads for features,</p> <p>difference between articles and features.</p> <p>Mock test 1 of 60 marks and question discussion after Mock test</p> <p>Mock test 2 of 60 marks and question discussion after Mock test</p>	10	<p>Mock test:</p> <p>Mock test 1 of 60 marks and question discussion after Mock test</p> <p>Mock test 2 of 60 marks and question discussion after Mock test</p> <p>Mock test 3 of 60 marks and question discussion after Mock test</p> <p>Mock test 4 of 60 marks and question discussion after Mock test</p> <p>Mock test 5 of 60 marks and question discussion after Mock test</p>	10	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step VI:</p> <p>Sorting out references Report Presentation</p>	7
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DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM
TEACHING PLAN OF BAHNISIKHA GHOSH
MASS COMMUNICATION AND JOURNALISM (Honours) (July 2022 – Dec 2022)

Month	Sem-I (H)	No. of Classes	Sem-III (H)	No. of Classes	Sem-V (H)	No. of Classes
JULY	<p>Theory:</p> <p>CC2: Introduction to Media and Communication</p> <p>Unit II: Communication and Mass Communication</p> <p>Definition of Communication and its Process</p> <p>Forms of Communication: Verbal and Non verbal Communication</p> <p>Levels of communication: Intra, Inter, Group, Organizational</p> <p>Remedial session</p>	10	<p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio Unit I: Development of Radio</p> <p>Concept of wireless communication, Electromagnetic wave Radio's characteristics as an audio medium</p> <p>Evolution of radio in India and around the world</p> <p>AIR and its role a medium of mass communication , AIR, BBC,VOA management and comparative profile , Internet radio, HAM Radio</p> <p>Remedial session</p>	12	<p>Theory:</p> <p>DSE 1: Communication Research & Methodology</p> <p>Unit I: Introduction to Research concept of research and it's methodology</p> <p>Communication research</p> <p>Basic and Applied Research, scientific approach, Role of Theory in research, Steps of Research: Research question Hypothesis Literature Review Research Design Data Collection Data</p>	11

					presentation Data analysis Remedial session	
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AUG	<p>Theory: CC2: Introduction to Media and Communication Unit II: Communication and Mass Communication Levels of communication: Public Communication, Mass line Communication, Mass Communication and its Process Model vs Theory (Linear to Non-linear) Aristotle's Model of Communication Laswell Model Shanon Weaver Model SMCR Model Wilbur Schramm model Remedial session</p>	11	<p>Theory: CC 5: Introduction to Broadcast Media: Radio Unit 2- Radio news Types of radio news bulletins and their structures, Style and presentation of Radio news , News reader- qualities and duties , Radio newsroom-structure and function , OB VAN, News production, Live broadcasting, News Service Division Remedial session</p>	15	<p>Theory: DSE 1: Communication Research & Methodology Unit II: Methods of Media Research Variables and its types Qualitative Quantitative Technique, Content Analysis, Survey Method, Observation Methods, Experimental Studies, Case Studies, Narrative Analysis, Historical research. Remedial session</p>	12
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SEPT	<p>Theory:</p> <p>CC2: Introduction to Media and Communication</p> <p>Unit II: Communication and Mass Communication</p> <p>Normative Theories of the Press: Authoritarian theory Libertarian theory Communist media theory Social responsibility theory</p> <p>Media and the Public Sphere: Formation of public sphere (State, market and civil society) And the formation of public opinion</p> <p>Remedial session</p>	12	<p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 3: Radio</p> <p>Programme Radio</p> <p>interview,</p> <p>Types format of the interview,</p> <p>Panel discussion,</p> <p>Radio talk, Radio features, Radio package,</p> <p>Illustrated reading, Storytelling</p> <p>Remedial Session</p>	13	<p>Theory:</p> <p>DSE 1: Communication Research & Methodology</p> <p>Unit III: Sampling</p> <p>Sampling, Need for Sampling, Representativeness of the Samples,</p> <p>Universe and Population Sampling Methods, Probability sampling and its types</p> <p>Non probability sampling and its types</p> <p>Sampling Error and Non sampling Error</p> <p>Remedial session</p>	11
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OCT	<p>Theory:</p> <p>CC1: Introduction to Journalism</p> <p>Unit II: Different Forms of print-Ahistorical Perspective</p> <p>Yellow journalism Penny press Tabloid press</p> <p>Reporters-Print to electronic to digitalization</p> <p>Remedial session</p>	7	<p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 4: Radio Production & editing</p> <p>Art of scripting,</p> <p>Uses, norms of microphones, different forms of microphones,</p> <p>Acoustic treatment of audio studio</p> <p>Remedial session</p>	10	<p>Theory:</p> <p>DSE 1: Communication Research & Methodology</p> <p>Unit II: Contd.</p> <p>Tools of data collection: Primary and Secondary data</p> <p>Questionnaire: Open and close-ended question</p> <p>Focus Group Discussion Interview Fieldwork through Surveys,</p> <p>Telephonic surveys, Online Polls, Published and Unpublished</p> <p>work. Remedial session</p>	8
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NOV	<p>Theory:</p> <p>CC1: Introduction to Journalism</p> <p>Unit II: Different Forms of print-Ahistorical Perspective</p> <p>Citizen journalism-from letter to the editor to WhatsApp</p> <p>Robert Gunning: Principles of clear writing</p> <p>Rudolf Flesch: Readability Test</p> <p>Remedial session</p>	9	<p>Theory:</p> <p>CC 5: Introduction to Broadcast Media: Radio</p> <p>Unit 4: Contd.</p> <p>Digital editing- sound card etc ,</p> <p>Uses of Sound effects, Digital Editing consoles, audio mixing techniques</p> <p>Digital editing through Sound Wrap- up, crossfade ,</p> <p>Editor & Editing- dos and don'ts ,</p> <p>Production and post production, Radio programme</p> <p>budget Remedial session</p>	13	<p>Theory:</p> <p>DSE 1: Communication Research & Methodology</p> <p>Unit IV: Methods of Analysis and report writing</p> <p>Data Analysis Techniques; Coding and Tabulation, Non-Statistical Methods: Descriptive and Historical Method</p> <p>Working with Archives</p> <p>Library Research</p> <p>Working with the Internet as a source Writing Citations, Bibliography</p> <p>Writingtheresearch report</p> <p>Remedial session</p>	12
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DEC	<p>Theory: CC1: Introduction to Journalism Unit III: Understanding the Structure and Construction of News Organising a news story, Inverted pyramid (5W's and 1H) Criteria for newsworthiness, Principles of news selection Use of archives, sources of news, use of internet Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test</p>	7	<p>Theory: CC 5: Introduction to Broadcast Media: Radio Unit 5: FM broadcasting Emergences of Public & Private FM in India, Format of FM Programme Popularity and acceptance of FM among the audience, Market potentiality of FM programme, Radio in rural India Community radio-scope and applications Community Radio in India, Nepal & Bangladesh, Content and coverage of rural based programme in Radio Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test</p>	13	<p>Theory: DSE 1: Communication Research & Methodology Unit V: Ethnographies and other Methods Readership and Audience Surveys Ethnographies, textual analysis, discourse analysis Ethical Perspectives of mass media research Mock test 1 of 60 marks and question discussion after Mock test Mock test 2 of 60 marks and question discussion after Mock test</p>	12
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DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM
TEACHING PLAN OF BAHNISIKHA GHOSH
MASS COMMUNICATION AND JOURNALISM (Honours) (Jan 2023 – June 2023)

Month	Sem-II (H)	No. of Classes	Sem-IV (H)	No. of Classes	Sem-V (H)	No. of Classes
JAN	<p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 2: Indian Press – Some Major Journals and Newspapers of PreIndependence days</p> <p>Bengal Gazette and James Augustus Hickey,</p> <p>Samachar Darpan,</p> <p>Calcutta Journal and James Silk Buckingham,</p> <p>Sambad Kaumudi</p> <p>Remedial session</p>	12	<p>Theory:</p> <p>CC 10 : Media Ethics and the Law</p> <p>Unit-I Ethical Framework And Media practice</p> <p>Constitution of India Indian Penal Code, 1860</p> <p>Freedom of expression Article19(1)(a) and article 19 (2)</p> <p>Freedom of expression and defamation- Libel and slander</p> <p>Issues of privacy and Surveillance in Society</p> <p>Right to Information</p> <p>Working journalist</p> <p>act Contempt of court</p> <p>Remedial session</p>	13	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step I: Ethnographic studies Participatory development Sustainable development Community outreach programme</p> <p>Problem identification Literature review</p> <p>Remedial session</p>	9

FEB	<p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit II: Contd.</p> <p>Samachar Chandrika,</p> <p>Bengal Spectator,</p> <p>Parthenon ,</p> <p>Gyananweshan ,</p> <p>SambadPravakar ,</p> <p>Yugantar</p> <p>Remedial session</p>	10	<p>Theory:</p> <p>CC 10 : Media Ethics and the Law</p> <p>Unit 2: Media Technology and Ethical Parameters</p> <p>Live reporting and ethics Legality</p> <p>Ethicality of Sting Operations,</p> <p>Discussion of Important cases-eg-Operation Westend</p> <p>Phone Tapping etc</p> <p>Ethical issues in Social media (IT Act 2000,</p> <p>Sec66A and the verdict of The supreme court)</p> <p>Some Related laws</p> <p>Relevant sections of Broadcast Bill,</p> <p>NBA guidelines</p> <p>Remedial session</p>	14	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step II:</p> <p>Research question</p> <p>Hypothesis</p> <p>Research design</p> <p>Remedial session</p>	7
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MAR	<p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 3:</p> <p>Role of Derozio ,</p> <p>Sishir Basu & Amritabazar Patrika ,</p> <p>Harish Chandra Mukhopadhyay & Hindoo Patriot</p> <p>Remedial session</p>	9	<p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 3- Representation and ethics</p> <p>Advertisement and Women</p> <p>Pornography</p> <p>Related Laws and case studies:</p> <p>Indecent Representation</p> <p>D12:D13of Women (Prohibition) Act, 1986 and rules1987,</p> <p>Protection of Women against Sexual Harassment Bill,2007, Sec67 of ITAct 2000 and Section 292, 293, 294 of IPC</p> <p>Remedial session</p>	15	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step III:</p> <p>Data collection:</p> <p>Survey</p> <p>Focus group discussion</p> <p>Personal interview</p> <p>Remedial session</p>	7
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APRI L	<p>Theory:</p> <p>CC 4: Development of Media in India and Bengal</p> <p>Unit 3: Contd.</p> <p>Brahmabandhab Upadhyay,</p> <p>Raja Rammohan Roy,</p> <p>Gandhiji as a political communicator, journalist and editor Remedial session</p>	9	<p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 4: Media and Regulation</p> <p>Regulatory bodies, Codes and Ethical Guidelines</p> <p>Self Regulation</p> <p>MediaContent DebatesonmoralityandA cc ountability: Taste,CultureandTaboo</p> <p>Censorship and media debates</p> <p>Remedial session</p>	13	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step IV:</p> <p>Data presentation through pie chart, bar chart etc</p> <p>Data analysis</p> <p>Remedial session</p>	7
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MAY	<p>Theory:</p> <p>CC 3: Reporting and Editing for Print</p> <p>UNIT 2: Interviewing/Types of news leads</p> <p>Interviewing: doing the research, setting up the interview, conducting the interview</p> <p>News Leads/intros,</p> <p>Structure of the News Story–Inverted Pyramid style;</p> <p>Lead: importance, types of lead; body of the story;</p> <p>Attribution, verification</p> <p>Remedial session</p>	11	<p>Theory:</p> <p>CC 10: Media Ethics and the Law</p> <p>Unit 5: Media and Social Responsibility</p> <p>Economic Pressures</p> <p>Media reportage of marginalized sections children, dalits, tribals,</p> <p>Gender Media coverage of violence and related laws - inflammatory writing(IPC353)</p> <p>Sedition- incitement to violence, hate speech.</p> <p>RelevantCaseStudies on defamation, contempt of court</p> <p>Remedial session</p>	14	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step V:</p> <p>Objective wise data interpretation</p> <p>Findings Conclusion Further</p> <p>Suggestion</p> <p>Remedial session</p>	6
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JUNE	<p>Theory:</p> <p>CC 3: Reporting and Editing for Print</p> <p>Unit II: Contd.</p> <p>Articles, features, types of features and human interest stories,</p> <p>leads for features,</p> <p>difference between articles and features.</p> <p>Mock test 1 of 60 marks and question discussion after Mock test</p> <p>Mock test 2 of 60 marks and question discussion after Mock test</p>	10	<p>Mock test:</p> <p>Mock test 1 of 60 marks and question discussion after Mock test</p> <p>Mock test 2 of 60 marks and question discussion after Mock test</p> <p>Mock test 3 of 60 marks and question discussion after Mock test</p> <p>Mock test 4 of 60 marks and question discussion after Mock test</p> <p>Mock test 5 of 60 marks and question discussion after Mock test</p>	10	<p>Practical:</p> <p>DSE 4: Community Outreach Programme</p> <p>Step VI:</p> <p>Sorting out references Report Presentation</p>	7
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DEPARTMENT OF COMPUTER SCIENCE

TEACHING PLAN OF SRI HARADHAN MARDI Computer Science (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory: CC-1A: Problem Solving using Computer Unit1: Computer Fundamentals Unit2: Planning the Computer Program Unit3: Techniques of Problem Solving	14	Theory CC-1C: Operating Systems Unit1: Introduction Unit2: Types of operating systems Unit3: Operating System Organization Practical CC-1C: Operating Systems Shell scripting with basic commands	14	Theory DSE-1A: Programming in Java Unit1: Introduction to Java Unit2: Object Oriented Programming Concept Unit3: Java Programming Fundamental	13
	Practical CC-1A: Problem Solving using Computer Learning about hardware and software		4		Theory SEC1: Office Automation Tools Unit1: Introduction to open office/MS office/Libre office Unit2: Word Processing Practical SEC1: Office Automation Tools MS Word	
				4	Theory SEC3: MySQL/ PL-SQL Unit1: SQL Vs. SQL * Plus Unit2: Managing Tables and Data	4
				2	Practical SEC3: MySQL/ PL-SQL SQL commands	2
Aug	Theory: CC-1A: Problem Solving using Computer Unit4: Overview of Programming Unit5: Introduction to Python Practical CC-1A: Problem Solving using Computer Section A (Simple programs): Solving simple mathematical problems.	12	Theory CC-1C: Operating Systems Unit 4: Process Management Practical CC-1C: Operating Systems Shell scripting Theory SEC1: Office Automation Tools Unit2: Word Processing Practical SEC1: Office Automation Tools MS Word	15	Theory DSE-1A: Programming in Java Unit3: Java Programming Fundamental Unit4: Classes and Objects Practical DSE-1A: Programming in Java Programming using concepts of Classes and objects Theory SEC3: MySQL/ PL-SQL Unit2: Managing Tables and Data Practical SEC3: MySQL/ PL-SQL SQL Functions	12
			4	4	4	
				2		4
						2
Sept	Theory: CC-1A: Problem Solving using Computer Unit6: Creating Python Programs Practical CC-1A: Problem Solving using Computer Section A (Simple programs): Programming using control statement	10	Theory CC-1C: Operating Systems Unit 5: Scheduling Practical CC-1C: Operating Systems Shell scripting Theory SEC1: Office Automation Tools Unit3: Spreadsheets Practical SEC1: Office Automation Tools MS Excel	12	Theory DSE-1A: Programming in Java Unit4: Classes and Objects Unit5: Arrays and Strings Practical DSE-1A: Programming in Java Programming using concepts of Classes, Objects, Strings and Arrays Theory SEC3: MySQL/ PL-SQL Unit3: Other Database Objects Practical SEC3: MySQL/ PL-SQL SQL Functions	12
			4	4	4	
				2		4
						2
Oct	Theory: CC-1A: Problem Solving using Computer Unit7: Structures Practical CC-1A: Problem Solving	10	Theory CC-1C: Operating Systems Unit 6: Memory Management Practical CC-1C: Operating Systems	8	Theory DSE-1A: Programming in Java Unit 6: Abstract Class, Interface and Packages Practical	8
				4		

	using Computer Section A(Simple programs):Programming using different structures	4	Shell scripting Theory SEC1:Office Automation Tools Unit3: Spreadsheets Special class Practical SEC1:Office Automation Tools MS Excel	2 2	DSE-1A: Programming in Java Programming with the concepts of Abstract Class, Interface and Packages Theory SEC3: MySQL/ PL-SQL Unit4: Transaction Control Statements Practical SEC3: MySQL/ PL-SQL PL/SQL	4 4 2
Nov	Theory: CC-1A: Problem Solving using Computer Unit9: Introduction to Advanced Python Practical CC-1A: Problem Solving using Computer Section B (Visual Python):Programming Visual Python	14 4	Theory CC-1C: Operating Systems Unit 6: Memory Management Unit7: Shell introduction and Shell Scripting Practical CC-1C: Operating Systems Shell scripting Theory SEC1:Office Automation Tools Unit4: Presentation Tools Practical SEC1:Office Automation Tools MS PowerPoint	8 4 4 2	Theory DSE-1A: Programming in Java Unit7:Exception Handling Unit8: File Handling Practical DSE-1A: Programming in Java Programming with Exception Handling and File Handling Theory SEC3: MySQL/ PL-SQL Unit4: Transaction Control Statements Practical SEC3: MySQL/ PL-SQL PL/SQL	9 4 4 2
	Theory: CC-1A: Problem Solving using Computer Special classes + doubt clearing+ discussions Practical CC-1A: Problem Solving using Computer Practice classes	4 2	Theory CC-1C: Operating Systems Unit7: Shell introduction and Shell Scripting Practical CC-1C: Operating Systems Shell scripting Theory SEC1:Office Automation Tools Unit4: Presentation Tools Practical SEC1:Office Automation Tools MS PowerPoint	3 2 2 2	Theory DSE-1A: Programming in Java Unit9:Applet Programming Practical DSE-1A: Programming in Java Applet Programming Theory SEC3: MySQL/ PL-SQL Special Classes Practical SEC3: MySQL/ PL-SQL Practice classes	6 2 2 2
Dec	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
	Theory CC-1B: Database Management Systems Unit1: Introduction to Database Management Systems Practical CC-1B: Database Management Systems DDL commands	10 8	Theory CC-1D: Computer System Architecture Unit 1:Introduction Practical CC-1D: Computer System Architecture Designing instruction set Theory SEC-2: HTML Programming Unit 1: Introduction Unit2: The basics Practical SEC-2: HTML Programming Applying basic commands	12 4 5 2	Theory DSE-1B: Computer Networks Unit1: Basic concepts Practical DSE-1B: Computer Networks Simulating Checksum Algorithm Theory SEC4: PHP Programming Unit 1:Introduction to PHP Unit 2:Handling HTML form with PHP Practical SEC4: PHP Programming Solving basic mathematical problems	16 4 6 2
Jan						

Feb	Theory CC-1B: Database Management Systems Unit 2: Entity Relationship and Enhanced ER Modeling	15	Theory CC-1D: Computer System Architecture Unit 2: Data Representation and basic Computer Arithmetic Unit 3: Basic Computer Organization and Design	14	Theory DSE-1B: Computer Networks Unit 2: Physical Layer Unit 3: Data Link Layer Practical DSE-1B: Computer Networks Simulating CRC Algorithm	14
	Practical CC-1B: Database Management Systems DML commands	8	Practical CC-1D: Computer System Architecture Problem solving using register reference instructions	4	Theory SEC-4: PHP Programming Unit 3: PHP conditional events and Loops	4
			Theory SEC-2: HTML Programming Unit 3: Links	3	Practical SEC-4: PHP Programming Solving mathematical problems using array	3
			Practical SEC-2: HTML Programming Creating links	2		2
Mar	Theory CC-1B: Database Management Systems Unit 3: Relational Data Model	15	Theory CC-1D: Computer System Architecture Unit 3: Basic Computer Organization and Design	12	Theory DSE-1B: Computer Networks Unit 4: Network Layer Unit 5: Transport Layer Practical DSE-1B: Computer Networks Simulating Stop & Wait Protocol	14
	Practical CC-1B: Database Management Systems Query solving with SQL commands	8	Practical CC-1D: Computer System Architecture Problem solving using memory-reference instructions	4	Theory SEC-4: PHP Programming Unit 4: PHP Functions	4
			Theory SEC-2: HTML Programming Unit 4: Images	4	Practical SEC-4: PHP Programming Solving mathematical problems using string	3
			Practical SEC-2: HTML Programming Creating images	2		2
Apr	Theory CC-1B: Database Management Systems Unit 4: Database design	10	Theory CC-1D: Computer System Architecture Unit 4: Central Processing Unit	10	Theory DSE-1B: Computer Networks Unit 6: Application Layer Practical DSE-1B: Computer Networks Simulate Go-Back-N Protocol	10
	Practical CC-1B: Database Management Systems Query solving with SQL commands	8	Practical CC-1D: Computer System Architecture Problem solving using input-output reference instructions	4	Theory SEC-4: PHP Programming Unit 5: String Manipulation and Regular Expression	4
			Theory SEC-2: HTML Programming Unit 5: Tables	4	Practical SEC-4: PHP Programming Solving mathematical problems using loop	4
			Practical SEC-2: HTML Programming Creating tables	2		2

May	Theory CC-1B: Database Management Systems Unit 4: Database design	10	Theory CC-1D: Computer System Architecture Unit 5: Programming the Basic Computer Unit 6: Input-output Organization	12	Theory DSE-1B: Computer Networks Unit 7: Network Security	6
	Practical CC-1B: Database Management Systems Query solving with SQL commands	8	Practical CC-1D: Computer System Architecture Problem solving using different type reference instructions	4	Practical DSE-1B: Computer Networks Simulating Selective Repeat Protocol	4
			Theory SEC-2: HTML Programming Unit 6: Forms	5	Theory SEC4: PHP Programming Unit 6: Array	4
			Practical SEC-2: HTML Programming Creating forms	2	Practical SEC4: PHP Programming Solving mathematical problems using recursion	2
June	Theory CC-1B: Database Management Systems Special class	4	Theory CC-1D: Computer System Architecture Special class	2	Theory DSE-1B: Computer Networks Special Classes	2
	Practical CC-1B: Database Management Systems Query solving with SQL commands	4	Practical CC-1D: Computer System Architecture Repeat practical Class	1	Practical DSE-1B: Computer Networks Repeat practical Class	1
			Theory SEC-2: HTML Programming Special class	1	Theory SEC4: PHP Programming Special classes	2
			Practical SEC-2: HTML Programming Repeat practical Class	1	Practical SEC4: PHP Programming Repeat practical Class	2

Department of Computer Science

Haradwan Mardi

Head of the Department

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DEPARTMENT OF CHEMISTRY


TEACHING PLAN OF PROF TRIJIT BHATTACHARYYA

Chemistry (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lectures	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
Jul			Theory:SEC-1: Analytical clinical biochemistry: Carbohydrates Part 1	4		
Aug			Theory:SEC-1: Analytical clinical biochemistry: Carbohydrates part 2	4	:	
Sept			; Theory:SEC-1: Analytical clinical biochemistry:Proteins Part 1	4	.	
Oct			Theory:SEC-1: Analytical clinical biochemistry: Proteins Part 2	3		
Nov			Theory:SEC-1: Analytical clinical biochemistry: Structure of DNA and RNA	5		

Dec			Theory:SEC-1: Analytical clinical biochemistry: Enzymes	2 2		
Jan	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
	Theory : CC-1B (Theo) : Comparative study of p-block elements B-Al-Ga-In-Tl	3	Theory : CC-1D: Chromatographic methods	3		
Feb	Theory : CC-1B (Theo) Comparative study of p-block elements C-Si-Ge-Sn-Pb	4	Theory : CC-1D : Volumetric analysis of NaHCO ₃ and Na ₂ CO ₃ by acidimetry	4		
Mar	Theory : CC-1B (Theo) Comparative study of p-block elements N-P-As-Sb-Bi	4	Theory : CC-1D Environmental Chemistry: The Atmosphere,Structure and composition .	4		
Apr	Theory : CC-1B (Theo)		Theory : CC-1D: Environmental			

	Comparative study of p-block elements O-S-Se-Te	4	Chemistry: The Atmosphere, Pollutants	2		
May	Theory : CC-1B: Comparative study of p-block elements F-Cl-Br-I	3	Theory : CC-1D Environmental Chemistry: The Atmosphere, problem of ozone layer depletion	3		
June	Theory : CC-1B: Special classes .	2	Theory : CC-1D: Environmental Chemistry: The Atmosphere pollution control measures	1		


 HEAD OF THE DEPT. OF CHEMISTRY
 SURI VIDYASAGAR COLLEGE

Head of the Department,
 Department of Chemistry,
 Suri Vidyasagar College

DEPARTMENT OF CHEMISTRY

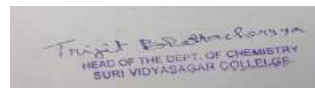
TEACHING PLAN OF PROF PANKAJ ROY Chemistry (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lect	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
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		ures				
Jul			Theory:CC-1C: Chemical Energetics ;thermodynamics;state and path functions; Practical : Measurement of pH of different solutions	4 4	Theory SEC-3: Basics & Application of Computer in Chemistry <i>Mathematics</i> ;Fundamentals:	4
Aug			Theory:CC-1C: Chemical Energetics ;thermodynamics;Concept of heat, work, internal energy and statement of first law; Practical : Measurement of pH of different solutions	4 4	Theory SEC-3: Basics & Application of Computer in Chemistry <i>Mathematics</i> ;Uncertainty in measurement:	4
Sept			Theory:CC-1C: Chemical Energetics ;thermodynamics;Heats of reaction; Practical : Preparation of buffer solutions and find the pH	4 6	Theory:SEC-3: Basics & Application of Computer in Chemistry <i>Mathematics</i> ;Differential calculus:	4
Oct			Theory:CC-1C: Chemical Energetics ;thermodynamics;Laws of thermochemistry; Practical : Study of the solubility of benzoic acid in water	3 2	Theory : SEC-3: Basics & Application of Computer in Chemistry <i>Computer Programming</i> ;Simple computer programs,Statistical analysis.	3

Nov			Theory:CC-1C: Chemical Energetics ;thermodynamics;second law of thermodynamics; Practical : Practice.	5 2	Theory:SEC-3 :Basics & Application of Computer in Chemistry <i>Computer Programming ;BASIC</i> programs for curve fitting, finding roots.	3
Dec			Theory:CC-1C: Special classes: Practical Practice.	2 2	Theory : SEC-3:Special classes:	2
Jan	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
	Theory : CC-1B (Theo) : Kinetic Theory of Gases and Real gases . Practical : Surface tension measurement	3 2	Theory : CC-1D:Solutions ; Ideal solutions and Raoult's law ; Practical : CC-1D: Distribution Law;Study of the equilibrium	3 2	Theory : SEC-4 :Introduction and history of polymeric materials. Theory: DSE-1B: Industrial Chemistry; Polymers: basic concept.	2 2
Feb	Theory : CC-1B (Theo) Surface tension, Viscosity of a liquid . Practical : Study of the variation of surface tension of a detergent solution with concentration	4 2	Theory : CC-1D :Solutions; Distillation of solutions; curves of ideal and non-ideal solutions; Practical : CC-1D: potentiometric titration:	4 4	Theory : SEC-4: Functionality and its importance in polymer chemistry. Theory : DSE-1B: structure and types of plastics.	2 2

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Department of Chemistry,
Suri Vidyasagar College

TEACHING PLAN OF DEBABRATA SAHA
Chemistry (General) (2022-23) (July 2022-June 2023)

Month	SEM I(G)	SEM-III(G)	SEM-V
Jul	MODULE-02 (Chemical Periodicity) UNIT-I Classification of elements on the basis of electronic configuration: general characteristics of s-, p-, d- and f-block elements.	NO CLASSES	MODULE-01 UNIT-I (Transition Elements(3d): General group trends with special reference to electronic configuration, variable valency, colour, magnetic and catalytic properties, ability to form complexes and stability of various oxidation states (Latimer diagrams) for Mn, Fe and Cu.
Aug	MODULE-02 (Chemical Periodicity) UNIT-II Positions of hydrogen and noble gases. Atomic and ionic radii, ionization potential, electron affinity, and electronegativity.	NO CLASSES	MODULE-01 UNIT-II (Lanthanoids and actinoids): Electronic configurations, oxidation states, colour, magnetic properties, lanthanide contraction, separation of lanthanides (ion exchange method only).
Sept	MODULE-02 (Chemical Periodicity) UNIT-III Periodic and group-wise variation of above properties in respect of s- and p- block elements.	NO CLASSES	MODULE-04 UNIT-I (Error analysis): accuracy and precision of quantitative analysis, determinate, indeterminate, systematic and random errors; methods of least squares and standard deviations.
Oct	MODULE-04 (Redox reactions) UNIT-I Balancing of equations by oxidation number and ion-electron method oxidimetry and reductimetry.	NO CLASSES	MODULE-05 UNIT-I (Fertilizers): manufacture of ammonia & ammonium salts, urea, superphosphate, biofertilizers. UNIT-II (Cement): Portland cement: composition and setting of cement, white cement.
Nov	Special classes+ doubt clearing+ discussions	NO CLASSES	Problem solving + discussions and evaluation.
Dec	Doubt clearing+ discussions + evaluation.	NO CLASSES	Problem solving + discussions and evaluation.
Jan	SEM-II (G)	SEM-IV(G)	SEM-VI (G)
	MODULE-5B UNIT-III Covalent bonding: VB Approach: Shapes of some inorganic molecules and ions on the basis of VSEPR and hybridization with suitable examples of linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral arrangements.	NO CLASSES	NO CLASSES
Feb	MODULE-5C UNIT-IV Concept of resonance and resonating structures in various inorganic and organic compounds.	NO CLASSES	NO CLASSES
Mar	MODULE-5D UNIT-V MO Approach: Rules for the LCAO method, bonding and antibonding MOs and their characteristics for s-s, s-p and p-p combinations of atomic orbitals, nonbonding combination of orbitals.	NO CLASSES	NO CLASSES
Apr	MODULE-05 UNIT-VI MO treatment of homonuclear diatomic molecules of 1st and 2nd periods. (including idea of s- p mixing) and heteronuclear diatomic molecules such as CO, NO and NO+. Comparison of VB and MO approaches.	NO CLASSES	NO CLASSES
May	Special classes+ doubt clearing+ discussions.	NO CLASSES	NO CLASSES
Jun	Doubt clearing+ discussions + evaluation.	NO CLASSES	NO CLASSES



Head of the Department,
Department of Chemistry
Suri Vidyasagar College

SURI VIDYASAGAR COLLEGE
Department of Chemistry
Teaching Plan of Dr. Sandip Mondal for the General Course (2022-2023)

Month	SEM-I	SEM-III	SEM-V
Jul	Course Code-CC-1A/GE-1 Atomic Structure: Bohr's theory for hydrogen atom (simple mathematical treatment), atomic spectra of hydrogen and Bohr's model, Sommerfeld's model. quantum numbers and their significance	Course Code-CC-1C/GE-3 <i>Ionic Equilibria:</i> Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water.	Course Code-DSE-1A/GE-5 <i>Coordination Chemistry</i> a. Werner's coordination theory, Valence Bond Theory (VBT): Inner and outer orbital complexes of Cr, Fe, Co, Ni and Cu (coordination numbers 4 and 6).
Aug	Course Code-CC-1A/GE-1 Atomic Structure: Quantum numbers and their significance, Pauli's exclusion principle, Hund's rule, electronic configuration of many-electron atoms, Aufbau principle and its limitations	Course Code-CC-1C/GE-3 Ionization of weak acids and bases, pH scale, common ion effect Salt hydrolysis-calculation of hydrolysis constant, degree of hydrolysis and pH for different salts.	Course Code-DSE-1A/GE-5 Structural and stereoisomerism in complexes with coordination numbers 4 and 6. b. Drawbacks of VBT; IUPAC system of nomenclature.
Sept	Course Code-CC-1A/GE-1 Acids and bases: Brønsted–Lowry concept, conjugate acids and bases, relative strengths of acids and bases, effects of substituent and solvent, differentiating and levelling solvents.	Course Code-CC-1C/GE-3 Buffer solutions; Solubility and solubility product of sparingly soluble salts – applications of solubility product principle.	Course Code-DSE-1A/GE-5 Crystal field effect, octahedral symmetry. Crystal field stabilization energy (CFSE), Crystal field effects for weak and strong fields.
Oct	Course Code-CC-1A/GE-1 Acids and bases: Lewis acid-base concept, classification of Lewis acids and bases, Lux-Flood concept and solvent system concept.	Special class, questions -answers discussion and evaluation.	Course Code-DSE-1A/GE-5 Tetrahedral symmetry. Spectrochemical series. Comparison of CFSE for Oh and Td complexes, Tetragonal distortion of octahedral geometry.
Nov	Course Code-CC-1A/GE-1 Acids and bases: Hard and soft acids and bases (HSAB concept), applications of HSAB process.	Special class, questions -answers discussion and evaluation.	Course Code-DSE-1A/GE-5 Jahn-Teller distortion, Square planar coordination
Dec	Special class, questions -answers discussion and evaluation.	Special class, questions -answers discussion and evaluation.	Special class, questions -answers discussion and evaluation.
	SEM-II	SEM-IV	SEM-VI
Jan	Course Code-CC-1B/GE-2 Ionic Bonding: General characteristics of ionic bonding. Energy considerations in ionic bonding, lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds.	Course Code-CC-1D/GE-4 Volumetric analysis: primary and secondary standard substances; principles of acid-base, oxidation –reduction and complexometric titrations.	NO CLASSES

Feb	Course Code-CC-1B/GE-2 Statement of Born-Landé equation for calculation of lattice energy, Born-Haber cycle and its applications, polarizing power and polarizability	Course Code-CC-1D/GE-4 Indicators: acid-base, redox and metal ion, principles of estimation of mixtures: NaHCO ₃ and Na ₂ CO ₃ (by acidimetry)	NO CLASSES
Mar	Course Code-CC-1B/GE-2 Fajan's rules, ionic character in covalent compounds, bond moment, dipole moment and percentage ionic character.	Course Code-CC-1D/GE-4 Principles of estimation of mixtures: iron, copper, manganese and chromium (by redox titration); zinc, aluminum, calcium and magnesium (by complexometric EDTA titration).	NO CLASSES
Apr	Course Code-CC-1B/GE-2 Comparative study of p-block elements: Group trends in electronic configuration, modification of pure elements, common oxidation states, inert pair effect, and their important compounds in respect of the following groups of elements: i. B-Al-Ga-In-Tl ii. C-Si-Ge-Sn-Pb	Course Code-CC-1D/GE-4 Chromatography: Chromatographic methods of analysis: column chromatography and thin layer chromatography.	NO CLASSES
May	Course Code-CC-1B/GE-2 Comparative study of p-block elements: Group trends in electronic configuration, modification of pure elements, common oxidation states, inert pair effect, and their important compounds in respect of the following groups of elements: iii. N-P-As-Sb-Bi iv. O-S-Se-Te v. F-Cl-Br-I	Course Code-CC-1D/GE-4 Gravimetric analysis: solubility product and common ion effect; requirements of gravimetry; gravimetric estimation of chloride, sulphate, lead, barium, nickel, copper and zinc.	NO CLASSES
June	Special/Remedial class, questions -answer discussions and numerical problem solve	Special/Remedial class, questions -answer discussions and numerical problem solve	NO CLASSES


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 SURI VIDYASAGAR COLLEGE

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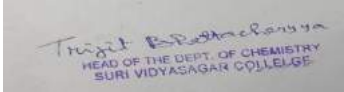
DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF Mrs. Ishani Sinha
Chemistry (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory: CC1A/GE1: Electronic Displacement: Inductive Effect, Resonance, Hyperconjugation, Homolytic and Heterolytic fission of bonds, Structure of organic molecules on the basis of VBT, Nucleophile, Electrophile, Reactive Intermediate: Carbonation, Carbanion, Free Radicals. Practical CC1A/ GE1: Lassaigne Test: Detection of Special Elements	6 2	Theory CC1C/GE3: Aromatic hydrocarbons: Benzene, preparation from phenol, decarboxylation, acetylene, benzene sulphonic acid. Reaction: General Mechanism of aromatic electrophilic substitution.	7	Theory DSE 1A: Fuels Practical DSE 1A: 1. Titration of Na ₂ CO ₃ and NaHCO ₃ mixture by HCl using Phenolphthalein indicator. 2. Practice classes.	3
			Practical CC1C/GE3: Identification of pure organic compounds: oxalic acid, succinic acid	2		2
Aug	Theory: CC1A/GE1: Stereochemistry CC1A/ GE 1: Solubility Test of solid organic compounds.	6 2	Theory CC1C/GE3: Nitration, Halogenation, Sulphonation, Friedel Craft Alkylation, acetylation and side chain oxidation of aromatic hydrocarbons.	5	Theory DSE 1A : Fertilizers Practical DSE1A: 1. Titration of HCl and CH ₃ COOH mixture by NaOH using different indicators. 2. Practice classes.	4
			Practical CC1C/GE3: Identification of pure organic compounds: Salicylic Acid, Benzoic Acid	2		2
Sept	Theory: CC1A/GE1: Substitution and Elimination Reaction: SN ₁ , SN ₂ , E ₁ , E ₂ , Saytzeff and Hoffmann Elimination Alkanes. Preparation: Catalytic hydrogenation, Wurtz Reaction, Kolbe Synthesis, From Grignard Reagent. Practical CC1A/GE1: Detection of functional group: -COOH, phenolic -OH, carbonyl group.	6 2	Theory CC1C/GE3: Aryl Halides, Preparation from Phenol, Sandmeyer Reaction, Nucleophilic Aromatic Substitution, Effect of Nitro group	4	Theory DSE 1A: Glass and Ceramics : Part 1 Practical DSE 1A: 1. Estimation of total hardness of water by standard EDTA solution. 2. Practice classes.	3
			Practical CC1C/GE3: Identification of pure organic compounds: Resorcinol, Urea	2		2
			,			
Oct	Theory: CC1A/ GE1: Reaction of alkanes: General Mechanism for free radical substitution and Halogenation; Alkene. Preparation: Dehydration of Alcohol, Dehydrohalogenation. Cis Alkene and Trans Alkene. Practical CC1A/GE1: Detection of functional group: Ar -NO ₂ and Ar -NH ₂ group	6 2	Theory CC1C/GE3 : Grignard Reagent, Preparation, Concept of Umpolung, Reformatsky reaction	4	Theory DSE 1A : Glass and Ceramics: Part 2 Practical DSE 1A: Practice classes	3
			Practical CC1C/GE3 : Identification of pure organic compounds: Glucose, Acetone	2		2
				2		
Nov	Theory: CC1A/GE1: Alkene. Cis		Theory CC1C/GE3 : Reimer Tiemann		Theory	

	addition, Trans addition, Markownikoff's Addition and anti Markownikoff's Addition, hydration, ozonolysis, oxymercuration, demercuration, hydroboration, oxidation. CC1A/GE1: Detection of unknown organic sample	4 2	Reaction, Houben Hoesch Reaction, Schotten Baumann Reaction, Fries and Claisen Rearrangements, Problems with examples Practical CC1C/GE3 :Identification of pure organic compounds: Aniline , Nitrobenzene	5 2 2	DSE 1A : Cement Practical DSE 1A : Practice classes	3 2
Dec	Theory: CC1A/GE1: Organic chemistry Alkyne. Preparation and conversion into higher alkynes. Formation of metal acetylides, addition of Br ₂ and alkaline KMnO ₄ Practical CC1A/GE1: Organic Chemistry Practice classes	4 2	Theory Revision and discussion of previous lessons Practical CC1C/GE3 :Unknown Samples	3 1 1	Theory DSE1A : Revision and doubt clearing classes Practical DSE 1A : Revision	3 3
	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
Jan	Theory CC1B/GE2: Practical CC1B/GE2:		Theory CC1D/GE4:Environmental Chemistry: Hydrosphere : Environmental Role of Water Practical CC1D/GE4: Estimation of total hardness of water by titration with EDTA.	4 2 2	Theory DSE-1B : Amino acids Practical DSE-1B: 1. Nitration of acetanilide 2.. practice classes	4 2
Feb	Theory CC1B/GE2: Practical CC1b/GE2 :		Theory CC1D/GE 2- Waste Water Management Practical CC1D/GE4: 3. Acid Catalysed Hydrolysis of Ester	3 2	Theory DSE-1B: Carbohydrates: Part 1 Practical DSE-1B : Hydrolysis of Benzamide, Practice classes	4 3

	Practical CC1b/GE2 :		bacterial and anti fungal drugs. Practical CC1D/GE4 : Revision	2	Parathion, DDT Practical DSE-1B : Estimation of Acetic acid in commercial vinegar	2 3
June	Theory CC1b/GE2 : Practical CC1b/ GE2 :		Theory SEC 2 : Synthesis, use and adverse effects of antiviral and CNS depressant drugs, HIV related drugs. Practical CC1D/GE4 : Practical Revision	4 3	Theory DSE 1B: Food additives Practical DSE-1B: Revision classes	3 2



Trupti B. Patil
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DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF SOURAV KUMAR DAS
Chemistry (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lectures	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
Jul	Practical CC-1A: Detection of special elements (N, Cl, and S) in organic compounds. 2. Solubility and Classification (solvents: H ₂ O, dil. HCl, dil. NaOH)	6	Theory CC-1C: Thermodynamic conditions for equilibrium, K _P , K _C and K _X	6		
Aug	Practical: CC-1A: Detection of functional groups: Aromatic-NO ₂ , Aromatic -NH ₂ ,	6	Theory CC-1C: van't Hoff's reaction isotherm, Le Chatelier's principle	6		
Sept	Practical : CC-1A: Detection of functional groups: -COOH, carbonyl, -OH (phenolic) in solid organic compounds. Estimation of Cu (II) ions iodometrically using Na ₂ S ₂ O ₃ .	10	Theory: CC-1C: degree of ionization, ionic product, Salt hydrolysis, pH	8		
Oct	Practical : CC-1A: Estimation of water of crystallization in Mohr's salt by titrating with KMnO ₄ . 4. Estimation of Fe (II) ions by titrating it with K ₂ Cr ₂ O ₇ using internal indicator.	6	Theory : CC-1C: Buffer solutions; Solubility, solubility product, applications	8		
Nov	Practical : CC-1A: Estimation of sodium carbonate and sodium hydrogen carbonate present in	8	Theory : SEC Biochemistry of disease	6		

	a mixture. 2. Estimation of oxalic acid by titrating it with KMnO_4 .					
Dec	Practical: CC-1A: Practice	4	Theory : CC-1C: Doubt clearing, special classes	4	;	
Jan	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
	PRACTICAL CC-1B Acid Radicals: Cl^- , Br^- , I^- , NO_2^- , NO_3^-	5	Theory : CC-1D: cell constant, specific conductance and molar conductance; Practical : CC-1D To find the total hardness of water by EDTA titration.	6 4	Theory : DSE-1B (Theo) Carboxylic acids (aliphatic and aromatic):	8
Feb	PRACTICAL CC-1B S^{2-} , SO_4^{2-} , PO_4^{3-} , BO_3^{3-} , H_3BO_3 .	5	Theory : Kohlrausch's law, Ostwald's dilution law; Ostwald's dilution law; Practical : CC-1D To find the PH of an unknown solution by comparing color of a series of HCl solutions + 1 drop of methyl orange,	10 4	Theory : DSE-1B Carboxylic acid derivatives (aliphatic):	6
Mar	PRACTICAL CC-1B Basic Radicals:	5	Theory : CC-1D: Faraday's laws of electrolysis, rules of	4	Theory : DSE-1B Carboxylic acid derivatives	

	Na ⁺ , K ⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ ,		oxidation/reduction of ions based on half-cell potentials, applications of electrolysis in metallurgy and industry Practical: CC-1D To find the PH of an unknown solution by comparing color of NaOH solutions + 1 drop of phenolphthalein.	4		8
Apr	PRACTICAL CC-1B Basic Radicals: Mn ²⁺ , Fe ³⁺ , Ni ²⁺ , Cu ²⁺ , NH ₄ ⁺ .	5	Theory : CC-1D Chemical cells, reversible and irreversible cells Practical :CC – 1D Determination of the strength of the H ₂ O ₂ sample. 5. To determine the solubility of a sparingly soluble salt, e.g. KHTa (one bottle	6 6	Theory : DSE-1B: Amines,	8
May	PRACTICAL CC-1B Practice class	4	Theory : CC-1D: Concentration cells Practical : CC-1D To determine the rate constant for the acid catalysed hydrolysis of an ester.	6 4	Theory: DSE-1B Diazonium salts, Nitro compounds	8
June	PRACTICAL CC-1B Practice class	4	Theory : THEORY: CC-1D Special classes PRACTICAL :CC-1D Practice class	4 6	Theory : DSE-1B Special classes Doubt clearing	5

Dr. K. S. Srinivasan
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DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF PROF TRIJIT BHATTACHARYYA

Chemistry (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lectures	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
Jul			Theory:SEC-1: Analytical clinical biochemistry: Carbohydrates Part 1	4		
Aug			Theory:SEC-1: Analytical clinical biochemistry: Carbohydrates part 2	4	:	
Sept			; Theory:SEC-1: Analytical clinical biochemistry:Proteins Part 1	4	.	
Oct			Theory:SEC-1: Analytical clinical biochemistry: Proteins Part 2	3		
Nov			Theory:SEC-1: Analytical clinical biochemistry: Structure of DNA and RNA	5		

Dec			Theory:SEC-1: Analytical clinical biochemistry: Enzymes	2 2		
Jan	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
	Theory : CC-1B (Theo) : Comparative study of p-block elements B-Al-Ga-In-Tl	3	Theory : CC-1D: Chromatographic methods	3		
Feb	Theory : CC-1B (Theo) Comparative study of p-block elements C-Si-Ge-Sn-Pb	4	Theory : CC-1D : Volumetric analysis of NaHCO ₃ and Na ₂ CO ₃ by acidimetry	4		
Mar	Theory : CC-1B (Theo) Comparative study of p-block elements N-P-As-Sb-Bi	4	Theory : CC-1D Environmental Chemistry: The Atmosphere,Structure and composition .	4		
Apr	Theory : CC-1B (Theo)		Theory : CC-1D:Environmental			

	Comparative study of p-block elements O-S-Se-Te	4	Chemistry: The Atmosphere, Pollutants	2		
May	Theory : CC-1B: Comparative study of p-block elements F-Cl-Br-I	3	Theory : CC-1D Environmental Chemistry: The Atmosphere, problem of ozone layer depletion	3		
June	Theory : CC-1B: Special classes .	2	Theory : CC-1D: Environmental Chemistry: The Atmosphere pollution control measures	1		

Pankaj P. Roy
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DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF PROF PANKAJ ROY Chemistry (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lectures	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
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Jul			Theory:CC-1C: Chemical Energetics ;thermodynamics;state and path functions; Practical : Measurement of pH of different solutions	4 4	Theory SEC-3: Basics & Application of Computer in Chemistry <i>Mathematics</i> ;Fundamentals:	4
Aug			Theory:CC-1C: Chemical Energetics ;thermodynamics;Concept of heat, work, internal energy and statement of first law; Practical : Measurement of pH of different solutions	4 4	Theory SEC-3: Basics & Application of Computer in Chemistry <i>Mathematics</i> ;Uncertainty in measurement:	4
Sept			Theory:CC-1C: Chemical Energetics ;thermodynamics;Heats of reaction; Practical : Preparation of buffer solutions and find the pH	4 6	Theory:SEC-3: Basics & Application of Computer in Chemistry <i>Mathematics</i> ;Differential calculus:	4
Oct			Theory:CC-1C: Chemical Energetics ;thermodynamics;Laws of thermochemistry; Practical : Study of the solubility of benzoic acid in water	3 2	Theory : SEC-3: Basics & Application of Computer in Chemistry <i>Computer Programming</i> ;Simple computer programs,Statistical analysis.	3

Nov			Theory:CC-1C: Chemical Energetics ;thermodynamics;second law of thermodynamics; Practical : Practice.	5 2	Theory:SEC-3 :Basics & Application of Computer in Chemistry <i>Computer Programming ;BASIC</i> programs for curve fitting, finding roots.	3
Dec			Theory:CC-1C: Special classes: Practical Practice.	2 2	Theory : SEC-3:Special classes:	2
Jan	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
	Theory : CC-1B (Theo) : Kinetic Theory of Gases and Real gases . Practical : Surface tension measurement	3 2	Theory : CC-1D:Solutions ; Ideal solutions and Raoult's law ; Practical : CC-1D: Distribution Law;Study of the equilibrium	3 2	Theory : SEC-4 :Introduction and history of polymeric materials. Theory: DSE-1B: Industrial Chemistry; Polymers: basic concept.	2 2
Feb	Theory : CC-1B (Theo) Surface tension, Viscosity of a liquid . Practical : Study of the variation of surface tension of a detergent solution with concentration	4 2	Theory : CC-1D :Solutions; Distillation of solutions; curves of ideal and non-ideal solutions; Practical : CC-1D: potentiometric titration: r.	4 4	Theory : SEC-4: Functionality and its importance in polymer chemistry. Theory : DSE-1B: structure and types of plastics.	2 2

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Trinit Debabrata Saha
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SURI VIDYASAGAR COLLEGE

Head of the Department,
Department of Chemistry,
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TEACHING PLAN OF DEBABRATA SAHA
Chemistry (General) (2022-23) (July 2022-June 2023)

Month	SEM I(G)	SEM-III(G)	SEM-V
Jul	MODULE-02 (Chemical Periodicity) UNIT-I Classification of elements on the basis of electronic configuration: general characteristics of s-, p-, d- and f-block elements.	NO CLASSES	MODULE-01 UNIT-I (Transition Elements(3d): General group trends with special reference to electronic configuration, variable valency, colour, magnetic and catalytic properties, ability to form complexes and stability of various oxidation states (Latimer diagrams) for Mn, Fe and Cu.
Aug	MODULE-02 (Chemical Periodicity) UNIT-II Positions of hydrogen and noble gases. Atomic and ionic radii, ionization potential, electron affinity, and electronegativity.	NO CLASSES	MODULE-01 UNIT-II (Lanthanoids and actinoids): Electronic configurations, oxidation states, colour, magnetic properties, lanthanide contraction, separation of lanthanides (ion exchange method only).
Sept	MODULE-02 (Chemical Periodicity) UNIT-III Periodic and group-wise variation of above properties in respect of s- and p- block elements.	NO CLASSES	MODULE-04 UNIT-I (Error analysis): accuracy and precision of quantitative analysis, determinate, indeterminate, systematic and random errors; methods of least squares and standard deviations.
Oct	MODULE-04 (Redox reactions) UNIT-I Balancing of equations by oxidation number and ion-electron method oxidimetry and reductimetry.	NO CLASSES	MODULE-05 UNIT-I (Fertilizers): manufacture of ammonia & ammonium salts, urea, superphosphate, biofertilizers. UNIT-II (Cement): Portland cement: composition and setting of cement, white cement.
Nov	Special classes+ doubt clearing+ discussions	NO CLASSES	Problem solving + discussions and evaluation.
Dec	Doubt clearing+ discussions + evaluation.	NO CLASSES	Problem solving + discussions and evaluation.
Jan	SEM-II (G)	SEM-IV(G)	SEM-VI (G)
	MODULE-5B UNIT-III Covalent bonding: VB Approach: Shapes of some inorganic molecules and ions on the basis of VSEPR and hybridization with suitable examples of linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral arrangements.	NO CLASSES	NO CLASSES
Feb	MODULE-5C UNIT-IV Concept of resonance and resonating structures in various inorganic and organic compounds.	NO CLASSES	NO CLASSES
Mar	MODULE-5D UNIT-V MO Approach: Rules for the LCAO method, bonding and antibonding MOs and their characteristics for s-s, s-p and p-p combinations of atomic orbitals, nonbonding combination of orbitals.	NO CLASSES	NO CLASSES
Apr	MODULE-05 UNIT-VI MO treatment of homonuclear diatomic molecules of 1st and 2nd periods. (including idea of s- p mixing) and heteronuclear diatomic molecules such as CO, NO and NO+. Comparison of VB and MO approaches.	NO CLASSES	NO CLASSES
May	Special classes+ doubt clearing+ discussions.	NO CLASSES	NO CLASSES
Jun	Doubt clearing+ discussions + evaluation.	NO CLASSES	NO CLASSES



Head of the Department,
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SURI VIDYASAGAR COLLEGE
Department of Chemistry
Teaching Plan of Dr. Sandip Mondal for the General Course (2022-2023)

Month	SEM-I	SEM-III	SEM-V
Jul	Course Code-CC-1A/GE-1 Atomic Structure: Bohr's theory for hydrogen atom (simple mathematical treatment), atomic spectra of hydrogen and Bohr's model, Sommerfeld's model. quantum numbers and their significance	Course Code-CC-1C/GE-3 <i>Ionic Equilibria:</i> Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water.	Course Code-DSE-1A/GE-5 <i>Coordination Chemistry</i> a. Werner's coordination theory, Valence Bond Theory (VBT): Inner and outer orbital complexes of Cr, Fe, Co, Ni and Cu (coordination numbers 4 and 6).
Aug	Course Code-CC-1A/GE-1 Atomic Structure: Quantum numbers and their significance, Pauli's exclusion principle, Hund's rule, electronic configuration of many-electron atoms, Aufbau principle and its limitations	Course Code-CC-1C/GE-3 Ionization of weak acids and bases, pH scale, common ion effect Salt hydrolysis-calculation of hydrolysis constant, degree of hydrolysis and pH for different salts.	Course Code-DSE-1A/GE-5 Structural and stereoisomerism in complexes with coordination numbers 4 and 6. b. Drawbacks of VBT; IUPAC system of nomenclature.
Sept	Course Code-CC-1A/GE-1 Acids and bases: Brønsted–Lowry concept, conjugate acids and bases, relative strengths of acids and bases, effects of substituent and solvent, differentiating and levelling solvents.	Course Code-CC-1C/GE-3 Buffer solutions; Solubility and solubility product of sparingly soluble salts – applications of solubility product principle.	Course Code-DSE-1A/GE-5 Crystal field effect, octahedral symmetry. Crystal field stabilization energy (CFSE), Crystal field effects for weak and strong fields.
Oct	Course Code-CC-1A/GE-1 Acids and bases: Lewis acid-base concept, classification of Lewis acids and bases, Lux-Flood concept and solvent system concept.	Special class, questions -answers discussion and evaluation.	Course Code-DSE-1A/GE-5 Tetrahedral symmetry. Spectrochemical series. Comparison of CFSE for Oh and Td complexes, Tetragonal distortion of octahedral geometry.
Nov	Course Code-CC-1A/GE-1 Acids and bases: Hard and soft acids and bases (HSAB concept), applications of HSAB process.	Special class, questions -answers discussion and evaluation.	Course Code-DSE-1A/GE-5 Jahn-Teller distortion, Square planar coordination
Dec	Special class, questions -answers discussion and evaluation.	Special class, questions -answers discussion and evaluation.	Special class, questions -answers discussion and evaluation.
	SEM-II	SEM-IV	SEM-VI
Jan	Course Code-CC-1B/GE-2 Ionic Bonding: General characteristics of ionic bonding. Energy considerations in ionic bonding, lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds.	Course Code-CC-1D/GE-4 Volumetric analysis: primary and secondary standard substances; principles of acid-base, oxidation –reduction and complexometric titrations.	NO CLASSES

Feb	Course Code-CC-1B/GE-2 Statement of Born-Landé equation for calculation of lattice energy, Born-Haber cycle and its applications, polarizing power and polarizability	Course Code-CC-1D/GE-4 Indicators: acid-base, redox and metal ion, principles of estimation of mixtures: NaHCO ₃ and Na ₂ CO ₃ (by acidimetry)	NO CLASSES
Mar	Course Code-CC-1B/GE-2 Fajan's rules, ionic character in covalent compounds, bond moment, dipole moment and percentage ionic character.	Course Code-CC-1D/GE-4 Principles of estimation of mixtures: iron, copper, manganese and chromium (by redox titration); zinc, aluminum, calcium and magnesium (by complexometric EDTA titration).	NO CLASSES
Apr	Course Code-CC-1B/GE-2 Comparative study of p-block elements: Group trends in electronic configuration, modification of pure elements, common oxidation states, inert pair effect, and their important compounds in respect of the following groups of elements: i. B-Al-Ga-In-Tl ii. C-Si-Ge-Sn-Pb	Course Code-CC-1D/GE-4 Chromatography: Chromatographic methods of analysis: column chromatography and thin layer chromatography.	NO CLASSES
May	Course Code-CC-1B/GE-2 Comparative study of p-block elements: Group trends in electronic configuration, modification of pure elements, common oxidation states, inert pair effect, and their important compounds in respect of the following groups of elements: iii. N-P-As-Sb-Bi iv. O-S-Se-Te v. F-Cl-Br-I	Course Code-CC-1D/GE-4 Gravimetric analysis: solubility product and common ion effect; requirements of gravimetry; gravimetric estimation of chloride, sulphate, lead, barium, nickel, copper and zinc.	NO CLASSES
June	Special/Remedial class, questions -answer discussions and numerical problem solve	Special/Remedial class, questions -answer discussions and numerical problem solve	NO CLASSES


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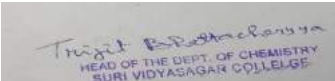
DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF Mrs. Ishani Sinha
Chemistry (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory: CC1A/GE1: Electronic Displacement: Inductive Effect, Resonance, Hyperconjugation, Homolytic and Heterolytic fission of bonds, Structure of organic molecules on the basis of VBT, Nucleophile, Electrophile, Reactive Intermediate: Carbonation, Carbanion, Free Radicals. Practical CC1A/ GE1: Lassaigne Test: Detection of Special Elements	6 2	Theory CC1C/GE3: Aromatic hydrocarbons: Benzene, preparation from phenol, decarboxylation, acetylene, benzene sulphonic acid. Reaction: General Mechanism of aromatic electrophilic substitution. Practical CC1C/GE3: Identification of pure organic compounds: oxalic acid, succinic acid	7 2	Theory DSE 1A: Fuels Practical DSE 1A: 1.Titration of Na ₂ CO ₃ and NaHCO ₃ mixture by HCl using Phenolphthalein indicator. 2.Practice classes.	3 2
Aug	Theory: CC1A/GE1: Stereochemistry CC1A/ GE 1: Solubility Test of solid organic compounds.	6 2	Theory CC1C/GE3: Nitration, Halogenation, Sulphonation, Fridel Craft Alkylation, acetylation and side chain oxidation of aromatic hydrocarbons. Practical CC1C/GE3: Identification of pure organic compounds: Salicylic Acid, Benzoic Acid	5 2	Theory DSE 1A : Fertilizers Practical DSE1A: 1.Titration of HCl and CH ₃ COOH mixture by NaOH using different indicators. 2.Practice classes.	4 2
Sept	Theory: CC1A/GE1: Substitution and Elimination Reaction: SN ₁ ,SN ₂ , E1,E2, Saytzeff and Hoffmann Elimination Alkanes. Preparation: Catalytic hydrogenation, Wurtz Reaction, Kolbe Synthesis, From Grignard Reagent. Practical CC1A/GE1: Detection of functional group: -COOH, phenolic -OH, carbonyl group.	6 2	Theory CC1C/GE3: Aryl Halides, Preparation from Phenol, Sandmeyer Reaction, Nucleophilic Aromatic Substitution, Effect of Nitro group Practical CC1C/GE3: Identification of pure organic compounds: Resorcinol, Urea	4 2 2	Theory DSE 1A: Glass and Ceramics : Part 1 Practical DSE 1A: 1.Estimation of total hardness of water by standard EDTA solution. 2. Practice classes.	3 2
Oct	Theory: CC1A/ GE1: Reaction of alkanes: General Mechanism for free radical substitution and Halogenation; Alkene. Preparation: Dehydration of Alcohol, Dehydrohalogenation. Cis Alkene and Trans Alkene. Practical CC1A/GE1: Detection of functional group: Ar -NO ₂ and Ar -NH ₂ group	6 2	Theory CC1C/GE3 : Grignard Reagent, Preparation, Concept of Umpolung, Reformatsky reaction Practical CC1C/GE3 : Identification of pure organic compounds: Glucose, Acetone	4 2 2	Theory DSE 1A : Glass and Ceramics: Part 2 Practical DSE 1A: Practice classes	3 2
Nov	Theory: CC1A/GE1: Alkene. Cis		Theory CC1C/GE3 : Reimer Tiemann		Theory	

	addition, Trans addition, Markownikoff's Addition and anti Markownikoff's Addition, hydration, ozonolysis, oxymercuration, demercuration, hydroboration, oxidation. CC1A/GE1: Detection of unknown organic sample	4 2	Reaction, Houben Hoesch Reaction, Schotten Baumann Reaction, Fries and Claisen Rearrangements, Problems with examples Practical CC1C/GE3 :Identification of pure organic compounds: Aniline , Nitrobenzene	5 2 2	DSE 1A : Cement Practical DSE 1A : Practice classes	3 2
Dec	Theory: CC1A/GE1: Organic chemistry Alkyne. Preparation and conversion into higher alkynes. Formation of metal acetylides, addition of Br2 and alkaline KMnO4 Practical CC1A/GE1: Organic Chemistry Practice classes	4 2	Theory Revision and discussion of previous lessons Practical CC1C/GE3 :Unknown Samples	3 1 1	Theory DSE1A : Revision and doubt clearing classes Practical DSE 1A : Revision	3 3
	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
Jan	Theory CC1B/GE2: Practical CC1B/GE2:		Theory CC1D/GE4:Environmental Chemistry: Hydrosphere : Environmental Role of Water Practical CC1D/GE4: Estimation of total hardness of water by titration with EDTA.	4 2 2	Theory DSE-1B : Amino acids Practical DSE-1B: 1. Nitration of acetanilide 2.. practice classes	4 2
Feb	Theory CC1B/GE2: Practical CC1b/GE2 :		Theory CC1D/GE 2- Waste Water Management Practical CC1D/GE4: 3. Acid Catalysed Hydrolysis of Ester	3 2	Theory DSE-1B: Carbohydrates: Part 1 Practical DSE-1B : Hydrolysis of Benzamide, Practice classes	4 3

	Practical CC1b/GE2 :		bacterial and anti fungal drugs. Practical CC1D/GE4 : Revision	2	Parathion, DDT Practical DSE-1B : Estimation of Acetic acid in commercial vinegar	2 3
June	Theory CC1b/GE2 : Practical CC1b/ GE2 :		Theory SEC 2 : Synthesis, use and adverse effects of antiviral and CNS depressant drugs, HIV related drugs. Practical CC1D/GE4 : Practical Revision	4 3	Theory DSE 1B: Food additives Practical DSE-1B: Revision classes	3 2



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DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF SOURAV KUMAR DAS
Chemistry (General) (2022-23) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lectures	Sem-III (G)	No. of Lectures	Sem-V (G)	No. of Lectures
Jul	Practical CC-1A: Detection of special elements (N, Cl, and S) in organic compounds. 2. Solubility and Classification (solvents: H ₂ O, dil. HCl, dil. NaOH)	6	Theory CC-1C: Thermodynamic conditions for equilibrium, K _p , K _c and K _x	6		
Aug	Practical: CC-1A: Detection of functional groups: Aromatic-NO ₂ , Aromatic -NH ₂ ,	6	Theory CC-1C: van't Hoff's reaction isotherm, Le Chatelier's principle	6		
Sept	Practical : CC-1A: Detection of functional groups: -COOH, carbonyl, -OH (phenolic) in solid organic compounds. Estimation of Cu (II) ions iodometrically using Na ₂ S ₂ O ₃ .	10	Theory: CC-1C: degree of ionization, ionic product, Salt hydrolysis, pH	8		
Oct	Practical : CC-1A: Estimation of water of crystallization in Mohr's salt by titrating with KMnO ₄ . 4. Estimation of Fe (II) ions by titrating it with K ₂ Cr ₂ O ₇ using internal indicator.	6	Theory : CC-1C: Buffer solutions; Solubility, solubility product, applications	8		
Nov	Practical : CC-1A: Estimation of sodium carbonate and sodium hydrogen carbonate present in	8	Theory : SEC Biochemistry of disease	6		

	a mixture. 2. Estimation of oxalic acid by titrating it with KMnO_4 .					
Dec	Practical: CC-1A: Practice	4	Theory : CC-1C: Doubt clearing, special classes	4	;	
Jan	Sem-II (G)		Sem-IV (G)		Sem-VI (G)	
	PRACTICAL CC-1B Acid Radicals: Cl^- , Br^- , I^- , NO_2^- , NO_3^-	5	Theory : CC-1D: cell constant, specific conductance and molar conductance; Practical : CC-1D To find the total hardness of water by EDTA titration.	6 4	Theory : DSE-1B (Theo) Carboxylic acids (aliphatic and aromatic):	8
Feb	PRACTICAL CC-1B S^{2-} , SO_4^{2-} , PO_4^{3-} , BO_3^{3-} , H_3BO_3 .	5	Theory : Kohlrausch's law, Ostwald's dilution law; Ostwald's dilution law; Practical : CC-1D To find the PH of an unknown solution by comparing color of a series of HCl solutions + 1 drop of methyl orange,	10 4	Theory : DSE-1B Carboxylic acid derivatives (aliphatic):	6
Mar	PRACTICAL CC-1B Basic Radicals:	5	Theory : CC-1D: Faraday's laws of electrolysis, rules of	4	Theory : DSE-1B Carboxylic acid derivatives	

	Na ⁺ , K ⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ ,		oxidation/reduction of ions based on half-cell potentials, applications of electrolysis in metallurgy and industry Practical: CC-1D To find the PH of an unknown solution by comparing color of NaOH solutions + 1 drop of phenolphthalein.	4		8
Apr	PRACTICAL CC-1B Basic Radicals: Mn ²⁺ , Fe ³⁺ , Ni ²⁺ , Cu ²⁺ , NH ₄ ⁺ .	5	Theory : CC-1D Chemical cells, reversible and irreversible cells Practical :CC – 1D Determination of the strength of the H ₂ O ₂ sample. 5. To determine the solubility of a sparingly soluble salt, e.g. KHTa (one bottle	6 6	Theory : DSE-1B: Amines,	8
May	PRACTICAL CC-1B Practice class	4	Theory : CC-1D: Concentration cells Practical : CC-1D To determine the rate constant for the acid catalysed hydrolysis of an ester.	6 4	Theory: DSE-1B Diazonium salts, Nitro compounds	8
June	PRACTICAL CC-1B Practice class	4	Theory : THEORY: CC-1D Special classes PRACTICAL :CC-1D Practice class	4 6	Theory : DSE-1B Special classes Doubt clearing	5

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DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF DR. TRIJIT BHATTACHARYYA
Chemistry (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC1: Bonding and Physical properties: electronic displacement	6	Theory CC7: <i>Chemistry of alkenes</i>	6	Theory CC12: Heterocyclic compounds Part I	6
	Practical CC1: Separation of Binary mixture	4	Practical CC7: <i>Qualitative Analysis of Single Solid Organic Compounds part 1</i>	2	Practical CC12: TLC separation of a mixture containing 2/3 amino acids 2. TLC separation of a mixture of dyes (fluorescein and methylene blue)	2
Aug	Theory: CC1: General Treatment of reaction Mechanism	4	Theory CC7: <i>Chemistry of alkynes</i>	4	Theory CC12: Heterocyclic compounds Part II	6
	Practical CC1: Separation of Binary mixture	2	Practical CC: <i>Qualitative Analysis of Single Solid Organic Compounds Part 2</i>	2	Practical CC12: Paper chromatographic separation of a mixture containing 2/3 amino acids	4
Sept	Theory: CC1: Stereochemistry: symmetry elements, point group and projection formula	4	Theory CC7: <i>Carbonyl and Related Compounds Part I</i>	6	Theory CC12: Cyclic Stereochemistry	8
	Practical CC1: Determination of boiling point of liquid	2	Practical CC7: Melting point of the given compound Preparation of one derivative of the given sample Part I	2	Practical CC12: Column chromatographic separation of mixture of dyes	2
Oct	Theory: CC1: Stereochemistry: Optical activity and absolute configuration	7	Theory CC7: <i>Carbonyl and Related Compounds Part II</i>	6	Theory CC12: Pericyclic reactions Part I	8
	Practical					

	CC1: Separation of Binary mixture	2	Practical CC7: Preparation of one derivative of the given sample Part 2	2	Practical CC12: Spectroscopic Analysis of Organic Compounds: Part 1	2
Nov	Theory: CC1: Reactive Intermediates Practical CC1: Practical Revision	7	Theory CC7: <i>Organic Name reactions</i>	7	Theory CC12: Pericyclic reactions Part II	4
		2	Practical CC7: Detection of unknown organic sample	2	Practical CC12: Spectroscopic Analysis of Organic Compounds: Part 2	4
Dec	Theory: CC1: Organic chemistry Special classes + doubt clearing+ discussions Practical CC1: Organic Chemistry Practice classes	4	Theory CC6: <i>Mechanism of hydrolysis of ester and related compounds</i>	3	Theory CC12: Doubt clearing	4
		2	Practical CC7: Revision	1	Practical CC12: Revision	1
Jan	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
	Theory CC3: <i>Stereochemistry II</i> Concept of prostereoisomerism :	6	Theory CC10 <i>The Logic of Organic Synthesis: Retrosynthetic analysis</i>	5	Theory DSE-3: Twelve principles and goals of green Chemistry,	3
	Practical CC3: Nitration of acetanilide,	2	Practical CC10 1. Estimation of glucose by titration using Fehling's solution	2	Practical DSE-3: Benzoin condensation using Thiamine Hydrochloride as a catalyst	2
Feb	Theory CC3: Chirality arising out of		Theory CC10: <i>The Logic of Organic</i>	5	Theory DSE-3: Green solvents Part I	

	<p>stereoaxis</p> <p>Practical CC3: Acetylation of phenols/aromatic amines</p>	<p>5</p> <p>2</p>	<p><i>Synthesis:</i> Strategy of ring synthesis</p> <p>Practical CC10: 3. Estimation of aromatic amine (aniline) by bromination (Bromate-Bromide) method</p>	<p>2</p>	<p>Practical DSE-3: Photoreduction of benzophenone to benzopinacol in the presence of sunlight.</p>	<p>3</p> <p>4</p>
Mar	<p>Theory CC3: Conformation.</p> <p>Practical CC3: 1. Side chain oxidation of toluene and p-nitrotoluene</p>	<p>5</p> <p>2</p>	<p>Theory CC10: <i>Organic Spectroscopy, IR spectra</i></p> <p>Practical CC10: Estimation of formaldehyde (Formalin)</p>	<p>4</p> <p>2</p>	<p>Theory DSE-3: Green solvents Part2</p> <p>Practical DSE-3: Preparation of propene by two methods can be studied, Other types of reactions, like addition, elimination, substitution and rearrangement should also be studied for the calculation of atom economy.</p>	<p>4</p> <p>2</p>
Apr	<p>Theory CC3: Nucleophilic substitution reactions Part 1</p> <p>Practical CC3: 1. Diazo coupling reactions of aromatic amines</p>	<p>6</p> <p>2</p>	<p>Theory CC10: <i>Organic Spectroscopy, NMR spectra, Part 1</i></p> <p>Practical CC10 7. Estimation of urea (hypobromite method)</p>	<p>6</p> <p>2</p>	<p>Theory Rightfit pigment,</p> <p>Practical DSE-3: Revision</p>	<p>3</p> <p>2</p>

May	<p>Theory CC3: Nucleophilic substitution reactions Part 2</p> <p>Practical CC3: 1. Selective reduction of m-dinitrobenzene to m-nitroaniline</p>	<p>6</p> <p>2</p>	<p>Theory CC10: <i>Organic Spectroscopy: NMR Spectra Part II</i></p> <p>Practical CC10: Revision</p>	<p>6</p> <p>2</p>	<p>Theory DSE-3: Healthier Fats and oil by Green Chemistry, Ultrasound assisted reactions: Simmons-Smith reaction.</p> <p>Practical DSE-3: Revision</p>	<p>4</p> <p>2</p>
June	<p>Theory CC3: Stereoselectivity and Stereospecificity, doubt clearing</p> <p>Practical CC3: Practical revision</p>	<p>2</p> <p>2</p>	<p>Theory CC10: Application Of Spectroscopy and Doubt clearing</p> <p>Practical CC10: Practical Revision</p>	<p>2</p> <p>1</p> <p>3</p>	<p>Theory CC14: Microwave assisted reactions in water, . Future scope of green chemistry</p> <p>Practical DSE-3: Revision</p>	<p>6</p> <p>2</p>

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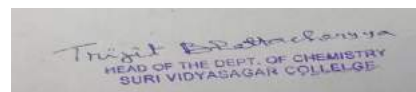
Nov	Theory: CC2: Enzyme catalysis reaction.	8	Theory : CC5:Nernst's distribution law;	7	Theory: DSE1: 3rd law: Absolute entropy, Nernst heat theorem.	4
	Practical : CC2: Study of kinetics of hydrolysis.	4	Practical : CC5:1. Determination of partition coefficient .	4	Practical:DSE1: Computer Programming ;Numerical integration	2
Dec	Theory: CC2: Special classes + doubt clearing+ discussions	4	Theory : CC5: Thermodynamic parameters of mixing; Concept of standard states.	4	Theory : DSE1: Special classes.	4
	Practical CC2: Practice classes	2	Practical CC5: . Determination of Keq for $KI + I_2 = KI_3$,	4	Practical: DSE1: Computer Programming Practice;	2
Jan	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
			Theory : CC8:Application of Thermodynamics – II :Colligative properties: Raoult's law;	4	Theory : CC14;Surface phenomenon; Surface tension and energy:	8
			Practical : CC8: Determination of solubility of sparingly soluble salt.	4	Practical : CC14:Determination of surface tension of a liquid.	4
					Theory : DSE3: Introduction and history of polymeric materials .	4
					Practical : DSE4: Polymer Synthesis 1. Preparation of nylon 66/6 .	4
Feb			Theory : CC8: Application of Thermodynamics – II Colligative properties;Relative lowering of vapour pressure, Elevation of boiling point, Depression of freezing point,Osmotic pressure.	10	Theory : CC14:Surface phenomenon; Adsorption:	8
					Practical : CC14: Determination of CMC from surface tension measurements.	2
					Theory : DSE3:Determination of molecular weight of	4

			Practical : CC8: Determination of solubility of sparingly soluble salt in water.	4	polymers ;Molecular weight distribution and its significance. Practical : DSE3: Determination of hydroxyl number of a polymer.	2
Mar			Theory : CC8: <i>Application of Thermodynamics – II</i> ;Phase rule : Practical: CC8; Study of phenol-water phase diagram.	8 4	Theory : CC14: Surface phenomenon & heterogenous catalysis . Practical : CC14: Determination of CMC from surface tension measurements. Theory: DSE3: Functionality and its importance ; Practical : DSE3: Polymer Characterization ;	6 4 4 4
Apr			Theory : CC8: <i>Application of Thermodynamics – II</i> ;Phase rule ;Phase diagram for water, CO ₂ , Sulphur. Practical : CC8; Effect of ionic strength.	6 4	Theory : CC14: Colloids: Practical : CC14: Determination of pH of unknown buffer, spectrophotometrically. Theory : DSE3; Properties of Polymer ; Practical : DSE3; Preparations of novalac resin/ resold resin.	6 2 4 2
May			Theory : CC8: <i>Application of Thermodynamics – II</i> ;Binary solutions: Liquid-liquid phase diagram. Practical : CC8; Determination of K _{sp} for AgCl.	6 4	Theory CC14: Surface phenomenon : zeta potential; Micelle Practical : CC14: Verification of Beer and Lambert's Law. Theory : DSE3: Kinetics of Polymerization ;	4 2 4

					Practical : DSE3: Polymer Characterization.	4
June			Theory : CC8: <i>Application of Thermodynamics – II</i> Special classes	4	Theory : CC14: Rate of Photochemical processes: HI decomposition, H ₂ -Br ₂ reaction, Practical : CC14: Determination of pH of unknown buffer, spectrophotometrically. Theory : DSE3: Glass transition temperature. Practical : DSE3: Polymer Analysis:	6 4 2 2

TEACHING PLAN OF DEBABRATA SAHA
Chemistry (Honours) 2022-23) (July 2022-June 2023)

Month	SEM-I (H)	SEM-III(H)	SEM-V(H)
Jul	No Inorganic Core Course for SEM-I Honours. No Classes.	CC-6 MODULE-1B UNIT-I & II Covalent bond: Polarizing power and polarizability, ionic potential, Fazan's rules. Lewis structures, formal charge. Valence Bond Theory. The hydrogen molecule (Heitler-London approach), directional character of covalent bonds, hybridizations, equivalent and non-equivalent hybrid orbitals.	CC-11 MODULE-02 UNIT-1 (Transition Elements): General comparison of 3d, 4d and 5d elements in term of electronic configuration, oxidation states, redox properties, coordination chemistry.
Aug		CC-6 MODULE-1B UNIT-III Bent's rule, Dipole moments, VSEPR theory, shapes of molecules and ions containing lone pairs and bond pairs (examples from main groups chemistry) and multiple bonding (σ and π bond approach).	MODULE-03 UNIT-I (Lanthanoids and Actinoids): General Comparison on Electronic configuration, oxidation states, colour, spectral and magnetic properties; lanthanide contraction, separation of lanthanides (ion-exchange method only).
Sept		CC-6 MODULE-2B UNIT-I Metallic Bond: Qualitative idea of valence bond and band theories. Semiconductors and insulators, defects in solids stoichiometric and non-stoichiometric.	DSE-2 MODULE-01 (Qualitative and quantitative aspects of analysis): UNIT-I Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression. UNIT-II Normal law of distribution, indeterminate errors, statistical test of data; F, Q, t test, rejection of data & confidence intervals.
Oct		CC-6 MODULE-2C UNIT-I Weak Chemical Forces: van der Waals forces, ion-dipole forces, dipole-dipole interactions, induced dipole interactions, Instantaneous dipole-induced dipole interactions. Repulsive forces.	DSE-2 MODULE-02 (Optical methods of analysis): UNIT-I Origin of spectra, fundamental laws of spectroscopy and selection rules, validity of Beer-Lambert's law. UNIT-II UV-Visible Spectrophotometry: Basic principles of instrumentation (choice of source, monochromator and detector) for single and double beam instrument;
Nov		CC-6 MODULE-02 UNIT-II Intermolecular forces: Hydrogen bonding (theories of hydrogen bonding, valence bond treatment), receptor-guest interactions, Halogen bonds. Effects of chemical force, melting and boiling points.	DSE-2 MODULE-02 UNIT-V Flame Atomic Absorption and Emission Spectroscopy: Basic principles of instrumentation (choice of source, monochromator, and detector, choice of flame and burner designs. Techniques of atomization and sample introduction; background correction, sources of chemical interferences and their removal. Techniques for the quantitative estimation of trace level of metal ions from environmental samples.
Dec		CC-6 MODULE-03 UNIT-I Nuclear stability and nuclear binding energy. Nuclear forces: meson exchange theory. Nuclear models (elementary idea): Concept of nuclear quantum number, magic numbers.	DSE-2 MODULE-05 (Separation techniques): UNIT-I Solvent extraction: Classification, principle and efficiency of the technique. Mechanism of extraction: extraction by solvation and chelation. UNIT-II Technique of extraction: batch, continuous and counter current extractions. UNIT-III Qualitative and quantitative aspects of solvent extraction: extraction of metal ions from aqueous solution, extraction of organic species from the aqueous and nonaqueous media. UNIT-IV Chromatography: Classification, principle and efficiency of the technique. Mechanism of separation: adsorption, partition & ion exchange.
		SEM-II(H)	SEM-IV (H)
Jan	CC-3 MODULE-02 UNIT-I & II Modern IUPAC Periodic table, Effective nuclear charge, screening effects and penetration, Slater's rules.	CC-9 MODULE-02 UNIT-I Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group. Allotropy and catenation.	MODULE-08 UNIT-I Significant figures, precision and accuracy, errors – systematic and random, mean, variance, standard deviation, different forms of standard deviations, sample and universal standard deviations. UNIT-II Qualitative idea about different frequency distribution, normal distribution, mathematical expression for normal distribution, calculation of area under normal distribution curve by numerical integration, relation between probability and area. UNIT-III Propagation of errors, general and specific cases, functions involving multiplication, division, exponential and logarithmic calculations.
Feb	CC-3	CC-9	MODULE-08

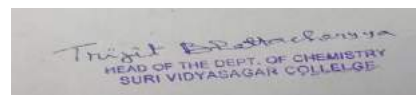


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TEACHING PLAN OF DEBABRATA SAHA
Chemistry (Honours) 2022-23 (July 2022-June 2023)

Month	SEM-I (H)	SEM-III(H)	SEM-V(H)
Jul	No Inorganic Core Course for SEM-I Honours. No Classes.	CC-6 MODULE-1B UNIT-I & II Covalent bond: Polarizing power and polarizability, ionic potential, Fajan's rules. Lewis structures, formal charge. Valence Bond Theory. The hydrogen molecule (Heitler-London approach), directional character of covalent bonds, hybridizations, equivalent and non-equivalent hybrid orbitals.	CC-11 MODULE-02 UNIT-1 (Transition Elements): General comparison of 3d, 4d and 5d elements in term of electronic configuration, oxidation states, redox properties, coordination chemistry.
Aug		CC-6 MODULE-1B UNIT-III Bent's rule, Dipole moments, VSEPR theory, shapes of molecules and ions containing lone pairs and bond pairs (examples from main groups chemistry) and multiple bonding (σ and π bond approach).	MODULE-03 UNIT-I (Lanthanoids and Actinoids): General Comparison on Electronic configuration, oxidation states, colour, spectral and magnetic properties; lanthanide contraction, separation of lanthanides (ion-exchange method only).
Sept		CC-6 MODULE-2B UNIT-I Metallic Bond: Qualitative idea of valence bond and band theories. Semiconductors and insulators, defects in solids stoichiometric and non-stoichiometric.	DSE-2 MODULE-01 (Qualitative and quantitative aspects of analysis): UNIT-I Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression. UNIT-II Normal law of distribution, indeterminate errors, statistical test of data; F, Q, t test, rejection of data & confidence intervals.
Oct		CC-6 MODULE-2C UNIT-I Weak Chemical Forces: van der Waals forces, ion-dipole forces, dipole-dipole interactions, induced dipole interactions, Instantaneous dipole-induced dipole interactions. Repulsive forces.	DSE-2 MODULE-02 (Optical methods of analysis): UNIT-I Origin of spectra, fundamental laws of spectroscopy and selection rules, validity of Beer-Lambert's law. UNIT-II UV-Visible Spectrophotometry: Basic principles of instrumentation (choice of source, monochromator and detector) for single and double beam instrument;
Nov		CC-6 MODULE-02 UNIT-II Intermolecular forces: Hydrogen bonding (theories of hydrogen bonding, valence bond treatment), receptor-guest interactions, Halogen bonds. Effects of chemical force, melting and boiling points.	DSE-2 MODULE-02 UNIT-V Flame Atomic Absorption and Emission Spectroscopy: Basic principles of instrumentation (choice of source, monochromator, and detector, choice of flame and burner designs. Techniques of atomization and sample introduction; background correction, sources of chemical interferences and their removal. Techniques for the quantitative estimation of trace level of metal ions from environmental samples.
Dec		CC-6 MODULE-03 UNIT-I Nuclear stability and nuclear binding energy. Nuclear forces: meson exchange theory. Nuclear models (elementary idea): Concept of nuclear quantum number, magic numbers.	DSE-2 MODULE-05 (Separation techniques): UNIT-I Solvent extraction: Classification, principle and efficiency of the technique. Mechanism of extraction: extraction by solvation and chelation. UNIT-II Technique of extraction: batch, continuous and counter current extractions. UNIT-III Qualitative and quantitative aspects of solvent extraction: extraction of metal ions from aqueous solution, extraction of organic species from the aqueous and nonaqueous media. UNIT-IV Chromatography: Classification, principle and efficiency of the technique. Mechanism of separation: adsorption, partition & ion exchange.
		SEM-II(H)	SEM-IV (H)
Jan	CC-3 MODULE-02 UNIT-I & II Modern IUPAC Periodic table, Effective nuclear charge, screening effects and penetration, Slater's rules.	CC-9 MODULE-02 UNIT-I Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group. Allotropy and catenation.	MODULE-08 UNIT-I Significant figures, precision and accuracy, errors – systematic and random, mean, variance, standard deviation, different forms of standard deviations, sample and universal standard deviations. UNIT-II Qualitative idea about different frequency distribution, normal distribution, mathematical expression for normal distribution, calculation of area under normal distribution curve by numerical integration, relation between probability and area. UNIT-III Propagation of errors, general and specific cases, functions involving multiplication, division, exponential and logarithmic calculations.
Feb	CC-3	CC-9	MODULE-08

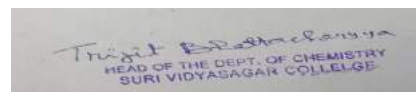


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TEACHING PLAN OF DEBABRATA SAHA
Chemistry (Honours) 2022-23 (July 2022-June 2023)

Month	SEM-I (H)	SEM-III(H)	SEM-V(H)
Jul	No Inorganic Core Course for SEM-I Honours. No Classes.	CC-6 MODULE-1B UNIT-I & II Covalent bond: Polarizing power and polarizability, ionic potential, Fazan's rules. Lewis structures, formal charge. Valence Bond Theory. The hydrogen molecule (Heitler-London approach), directional character of covalent bonds, hybridizations, equivalent and non-equivalent hybrid orbitals.	CC-11 MODULE-02 UNIT-1 (Transition Elements): General comparison of 3d, 4d and 5d elements in term of electronic configuration, oxidation states, redox properties, coordination chemistry.
Aug		CC-6 MODULE-1B UNIT-III Bent's rule, Dipole moments, VSEPR theory, shapes of molecules and ions containing lone pairs and bond pairs (examples from main groups chemistry) and multiple bonding (σ and π bond approach).	MODULE-03 UNIT-I (Lanthanoids and Actinoids): General Comparison on Electronic configuration, oxidation states, colour, spectral and magnetic properties; lanthanide contraction, separation of lanthanides (ion-exchange method only).
Sept		CC-6 MODULE-2B UNIT-I Metallic Bond: Qualitative idea of valence bond and band theories. Semiconductors and insulators, defects in solids stoichiometric and non-stoichiometric.	DSE-2 MODULE-01 (Qualitative and quantitative aspects of analysis): UNIT-I Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression. UNIT-II Normal law of distribution, indeterminate errors, statistical test of data; F, Q, t test, rejection of data & confidence intervals.
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Feb	CC-3	CC-9	MODULE-08

DEPARTMENT OF CHEMISTRY

TEACHING PLAN OF DR. TRIJIT BHATTACHARYYA
Chemistry (Honours) (2022-23) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	<p>Theory: CC1: Bonding and Physical properties: electronic displacement</p> <p>Practical CC1: Separation of Binary mixture</p>	6 4	<p>Theory CC7: <i>Chemistry of alkenes</i></p> <p>Practical CC7: <i>Qualitative Analysis of Single Solid Organic Compounds part 1</i></p>	6 2	<p>Theory CC12: Heterocyclic compounds Part I</p> <p>Practical CC12: TLC separation of a mixture containing 2/3 amino acids 2. TLC separation of a mixture of dyes (fluorescein and methylene blue)</p>	6 2
Aug	<p>Theory: CC1: General Treatment of reaction Mechanism</p> <p>Practical CC1: Separation of Binary mixture</p>	4 2	<p>Theory CC7: <i>Chemistry of alkynes</i></p> <p>Practical CC: <i>Qualitative Analysis of Single Solid Organic Compounds Part 2</i></p>	4 2	<p>Theory CC12: Heterocyclic compounds Part II</p> <p>Practical CC12: Paper chromatographic separation of a mixture containing 2/3 amino acids</p>	6 4
Sept	<p>Theory: CC1: Stereochemistry: symmetry elements, point group and projection formula</p> <p>Practical CC1: Determination of boiling point of liquid</p>	4 2	<p>Theory CC7: <i>Carbonyl and Related Compounds Part I</i></p> <p>Practical CC7: Melting point of the given compound Preparation of one derivative of the given sample Part I</p>	6 2	<p>Theory CC12: Cyclic Stereochemistry</p> <p>Practical CC12: Column chromatographic separation of mixture of dyes</p>	8 2
Oct	<p>Theory: CC1: Stereochemistry: Optical activity and absolute configuration</p> <p>Practical</p>	7	<p>Theory CC7: <i>Carbonyl and Related Compounds Part II</i></p>	6	<p>Theory CC12: Pericyclic reactions Part I</p>	8

	CC1: Separation of Binary mixture	2	Practical CC7: Preparation of one derivative of the given sample Part 2	2	Practical CC12: Spectroscopic Analysis of Organic Compounds: Part 1	2
Nov	Theory: CC1: Reactive Intermediates Practical CC1: Practical Revision	7	Theory CC7: <i>Organic Name reactions</i>	7	Theory CC12: Pericyclic reactions Part II	4
		2	Practical CC7: Detection of unknown organic sample	2	Practical CC12: Spectroscopic Analysis of Organic Compounds: Part 2	4
Dec	Theory: CC1: Organic chemistry Special classes + doubt clearing+ discussions Practical CC1: Organic Chemistry Practice classes	4	Theory CC6: <i>Mechanism of hydrolysis of ester and related compounds</i>	3	Theory CC12: Doubt clearing	4
		2	Practical CC7: Revision	1	Practical CC12: Revision	1
Jan	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
	Theory CC3: <i>Stereochemistry II</i> Concept of prostereoisomerism : Practical CC3: Nitration of acetanilide,	6	Theory CC10 <i>The Logic of Organic Synthesis: Retrosynthetic analysis</i>	5	Theory DSE-3: Twelve principles and goals of green Chemistry,	3
		2	Practical CC101. Estimation of glucose by titration using Fehling's solution	2	Practical DSE-3: Benzoin condensation using Thiamine Hydrochloride as a catalyst	2
Feb	Theory CC3: Chirality arising out of		Theory CC10: <i>The Logic of Organic</i>	5	Theory DSE-3: Green solvents Part I	

	<p>stereoaxis</p> <p>Practical CC3: Acetylation of phenols/aromatic amines</p>	<p>5</p> <p>2</p>	<p><i>Synthesis</i>: Strategy of ring synthesis</p> <p>Practical CC10: 3. Estimation of aromatic amine (aniline) by bromination (Bromate-Bromide) method</p>	<p>2</p>	<p>Practical DSE-3: Photoreduction of benzophenone to benzopinacol in the presence of sunlight.</p>	<p>3</p> <p>4</p>
Mar	<p>Theory CC3: Conformation.</p> <p>Practical CC3: 1. Side chain oxidation of toluene and p-nitrotoluene</p>	<p>5</p> <p>2</p>	<p>Theory CC10: <i>Organic Spectroscopy, IR spectra</i></p> <p>Practical CC10: Estimation of formaldehyde (Formalin)</p>	<p>4</p> <p>2</p>	<p>Theory DSE-3: Green solvents Part2</p> <p>Practical DSE-3: Preparation of propene by two methods can be studied, Other types of reactions, like addition, elimination, substitution and rearrangement should also be studied for the calculation of atom economy.</p>	<p>4</p> <p>2</p>
Apr	<p>Theory CC3: Nucleophilic substitution reactions Part 1</p> <p>Practical CC3: 1. Diazo coupling reactions of aromatic amines</p>	<p>6</p> <p>2</p>	<p>Theory CC10: <i>Organic Spectroscopy, NMR spectra, Part 1</i></p> <p>Practical CC10 7. Estimation of urea (hypobromite method)</p>	<p>6</p> <p>2</p>	<p>Theory Rightfit pigment,</p> <p>Practical DSE-3: Revision</p>	<p>3</p> <p>2</p>

May	<p>Theory CC3: Nucleophilic substitution reactions Part 2</p> <p>Practical CC3: 1. Selective reduction of m-dinitrobenzene to m-nitroaniline</p>	<p>6</p> <p>2</p>	<p>Theory CC10: <i>Organic Spectroscopy: NMR Spectra Part II</i></p> <p>Practical CC10: Revision</p>	<p>6</p> <p>2</p>	<p>Theory DSE-3: Healthier Fats and oil by Green Chemistry, Ultrasound assisted reactions: Simmons-Smith reaction.</p> <p>Practical DSE-3: Revision</p>	<p>4</p> <p>2</p>
June	<p>Theory CC3: Stereoselectivity and Stereospecificity, doubt clearing</p> <p>Practical CC3: Practical revision</p>	<p>2</p> <p>2</p>	<p>Theory CC10: Application Of Spectroscopy and Doubt clearing</p> <p>Practical CC10: Practical Revision</p>	<p>2</p> <p>1</p> <p>3</p>	<p>Theory CC14: Microwave assisted reactions in water, . Future scope of green chemistry</p> <p>Practical DSE-3: Revision</p>	<p>6</p> <p>2</p>



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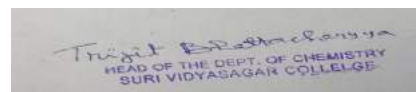
Nov	Theory: CC2: Enzyme catalysis reaction. Practical : CC2: Study of kinetics of hydrolysis.	8 4	Theory : CC5: Nernst's distribution law; Practical : CC5: 1. Determination of partition coefficient .	7 4	Theory: DSE1: 3rd law: Absolute entropy, Nernst heat theorem. Practical:DSE1: Computer Programming ;Numerical integration	4 2
Dec	Theory: CC2: Special classes + doubt clearing+ discussions Practical CC2: Practice classes	4 2	Theory : CC5: Thermodynamic parameters of mixing; Concept of standard states. Practical CC5: . Determination of K_{eq} for $KI + I_2 = KI_3$,	4 4	Theory : DSE1: Special classes. Practical: DSE1: Computer Programming Practice;	4 2
Jan	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
			Theory : CC8: <i>Application of Thermodynamics – II</i> :Colligative properties: Raoult's law; Practical : CC8: Determination of solubility of sparingly soluble salt.	4 4	Theory : CC14: <i>Surface phenomenon;</i> Surface tension and energy: Practical : CC14: Determination of surface tension of a liquid. Theory : DSE3: Introduction and history of polymeric materials . Practical : DSE4: <i>Polymer Synthesis</i> 1. Preparation of nylon 66/6 .	8 4 4 4 4
Feb			Theory : CC8: <i>Application of Thermodynamics – II</i> Colligative properties;Relative lowering of vapour pressure, Elevation of boiling point, Depression of freezing point,Osmotic pressure. Practical :	10	Theory : CC14: Surface phenomenon; Adsorption: Practical : CC14: Determination of CMC from surface tension measurements. Theory : DSE3: Determination of molecular weight of	8 2 4

			<p>CC8: Determination of solubility of sparingly soluble salt in water.</p>	4	<p>polymers ;Molecular weight distribution and its significance. Practical : DSE3: Determination of hydroxyl number of a polymer.</p>	2
Mar			<p>Theory : CC8: <i>Application of Thermodynamics – II</i>;Phase rule :</p> <p>Practical: CC8; Study of phenol-water phase diagram.</p>	8 4	<p>Theory : CC14:Surface phenomenon & heterogenous catalysis .</p> <p>Practical : CC14: Determination of CMC from surface tension measurements.</p> <p>Theory: DSE3:Functionality and its importance ;</p> <p>Practical : DSE3:Polymer Characterization ;</p>	6 4 4 4
Apr			<p>Theory : CC8:<i>Application of Thermodynamics – II</i> ;Phase rule ;Phase diagram for water, CO₂, Sulphur.</p> <p>Practical : CC8;Effect of ionic strength.</p>	6 4	<p>Theory : CC14:Colloids:</p> <p>Practical : CC14: Determination of pH of unknown buffer, spectrophotometrically.</p> <p>Theory : DSE3;Properties of Polymer ;</p> <p>Practical : DSE3; Preparations of novalac resin/ resold resin.</p>	6 2 4 2
May			<p>Theory : CC8: <i>Application of Thermodynamics – II</i>;Binary solutions: Liquid-liquid phase diagram.</p> <p>Practical : CC8; Determination of K_{sp} for AgCl.</p>	6 4	<p>Theory CC14: Surface phenomenon : zeta potential; Micelle</p> <p>Practical : CC14:Verification of Beer and Lambert's Law.</p> <p>Theory : DSE3:Kinetics of Polymerization ;</p>	4 2 4

					Practical : DSE3: Polymer Characterization.	4
June			Theory : CC8: <i>Application of Thermodynamics – II</i> Special classes	4	Theory : CC14: Rate of Photochemical processes: HI decomposition, H ₂ -Br ₂ reaction, Practical : CC14: Determination of pH of unknown buffer, spectrophotometrically. Theory : DSE3: Glass transition temperature. Practical : DSE3: Polymer Analysis:	6 4 2 2

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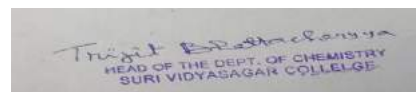


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Sept		CC-6 MODULE-2B UNIT-I Metallic Bond: Qualitative idea of valence bond and band theories. Semiconductors and insulators, defects in solids stoichiometric and non-stoichiometric.	DSE-2 MODULE-01 (Qualitative and quantitative aspects of analysis): UNIT-I Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression. UNIT-II Normal law of distribution, indeterminate errors, statistical test of data; F, Q, t test, rejection of data & confidence intervals.
Oct		CC-6 MODULE-2C UNIT-I Weak Chemical Forces: van der Waals forces, ion-dipole forces, dipole-dipole interactions, induced dipole interactions, Instantaneous dipole-induced dipole interactions. Repulsive forces.	DSE-2 MODULE-02 (Optical methods of analysis): UNIT-I Origin of spectra, fundamental laws of spectroscopy and selection rules, validity of Beer-Lambert's law. UNIT-II UV-Visible Spectrophotometry: Basic principles of instrumentation (choice of source, monochromator and detector) for single and double beam instrument;
Nov		CC-6 MODULE-02 UNIT-II Intermolecular forces: Hydrogen bonding (theories of hydrogen bonding, valence bond treatment), receptor-guest interactions, Halogen bonds. Effects of chemical force, melting and boiling points.	DSE-2 MODULE-02 UNIT-V Flame Atomic Absorption and Emission Spectroscopy: Basic principles of instrumentation (choice of source, monochromator, and detector, choice of flame and burner designs. Techniques of atomization and sample introduction; background correction, sources of chemical interferences and their removal. Techniques for the quantitative estimation of trace level of metal ions from environmental samples.
Dec		CC-6 MODULE-03 UNIT-I Nuclear stability and nuclear binding energy. Nuclear forces: meson exchange theory. Nuclear models (elementary idea): Concept of nuclear quantum number, magic numbers.	DSE-2 MODULE-05 (Separation techniques): UNIT-I Solvent extraction: Classification, principle and efficiency of the technique. Mechanism of extraction: extraction by solvation and chelation. UNIT-II Technique of extraction: batch, continuous and counter current extractions. UNIT-III Qualitative and quantitative aspects of solvent extraction: extraction of metal ions from aqueous solution, extraction of organic species from the aqueous and nonaqueous media. UNIT-IV Chromatography: Classification, principle and efficiency of the technique. Mechanism of separation: adsorption, partition & ion exchange.
	SEM-II(H)	SEM-IV (H)	SEM-VI(H)
Jan	CC-3 MODULE-02 UNIT-I & II Modern IUPAC Periodic table, Effective nuclear charge, screening effects and penetration, Slater's rules.	CC-9 MODULE-02 UNIT-I Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group. Allotropy and catenation.	MODULE-08 UNIT-I Significant figures, precision and accuracy, errors – systematic and random, mean, variance, standard deviation, different forms of standard deviations, sample and universal standard deviations. UNIT-II Qualitative idea about different frequency distribution, normal distribution, mathematical expression for normal distribution, calculation of area under normal distribution curve by numerical integration, relation between probability and area. UNIT-III Propagation of errors, general and specific cases, functions involving multiplication, division, exponential and logarithmic calculations.
Feb	CC-3	CC-9	MODULE-08

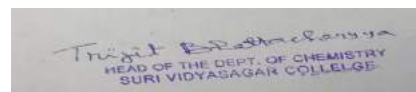


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TEACHING PLAN OF DEBABRATA SAHA
Chemistry (Honours) 2022-23 (July 2022-June 2023)

Month	SEM-I (H)	SEM-III(H)	SEM-V(H)
Jul	No Inorganic Core Course for SEM-I Honours. No Classes.	CC-6 MODULE-1B UNIT-I & II Covalent bond: Polarizing power and polarizability, ionic potential, Fajan's rules. Lewis structures, formal charge. Valence Bond Theory. The hydrogen molecule (Heitler-London approach), directional character of covalent bonds, hybridizations, equivalent and non-equivalent hybrid orbitals.	CC-11 MODULE-02 UNIT-1 (Transition Elements): General comparison of 3d, 4d and 5d elements in term of electronic configuration, oxidation states, redox properties, coordination chemistry.
Aug		CC-6 MODULE-1B UNIT-III Bent's rule, Dipole moments, VSEPR theory, shapes of molecules and ions containing lone pairs and bond pairs (examples from main groups chemistry) and multiple bonding (σ and π bond approach).	MODULE-03 UNIT-I (Lanthanoids and Actinoids): General Comparison on Electronic configuration, oxidation states, colour, spectral and magnetic properties; lanthanide contraction, separation of lanthanides (ion-exchange method only).
Sept		CC-6 MODULE-2B UNIT-I Metallic Bond: Qualitative idea of valence bond and band theories. Semiconductors and insulators, defects in solids stoichiometric and non-stoichiometric.	DSE-2 MODULE-01 (Qualitative and quantitative aspects of analysis): UNIT-I Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression. UNIT-II Normal law of distribution, indeterminate errors, statistical test of data; F, Q, t test, rejection of data & confidence intervals.
Oct		CC-6 MODULE-2C UNIT-I Weak Chemical Forces: van der Waals forces, ion-dipole forces, dipole-dipole interactions, induced dipole interactions, Instantaneous dipole-induced dipole interactions. Repulsive forces.	DSE-2 MODULE-02 (Optical methods of analysis): UNIT-I Origin of spectra, fundamental laws of spectroscopy and selection rules, validity of Beer-Lambert's law. UNIT-II UV-Visible Spectrophotometry: Basic principles of instrumentation (choice of source, monochromator and detector) for single and double beam instrument;
Nov		CC-6 MODULE-02 UNIT-II Intermolecular forces: Hydrogen bonding (theories of hydrogen bonding, valence bond treatment), receptor-guest interactions, Halogen bonds. Effects of chemical force, melting and boiling points.	DSE-2 MODULE-02 UNIT-V Flame Atomic Absorption and Emission Spectroscopy: Basic principles of instrumentation (choice of source, monochromator, and detector, choice of flame and burner designs. Techniques of atomization and sample introduction; background correction, sources of chemical interferences and their removal. Techniques for the quantitative estimation of trace level of metal ions from environmental samples.
Dec		CC-6 MODULE-03 UNIT-I Nuclear stability and nuclear binding energy. Nuclear forces: meson exchange theory. Nuclear models (elementary idea): Concept of nuclear quantum number, magic numbers.	DSE-2 MODULE-05 (Separation techniques): UNIT-I Solvent extraction: Classification, principle and efficiency of the technique. Mechanism of extraction: extraction by solvation and chelation. UNIT-II Technique of extraction: batch, continuous and counter current extractions. UNIT-III Qualitative and quantitative aspects of solvent extraction: extraction of metal ions from aqueous solution, extraction of organic species from the aqueous and nonaqueous media. UNIT-IV Chromatography: Classification, principle and efficiency of the technique. Mechanism of separation: adsorption, partition & ion exchange.
	SEM-II(H)	SEM-IV (H)	SEM-VI(H)
Jan	CC-3 MODULE-02 UNIT-I & II Modern IUPAC Periodic table, Effective nuclear charge, screening effects and penetration, Slater's rules.	CC-9 MODULE-02 UNIT-I Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group. Allotropy and catenation.	MODULE-08 UNIT-I Significant figures, precision and accuracy, errors – systematic and random, mean, variance, standard deviation, different forms of standard deviations, sample and universal standard deviations. UNIT-II Qualitative idea about different frequency distribution, normal distribution, mathematical expression for normal distribution, calculation of area under normal distribution curve by numerical integration, relation between probability and area. UNIT-III Propagation of errors, general and specific cases, functions involving multiplication, division, exponential and logarithmic calculations.
Feb	CC-3	CC-9	MODULE-08



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TEACHING PLAN OF DEBABRATA SAHA
Chemistry (Honours) 2022-23) (July 2022-June 2023)

Month	SEM-I (H)	SEM-III(H)	SEM-V(H)
Jul	No Inorganic Core Course for SEM-I Honours. No Classes.	CC-6 MODULE-1B UNIT-I & II Covalent bond: Polarizing power and polarizability, ionic potential, Fajan's rules. Lewis structures, formal charge. Valence Bond Theory. The hydrogen molecule (Heitler-London approach), directional character of covalent bonds, hybridizations, equivalent and non-equivalent hybrid orbitals.	CC-11 MODULE-02 UNIT-1 (Transition Elements): General comparison of 3d, 4d and 5d elements in term of electronic configuration, oxidation states, redox properties, coordination chemistry.
Aug		CC-6 MODULE-1B UNIT-III Bent's rule, Dipole moments, VSEPR theory, shapes of molecules and ions containing lone pairs and bond pairs (examples from main groups chemistry) and multiple bonding (σ and π bond approach).	MODULE-03 UNIT-1 (Lanthanoids and Actinoids): General Comparison on Electronic configuration, oxidation states, colour, spectral and magnetic properties; lanthanide contraction, separation of lanthanides (ion-exchange method only).
Sept		CC-6 MODULE-2B UNIT-I Metallic Bond: Qualitative idea of valence bond and band theories. Semiconductors and insulators, defects in solids stoichiometric and non-stoichiometric.	DSE-2 MODULE-01 (Qualitative and quantitative aspects of analysis): UNIT-I Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression. UNIT-II Normal law of distribution, indeterminate errors, statistical test of data; F, Q, t test, rejection of data & confidence intervals.
Oct		CC-6 MODULE-2C UNIT-I Weak Chemical Forces: van der Waals forces, ion-dipole forces, dipole-dipole interactions, induced dipole interactions, Instantaneous dipole-induced dipole interactions. Repulsive forces.	DSE-2 MODULE-02 (Optical methods of analysis): UNIT-I Origin of spectra, fundamental laws of spectroscopy and selection rules, validity of Beer-Lambert's law. UNIT-II UV-Visible Spectrophotometry: Basic principles of instrumentation (choice of source, monochromator and detector) for single and double beam instrument;
Nov		CC-6 MODULE-02 UNIT-II Intermolecular forces: Hydrogen bonding (theories of hydrogen bonding, valence bond treatment), receptor-guest interactions, Halogen bonds. Effects of chemical force, melting and boiling points.	DSE-2 MODULE-02 UNIT-V Flame Atomic Absorption and Emission Spectroscopy: Basic principles of instrumentation (choice of source, monochromator, and detector, choice of flame and burner designs. Techniques of atomization and sample introduction; background correction, sources of chemical interferences and their removal. Techniques for the quantitative estimation of trace level of metal ions from environmental samples.
Dec		CC-6 MODULE-03 UNIT-I Nuclear stability and nuclear binding energy. Nuclear forces: meson exchange theory. Nuclear models (elementary idea): Concept of nuclear quantum number, magic numbers.	DSE-2 MODULE-05 (Separation techniques): UNIT-I Solvent extraction: Classification, principle and efficiency of the technique. Mechanism of extraction: extraction by solvation and chelation. UNIT-II Technique of extraction: batch, continuous and counter current extractions. UNIT-III Qualitative and quantitative aspects of solvent extraction: extraction of metal ions from aqueous solution, extraction of organic species from the aqueous and nonaqueous media. UNIT-IV Chromatography: Classification, principle and efficiency of the technique. Mechanism of separation: adsorption, partition & ion exchange.
	SEM-II(H)	SEM-IV (H)	SEM-VI(H)
Jan	CC-3 MODULE-02 UNIT-I & II Modern IUPAC Periodic table, Effective nuclear charge, screening effects and penetration, Slater's rules.	CC-9 MODULE-02 UNIT-I Relative stability of different oxidation states, diagonal relationship and anomalous behaviour of first member of each group. Allotropy and catenation.	MODULE-08 UNIT-I Significant figures, precision and accuracy, errors – systematic and random, mean, variance, standard deviation, different forms of standard deviations, sample and universal standard deviations. UNIT-II Qualitative idea about different frequency distribution, normal distribution, mathematical expression for normal distribution, calculation of area under normal distribution curve by numerical integration, relation between probability and area. UNIT-III Propagation of errors, general and specific cases, functions involving multiplication, division, exponential and logarithmic calculations.
Feb	CC-3	CC-9	MODULE-08

DEPARTMENT OF MASS COMMUNICATION & JOURNALISM

TEACHING PLAN OF PRATICK KABIRAJ (2022-2023)

MONTH	SEM –I (H)	NO. OF LECTURE	SEM-III(H)	NO. OF LECTURE	SEM-V (H)	NO. OF LECTURE
JULY	CC-1 UNDERSTANDING THE STUCTURE AND CONSTRUCTION OF NEWS ORGANIZING A NEW STORY UNIT- 3	6	CC-6 HISTORY OF TELEVISION, INVENTION TO TELECAST. TELEVISION IN INDIA NATIONWIDE NETWORK FORMATION, BCI, UNIT-1	11	CC-11 MEDIA AND INTERNATIONAL COMMUNICATION A BRIEF OVERVIEW UNIT-1	10
AUGUST	CC-1 NEWS WORTHINESS, PRINCIPLE OF NEW SELECTION AND STRUCTURE OF NEWS WRITING UNIT-3	9	CC-6 COMMUNITY TELEVISION, SIT, PSB, UNIT-1	9	CC-11 PROPAGANDA IN THE INTER WAR YEARS, NAZI PROPAGANDA,RADIO AND INTERNATIONAL COMMUNICATION UNIT-1 COLD WAR UNIT-2	12
SEPTEMBER	CC-1 SOURCE OF NEWS ,USE OF ARCHIVES,AND INTERNET UNIT-3	6	CC-6 DIFFERENT TYPES OF TV CHANNELS, DD VS SATELLITE CHANNEL UNIT-2	7	CC-11 VIETNAM WAR,USSR,RADIO FREE EUROPE, RADIO LIBERTY,VOICE OF AMERICA,COMMUNICATION DEBATES UNIT-2	15
OCTOBER	CC-1 DIFFERENT MEDIUM A COMPARISION,PRINCIPLE OF SOFT WRITING UNIT-4	4	BASIC CAMERA SHOTS UNIT-3 CC-6 CAMERA ANGLE, MOVEMENT,VISUAL GRAMMAR,FOCUSING VISUAL PERSPECTIVE UNIT-3	10	CC-11 NWICO,UNESCO,NAM,MCBRIDE COMMISSION,NORTH-SOUTH,POOR- RICH UNIT-2	8

NOVEMBER	CC-1 DIFFERENCE BETWEEN DIFFERENT MEDIUM,CITIZEN JOURNALISM UNIT-4 CC-2 HYPODERMIC NEDDLE THEORY,AGENDA SETTING THEORY. UNIT-4	12	CC-6 TELEVISION NEWSROOM,WRITING TECHNIQUES,WRITING TECHNIQUES PRACTICAL,ENG,EFP,NEWS ROOM PERSONAL DUTIES AND RESPONSIBITIES UNIT-4	17	CC-11 RISE OF AL JAZEERA, THE GULF WARS,CNN,EMBEDDED JOURNALISM,9/11 INCIDENT UNIT-3 CULTURER IMPERALISM,MEDIA HEGEMONY UNIT-4	7
DECEMBER	CC-2 PROPAGANDA,SPIRAL OF SILENCE CULTIVATION ANALYSIS,ALTERNATIVE PARADIGM UNIT-4	8	CC-6 TELEVISION PROGRAMME, CHARACTER OF TELEVISION NEWS, NEWS AS EVENT AND CONSTRUCTION UNIT-5	6	CC-11 CULTURER IMPERALISM,MEDIA HEGEMONY UNIT-4 CC-11 MEDIA AND THE GLOBAL MARKET,MEDIA CONGLOMERATES LOCAL AND GLOBAL PROGRAMMES UNIT-5	8
JANUARY	SEM-II (H)	NO. OF LECTURE	SEM-IV (H)	NO. OF LECTURE	SEM-VI (H)	NO. OF LECTURE
	CC-3 THE NEWS PAPER NEWS ROOM,ORGANIZATIONAL SETUP,EDITORIAL DEPARTMENT,HEADLINES WRITING,TYPOGRAPHY, PRACTICAL-STYLE SHEET UNIT-3	15	CC-8 CONCEPT OF NEW MEDIA,INFORMATION SOCIETY,CMC,NETWORK SOCIETY UNIT-1	10	CC-14 MEDIA MANAGEMENT CONCEPT AND PERSPECTIVE,ORIGIN AND GROWTH,FUNDAMENTALS OF MANAGEMENT,MANAGING SCHOOL OF THOUGHT UNIT-1	10
FEBUARY	CC-3 PHOTO EDITING,ROLE AND RESPONSIBILITY,EDITING PERSONALITY,EDITORIAL PAGE DESIGN,STRUCTURE PURPOSE UNIT-3	6	CC-8 DIGITAL JOURNALISM, REMIEDIATION AND NEW MEDIA TECHNOLOGY,ONLINE COMMUNITIES,UGC, WEB 2.0 UNIT-2	10	CC-14 MEDIA INDUSTRY ISSUE AND CHALLENGES,TAM,TRP,BARC,HITS, MARKET SHIFTS,OWNERSHIP PATTERN,GOVERNMENT MEDIA INTERFACE UNIT-2	15

MARCH	CC-3 MIDDLES ,LETTER TO THE EDITOR,SPECIAL ARTICLE, OPINION PIECES,OP.ED UNIT-3	5	CC-8 NETWORK JOURNALISM,ALTERNATIVE JOURNALISM UNIT-2 DIGITALIZATION OF JOURNALISM UNIT-3	7	CC-14 STRUCTURE OF NEWS MEDIA,ORGANIZATION IN INDIA,ROLE AND RESPONSIBILITY AND HIERARCHY , WORKFLOW AND NEEDS OF MANAGEMENT,SHIFT PATTERN,CIRCULATION AND GUIDE LINE UNIT-3	12
APRIL	CC-3 WEEK-END PULL OUTS , SUPPLEMENTS, BACKGROUNDERS,COLUMNS OR COLUMNISTS UNIT-4	5	CC-8 AUTHORSHIP IN DIGITAL AGE,PIRACY, COPY WRITE,COPY LEFT AND OPEN SOURCE,DIGITAL ARCHIVES,NEW MEDIA ETHICS . UNIT-3	12	CC-14 MEDIA ECONOMICS,STRATEGIC MANAGEMENT,CAPITAL INFLOW,BUDGETING,FINANCIAL MANAGEMENT,PERSONAL MANAGEMENT UNIT-4	12
MAY	CC-4 INDIA TELEGRAPY ACT,PRESS AND BOOK REGISTRATION ACT,ADAMS GAG,VARNACULAR PRESS ACT UNIT-4	5	CC-8 PRACTICAL WEB WRITING,LINEAR AND NON LINEAR WRITING.	11	CC-14 CIRCULATION MANAGEMENT PROCESS AND EVALUATION, MEDIA AUDIENCES AND CREDIBILITY UNIT-5	5
JUNE	CC-4 ADOPTION OF NEW EDITORIAL POLICY,CORPORATIZATION OF INDIAN NEWS PAPER UNIT-4	4	CC-8 CONTEXTUALIZED JOURNALISM,STORY TELLING STRUCTURES UNIT-4 VISUAL AND CONTENT DESIGN, WEBSITE PLANNING,BLOGGING UNIT-5	10	CC-14 MARKET FORCES, FDI UNIT-4 CC-14 PAID NEWS ,LOBBYING ,PRESSURE GROUP INFLUNCE INDIAN AND INTERNATIONAL MEDIA GIANTS UNIT-5	6


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DEPARTMENT OF MASS COMMUNICATION & JOURNALISM

TEACHING PLAN – SANCHITA CHATTERJEE 2022-23

MONTH	SEM –I (H)	NO. OF LECTURE	SEM-III(H)	NO. OF LECTURE	SEM-V (H)	NO. OF LECTURE
JULY	CC-1 INTRODUCTION TO JOURNALISM UNIT- 1 – UNDERSTANDING NEWS INGREDIENTS OF NEWS	9	CC-7 ADVERTISEMENT AND PUBLIC RELATIONS UNIT-1 INTRODUCTION TO ADVERTISEMENT, HISTORY, IMPORTANCE & FUNCTION OF AD. AD. AS A TOOL OF COMMUNICATION	8	CC-12 INTRODUCTION TO FILM STUDIES UNIT -1 BIRTH OF CINEMA, MAGIC LANTERN TO MOVING PICTURES, LUMIÈRE TO GRIFFITH, CHARLIE CHAPLIN, HOLLYWOOD STUDIO SYSTEM, BRIEF HISTORY OF SILENT ERA	10
AUGUST	CC-1 UNIT -1 THE NEWS PROCESS, SUBJECTIVITY & OBJECTIVITY OF NEWS, PROXIMITY OF NEWS	10	CC-7 UNIT -1 ROLE OF AD. IN MARKETING MIX, PR & AD. , AD. THEORIES AIDA , DAGMAR, MASLOW’S HIERARCHY MODEL, THEORIES APPLIED TO AD.	12	CC-12 UNIT -1 DADA SAHEB PHALKE, NEW THEATRE, PRABHAT STUDIO, NEW TALKIES UNIT-2 STAGES OF FILM MAKING, FILM LANGUAGES, IMAGE & SOUND CODE, REAL FILMIC TIME, MONTAGE, MISE-EN-SCENE	14
SEPTEMBER	CC-1 UNIT 1 ETHICS OF JOURNALISM, HARD NEWS VS. SOFT NEWS, ATTRIBUTION, EMBARGO, VERIFICATION	10	CC-7 UNIT -1 TYPES OF AD. & NEW TRENDS, ECONOMIC , CULTURAL, PSYCHOLOGICAL AND SOCIAL ASPECT OF AD. ETHICAL & REGULATORY ASPECTS OF AD –	14	CC-12 UNIT -3 CLASSIFICATION OF CINEMA, FILM GENRE, FICTION & NON-FICTION FILM, FILM & SOCIETY, FILM AS AN ART, FILM AS A MEDIUM OF MASS COMMUNICATION, FILM CENSORSHIP	16

			AAAI, ASCI			
OCTOBER	CC-1 UNIT-1 BALANCE & FAIRNESS, BREVITY, DATELINE, CREDIT LINE, BYLINE	5	CC-7 UNIT -2 AD. THROUGH PRINT, ELECTRONIC & ONLINE MEDIA , TYPES OF MEDIA FOR AD. AD. OBJECTIVES	5	CC-12 UNIT -4 FILM LANGUAGE – SHOT, SCENE, SEQUENCE	6

NOVEMBER	CC-1 UNIT -4 DIFFERENT MEDIUMS -A COMPARISON, LANGUAGE AND PRINCIPLE of SOFT WRITING, BASIC DIFFERENCE BETWEEN THE PRINT, ELECTRONIC & ONLINE JOURNALISM, CITIZEN JOURNALISM	12	CC-7 UNIT -2 SEGMENTATION, POSITIONING, TARGETING MEDIA SELECTION, PLANNING, SCHEDULING , RESEARCH AND BRANDING,AD. DEPARTMENT VS. AGENCY – STRUCTURE AND FUNCTION, AD. BUDGET, CAMPAIGN PLANNING	14	CC-12 UNIT-4 FILM LANGUAGES CAMERA, LIGHTING, SOUND, EDITING INDIAN MASTERS – SATYAJIT RAY, RITWIK GHATAK	8
DECEMBER	CC-2 UNIT -1 MEDIA AND EVERYDAY LIFE	4	CC-7 UNIT -5 SOCIAL MEDIA MARKETING, IMC, DEVELOPING SOCIAL NETWORKS, STRATEGIES, ETHICS, SOCIAL MEDIA TOOLS, ROI	7	CC-12 UNIT -5 FILM PRACTICES- NARRATIVE FORM, CLASSICAL HOLLYWOOD CINEMA, ITALIAN NEO- REALISM, FRENCH NEW WAVE	6
JANUARY	SEM-II (H)	NO. OF LECTURE	SEM-IV (H)	NO. OF LECTURE	SEM-VI (H)	NO. OF LECTURE

	<p>CC-3 REPORTING AND EDITING FOR PRINT UNIT-1 COVERING NEWS, REPORTER -ROLE, FUNCTIONS AND QUALITIES, COVERING OF BEATS</p> <p>PRACTICAL – BEAT REPORTING</p>	<p>9</p> <p>3</p>	<p>SEC -3 DOCUMENTARY PRODUCTION UNIT -1 UNDERSTANDING THE DOCUMENTARY, INTRODUCTION TO REALISM, DEBATE , OBSERVATIONAL AND VERITE DOCUMENTARY</p>	<p>7</p>	<p>DSE -3 DISSERTATION TOPIC SELECTION, ABSTRACT INTRODUCTION LITERATURE REVIEW</p>	<p>10</p>
FEBUARY	<p>CC-3 UNIT-1 COVERING SPEECHES, MEETINGS AND PRESS CONFERENCES, NEWS AGENCY REPORTING</p>	<p>9</p>	<p>SEC -3 UNIT -1 SHOOTING STYLE, INTRODUCTION TO EDITING STYLE, STRUCTURE AND SCRIPTING OF A DOCUMENTARY</p>	<p>7</p>	<p>DSE -3 RESEARCH PROBLEMS, AIM OBJECTIVES</p>	<p>12</p>

MARCH	<p>CC-4 UNIT -1 GROWTH AND DEVELOPMENT OF THE PRESS IN INDIA AND ABROAD, EARLY DAYS OF THE PRESS</p>	<p>8</p>	<p>SEC-3 UNIT -2 DOCUMENTARY PRODUCTION, PRE – PRODUCTION</p>	<p>6</p>	<p>DSE -3 METHODOLOGY DATA COLLECTION</p>	<p>16</p>
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APRIL	ÇÇ – 4 UNIT-1 CONTRIBUTIONS OF EARLY THINKERS IN COLONIAL INDIA- JAMES AUGUSTUS HICKEY, JAMES SILK BUCKINGHAM	7	SEC -3 UNIT -2 RESEARCHING THE DOCUMENTARY: LIBRARY, ARCHIVES, LOCATION, LIFE STORIES, ETHNOGRAPHY, WRITING A CONCEPT, TELLING A STORY	8	DSE -3 FINDINGS AND DATA ANALYSIS	14
MAY	CC-4 UNIT -1 MISSIONARY OF BAPTISTS, WILLIAM CAREY	6	SEC-3 UNIT -2 TREATMENT, WRITING A PROPOSAL AND BUDGETING	6	DSE -3 CONCLUSION BIBLIOGRAPHY REFERENCE	8
JUNE	CC-4 UNIT -5 CABLE TV AND SATELLITE TELEVISION	4	SEC -3 PRACTICAL – DOCUMENTARY SHOOTING DOCUMENTARY EDITING	6	DSE -3 DISSERTATION SUBMISSION	

Banchita Chatterjee

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DEPARTMENT OF MASS COMMUNICATION & JOURNALISM

TEACHING PLAN OF SUMAN RUDRA

2022-2023

MONTH	SEM -I (H)	NO. OF LECTUR E	SEM-III(H)	NO. OF LECTUR E	SEM-V (H)	NO. OF LECTUR E
JULY	CC-1 Role of Media in a Democracy, Responsibility to Society. Press and Democracy. UNIT- 5	5	SEC-1 Broadcast Formats Public service advertisements. Radio Jingles, Radio magazine, Radio Interview, Talk Show ,Discussion, Feature Documentary. UNIT-1	10	DSE 2 concept of corporate & organization, corporate governance, corporate and management. UNIT-1	6
AUGUST	CC-1 Contemporary debates and issues relating to media. Contemporary issues of media. Rights to privacy. UNIT-5	3	sec-1 Broadcast Production Techniques, Working of a Production Control Room. studio Types and functions, acoustics, input and output chain, studio console: recording and mixing. Personnel in Production process Role and Responsibilities . UNIT-2	12	DSC-2 ssues of corporate communication. UNIT-1 DSE 2 identify the stakeholder. Grunigs theory, public and stakeholder, stake holder's relationship, communication tools and strategies for stakeholder relations. UNIT-2	13
SEPTEMBER	cc-1 Fake news & Paid news. cc-2 -Media and Everyday Life.	4	sec-1 studio Types and functions, acoustics, input and output chain, studio console: recording and mixing.	6	DSE 2 Corporate crisis, crisis plan management and crisis communication.	9

Suman Rudra

	Discussions around mediated and non-mediated communication. Unit-1		UNIT-2		UNIT-3	
OCTOBER	CC-2 MEDIA impact of (Educate ,inform and entertain) of print, Radio ,and digital media). UNIT-1	3	sec-1 Personnel in Production process Role and Responsibilities. UNIT-2 Stages of Radio Production Pre-Production – (Idea, research, RADIO script) UNIT-3 Production–Creative use of Sound; Listening, Recording, using archived sounds, (execution, requisite, challenges), Sound Editing, Creative use of Sound Editing. UNIT-3 PRACTICAL- Producing Radio format mentioned in the Unit 1. (Duration-5 minutes).	12	DSE -2 corporate branding and brand promotion. Unit-3 UNIT-4 Corporate social responsibility, issue and approaches, CSR budget. social audit.	12
NOVEMBER	CC-2 Four Models of Communication. UNIT -5	6	CC-7 Public Relations – Concepts and practices Introduction to Public Relations Growth and development of PR Importance, Role and Functions of PR Principles and Tools of Public relations Organization of Public	14	DSE -2 P3 Theory, theory of utility, profit and philanthropic approach – a debate on CSR, CSR budget, social audit. Unit-4	12

Suman Rudra

			relations: In house department vs consultancy. PR in govt. and Private Sectors. Govt's Print, Electronic, Publicity, Film and Related Media Organizations . Unit-3			
DECEMBER	CC-2 Ritual or Expressive model. Publicity Model . Reception Model . Culture and effects model- HUB MODEL UNIT-5	4	CC-7 PR –Publics and campaigns, Research for PR, Managing promotions and functions. PR Campaign-planning, execution, evaluation Role of PR in Crisis management . Ethical issues in PR- Apexbodies inPR- IPRA code-PRSI, PSPFand theircodes. Unit 4	11	DSE -2 CSR and media relations, CSR promotion and role of NGOs. UNIT-4	8
	SEM-II (H)	NO. OF LECTURE	SEM-IV (H)	NO. OF LECTURE	SEM-VI (H)	NO. OF LECTURE
JANUARY	CC-3 Understanding media and news. UNIT-5	2	CC-9 Development: Concept, concerns, paradigms Concept of development Measurement of development Development versus growth, Human development ,Development as freedom. Unit -1 unit-2 Models of development: Nehruvian model . Gandhian mode.	10	CC 13 rural development & rural society, rural vs urban- sociological, demographical and cultural perspectives, rural development and agricultural development. UNIT-1	11

Suman Rudra

FEBRUARY	<p>CC-3</p> <p>Sociology of news: factors affecting news treatment, paid news, agenda setting, pressures in the newsroom, trial by media, gate keepers.</p> <p>UNIT-5</p>	6	<p>CC-9</p> <p>Developing countries versus developed countries UN millennium dev goals Development communication: Concept and approaches Paradigms of development - Dominant paradigm, dependency, alternative paradigm Dev comm. approaches – diffusion of innovation, empathy, magic multiplier Alternative Devcomm. approaches: Sustainable Development ,Participatory Development ,Inclusive Development Gender and development support communication.definition, genesis, area wood triangle.</p> <p>Unit-3</p>	14	<p>CC-13</p> <p>participatory approaches of rural development, rural communication is an integrated communication strategy , model of rural communication, different kits/ tools of rural communication promotion/ rural communication for health, primary education and campaign of other related issues for rural development.</p> <p>UNIT-2</p>	12
MARCH	<p>CC-3</p> <p>Objectivity and politics of news Neutrality and bias in news.</p> <p>UNIT-5</p>	5	<p>CC-9</p> <p>Role of media in development Mass Media as a tool for development Creativity. role and performance of each media-comparative study of pre and post liberalization era. performance record of each medium-print, radio, tv, video, traditional media.</p>	8	<p>CC-13</p> <p>Gandhian view of rural development, social change and rural development, decentralization of power, people's participation, PRIs, communication strategies, communication gap in PRIs.</p>	10

Suman Rudra

			UNIT-4		UNIT-3	
APRIL	<p>CC-4 development in Indian Press.</p> <p>UNIT-5 Radio and Television in India.</p>	3	<p>CC-9 Role of development agencies and NGOs in development communication Critical appraisal of dev comm. programmes and govt. schemes: SITE, Krishi Darshan, Kheda,</p> <p>Unit-5</p>	9	<p>CC-13 decentralize planning to rural development and role of NGO s,non-agrarian activities.</p>	7
MAY	<p>CC-4 Emergence of Radio in Pre-independence period. All India Radio .</p> <p>UNIT-5</p>	3	<p>cc-9 Jhabua, MNREGA; Cyber media and dev – e- governance, e chaupal, national knowledge network, ICT for dev Narrow casting.</p> <p>Unit-5</p>	10	<p>cc-13 integrated rural development. UNIT-4 promotion of rural industries and role of rural communication , rural cooperative and self group UNIT-4</p>	10
JUNE	<p>CC-4 Doordarshan,,Magazine journalism, Press in emergency period, Cable TV and Satellite Television.</p> <p>UNIT-5</p>	4	<p>CC-9 Development support communication in India in the areas of: agriculture, health & family welfare, population, women empowerment, poverty, unemployment, energy and environment, literacy, consumer awareness, Right to Information(RTI)</p> <p>UNIT-5</p>	9	<p>CC-13 rural media, low cost participatory media, community media in rural development, role of traditional media in rural development, development support communication, participatory. UNIT-5</p>	10

DEPARTMENT OF ARABIC

**TEACHING PLAN OF SYED BASIR AL HILAL
ARABIC (Honours) (2022-23) (July 2022 – June 2023)**

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	CC-1: History of Arabic literature (from pre Islamic to Islamic period) gram. & trans. Unit-A.2 Al-Quran, Al-Hadith	3	CC-5: POETRY (Pre-Islamic, Islamic & Umayyad Period) Unit 1: Muallaqa Imrul Qayes	3	CC-11: PROSE (Modern Period Unit -1) Awalul Ahd Bi Yasrab	2
	CC-2: Arabic Prose (Islamic & medieval) Unit- 2 Sura Bani Israil	3	CC-6: History of Arabic literature (Spain) gram. & trans. Unit: A(a) Andalusia Period	3	CC-12: POETRY (Modern Period Unit -1) Sadal Harb	2
	GE-1: History of Arabic literature (from pre Islamic to Islamic period) Unit- B: Islamic Period & Umayyad Period. 1) Al-Quran	2	GE-3: Prose (Islamic, Medieval & Modern Period) Unit- 3: Salman Al-farsi	2	DSE-1(History Of Islam,Rhetoric, Prosody & Philology) Tashbih & Its Division, Majaz Mursal & Aqli	2
Aug	CC-1: History of Arabic literature (from pre Islamic to Islamic period) Gram. & trans. Unit-A.2 Al-Khansa, Hasaan Bin Thabit	3	CC-5: POETRY (Pre-Islamic, Islamic & Umayyad Period) Unit 1: Muallaqa Imrul Qayes	3	CC-11:PROSE (Modern Period Unit -1) Unit 1: Awalul Ahd Bi Yasrab	2
	CC-2: Arabic Prose (Islamic & medieval) Unit- 2 Sura Bani Israil	3	CC-6: History of Arabic literature (Spain) gram. & trans. Unit: A(a) Andalusia Period	3	CC-12: POETRY (Modern Period Unit -1) Al-hamziyatun Nababiyah	2
	GE-1: History of Arabic literature (from pre Islamic to Islamic period) Unit- B: Islamic Period & Umayyad Period. 2) Al-Hadith	2	GE-3: Prose(Islamic, Medieval & Modern Period) Unit- 3: Salman Al-farsi	2	DSE-1: (History Of Islam,Rhetoric, Prosody & Philology) Ista'arah & Its Division, Kinayah	2
Sept	CC-1: History of Arabic literature (from pre Islamic to Islamic period) Gram. & trans. Unit-A.2 Umar Bin Abi Rabi'ah, Al-Akhtal	3	CC-5: POETRY (Pre-Islamic, Islamic & Umayyad Period) Unit 1: Muallaqa Labid Bin Rabeya	3	CC-11: PROSE (Modern Period Unit -1) Awalul Ahd Bi Yasrab	2
			CC-6: History of Arabic literature (Spain) gram. & trans.	3	CC-12: POETRY (Modern Period Unit -1) Al-hamziyatun	2

	<p>CC-2: Arabic Prose (Islamic & medieval) Unit-5 Salman Al-farsi</p> <p>GE-1: History of Arabic literature (from pre Islamic to Islamic period) Unit- B: Islamic Period & Umayyad Period. 3) Al-Khansa</p>	<p>3</p> <p>2</p>	<p>Unit: A(b) Ibne Abde Rabbihi, Ibne Khaldun</p> <p>GE-3: Prose(Islamic, Medieval & Modern Period) Unit- 4: Ashab-e-fil</p>	<p>2</p>	<p>Nababiyah</p> <p>DSE-1: (History Of Islam,Rhetoric, Prosody & Philology) Jinas & Tawriyah</p> <p>DSE-1A (Rhetoric, Prosody) Jinas & Tawriyah</p>	<p>2</p> <p>2</p>
Oct	<p>CC-1: History of Arabic literature (from pre Islamic to Islamic period) Gram. & trans. Unit-A.2 Al-Farazdaq</p> <p>CC-2: Arabic Prose (Islamic & medieval) Unit- 5 Salman Al-farsi</p> <p>GE-1: History of Arabic literature (from pre Islamic to Islamic period) Unit- B: (Islamic Period & Umayyad Period) 4) Hassan Bin Thabit</p>	<p>2</p> <p>2</p> <p>2</p>	<p>CC-5: POETRY (Pre-Islamic, Islamic & Umayya Period) Unit 1: Muallaqa Labid Bin Rabeya</p> <p>CC-6: (History of Arabic literature (Spain) gram. & trans) Unit: A(b) Ibne Abde Rabbihi, Ibne Khaldun</p> <p>GE-3: Prose(Islamic, Medieval & Modern Period) Unit- 4: Ashab-e-fil</p>	<p>3</p> <p>3</p> <p>2</p>	<p>CC-11: PROSE (Modern Period Unit -1) Hinan-E-Ab</p> <p>DSE-1: (History Of Islam,Rhetoric, Prosody & Philology) It nab, Eijaz</p> <p>DSE-1A (Rhetoric, Prosody) Ilme Arouz ,Sabab, Watad, Fasilah</p>	<p>3</p> <p>3</p> <p>2</p>
Nov	<p>CC-1: History of Arabic literature (From Pre Islamic To Islamic Period) Gram. & trans. Unit-A.2 Jarir</p> <p>CC-2: Arabic Prose (Islamic & medieval) Unit- 5 Salman Al-farsi</p> <p>GE-1: History of Arabic literature (From Pre Islamic To Islamic Period) Unit- B: Islamic Period & Umayyad Period. 5) Al- Akhtal</p>	<p>2</p> <p>2</p> <p>2</p>	<p>CC-5: POETRY (Pre-Islamic, Islamic & Umayya Period) Unit 1: Muallaqa Imrul Qayes Special class</p> <p>CC-6: History of Arabic literature (Spain) gram. & trans. Unit: A(b) Ibnul Khatib</p> <p>GE-3: Prose(Islamic, Medieval & Modern Period) Unit- 3: Salman Al-farsi Special class</p>	<p>3</p> <p>2</p> <p>2</p>	<p>CC-11: PROSE (Modern Period Unit -1) Hinan-E-Ab</p> <p>DSE-1: (History Of Islam,Rhetoric, Prosody & Philology) Ilme Arouz , Maqta'a, Arkaan,Zihaf</p> <p>DSE-1A (Rhetoric, Prosody) Arkan, Bahre Kamil</p>	<p>2</p> <p>4</p> <p>2</p>

Dec	CC-1: History of Arabic literature (From Pre Islamic To Islamic Period) Gram. & trans. Unit-A.2 Special Class	2	CC-5: POETRY (Pre-Islamic, Islamic & Umayya Period) Unit 1: Muallaqa Labid Bin Rabeya Special class	3	CC-11: PROSE (Modern Period Unit -1) Awalul Ahd Bi Yasrab Special class	1
	CC-2: Arabic Prose (Islamic & medieval) Unit- 5 Salman Al-farsi	2	CC-6: History of Arabic literature (Spain) gram. & trans. Unit: A(c) Ibne Zaidun, Ibne Hani	3	CC-12: POETRY (Modern Period Unit -1) Special class	1
	GE-1: History of Arabic literature (From Pre Islamic To Islamic Period) Unit- B: Islamic Period & Umayyad Period. 6) Al-Farazdaq, Jarir	2	GE-3: Prose(Islamic, Medieval & Modern Period) Unit- 4: Ashab-c-fil Special class	2	DSE-1: (History Of Islam,Rhetoric, Prosody & Philology) Illat, Bahr, Taqtie	2
	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans. Unit- A.c Indian Arabic Scholars Gulam Ali Azad	2	CC-8: POETRY (Abbasid & Fatimid) Unit 1: Ibne Rumi	2	CC-13: PROSE (Modern Period Unit -2) Ad-Dafin As-Sagir	2
	CC-4: Arabic Prose (Islamic & medieval) Unit- 1 Khutbatu Umar fil hikam	3	CC-9: History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans. Unit: 1(a) Rabita Qalamiya, Jibran Khalil Jibran	3	CC-14: POETRY (Modern Period Unit -2) Sakran	2
	GE-2: History of Arabic literature (Abbasid period) gram. & trans. Unit- A(2): Abbasid Period(poetry) 1) Bashshar Bin Burd	2	GE-4: Poetry (Islamic, Medieval & Modern Period) Unit-2: Walahu Fil Waz	2	DSE-3:(Outline History Of Modern Arab World) Unit-1: Kuwait	2
Feb	CC-3: History of Arabic Literature (Abbasid period & Indian Arabic lit.) Gram. & trans. Unit-1: Islamic Period & Umayyad Period Shah Waliullah	2	CC-8: POETRY (Abbasid & Fatimid) Unit 1: Ibnu Farid	2	CC-13: PROSE (Modern Period Unit -2) Ad-Dafin As-Sagir	2
			CC-9: History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans. Unit: 1(a) Mikhail Nuaimah & Iliya Abu	3	CC-14: POETRY (Modern Period Unit -2) Usfurul Jannat	2
					DSE-3:(Outline History Of Modern Arab	

	<p>CC-4: Arabic Prose(Islamic & medieval) Unit- 2 Muamiratu Quraish</p> <p>GE-2: History of Arabic literature(Abbasid period) gram. & trans Unit- A(2): Abbasid Period(poetry) 2) Abu Nuwas</p>	3	<p>Madi</p> <p>GE-4: Poetry (Islamic, Medieval & Modern Period) Unit-2: Walahu Fil Waz</p>	2	<p>World) Unit 2: Jordan</p> <p>SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile) Rabita Qalamiya, Jibran Khalil Jibran</p>	2
Mar	<p>CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans.</p> <p>Unit- A.c Indian Arabic Scholars Abdul Hai Husaini</p> <p>CC-4: Arabic Prose(Islamic & medieval) Unit- 1 Special class</p> <p>GE-2: History of Arabic literature(Abbasid period) gram. & trans Unit- A(2): Abbasid Period(poetry) 1) Abul Atahiya</p>	3	<p>CC-8: POETRY (Abbasid & Fatimid) Unit 1: Ibnu Farid</p> <p>CC-9: History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans. Unit: 1(b) Al- asabatul Undulisiya , Al- khouri</p> <p>GE-4: Poetry (Islamic, Medieval & Modern Period) Unit-2: Ala Fi Sabilil Majd</p>	2	<p>CC-13: PROSE (Modern Period Unit -2) Bainal Ams Wal Yaom</p> <p>CC-14: POETRY (Modern Period Unit -2) Unit 1: Sakran Special class</p> <p>DSE-3:(Outline History Of Modern Arab World) Unit 3: UAE</p> <p>SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile) Mikhail Nuaimah & Iliya Abu Madi</p>	2
Apr	<p>CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans.</p> <p>Unit- A.c Indian Arabic Scholars Abul Hasan An- nadvi</p> <p>CC-4: Arabic Prose(Islamic & medieval) Unit- 2 Special class</p> <p>GE-2: History of</p>	3	<p>CC-8: POETRY (Abbasid & Fatimid) (North & South America/Adabul Mahjar) Gram. And Trans. Unit 1: Ibnu Farid</p> <p>CC-9: History of Arabic literature Unit: 1(b) Al- asabatul Undulisiya , Fauzi Maluf</p> <p>GE-4: Poetry (Islamic, Medieval & Modern Period) Unit-2: Ala Fi Sabilil Majd</p>	2	<p>CC-13: PROSE (Modern Period Unit -2) Bainal Ams Wal Yaom</p> <p>CC-14: POETRY (Modern Period Unit -2) Usfurul Jannat Special class</p> <p>DSE-3: :(Outline History Of Modern Arab World) Unit 4: Bahrain</p> <p>SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile) Al- asabatul</p>	2

	Arabic literature(Abbasid period) gram. & trans Unit- A(2): Abbasid Period(poetry) 4) Abu Tammam	2			Undulisiya ,Mishal Ma'louf	
May	CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans. Unit- A.c Indian Arabic Scholars Nawab Siddiq Hasan	3	CC-8: POETRY (Abbasid & Fatimid) Unit 1: Ibnul Farid Special class CC-9: History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans. Unit: 1(b) Special class	2	CC-13: PROSE (Modern Period Unit -2) Madaniyatul Islamiyah	3
	GE-2: History of Arabic literature(Abbasid period) gram. & trans Unit- A(2): Abbasid Period(poetry) 5) Al-Mutanabbi	3	GE-4: Poetry (Islamic, Medieval & Modern Period) Special class	3	DSE-3: :(Outline History Of Modern Arab World) Unit 5: Lebanon :(Specialy Literay Feature Of Modern Arabic Literature in Exile) Al-khouri,Ilyas Farhat	2
						1
June	CC-3: History of Arabic literature (Abbasid period & Indian Arabic lit.) Gram. & trans. Unit- A.c Indian Arabic Scholars Al-Masumi	3	CC-8: POETRY (Abbasid & Fatimid) Unit 1: Ibnur Rumi Special class CC-9: History of Arabic literature (North & South America/Adabul Mahjar) Gram. And Trans. Unit: 1(a) Special class	2	CC-13: PROSE (Modern Period Unit -2) Madaniyatul Islamiyah	2
	GE-2: History of Arabic literature(Abbasid period) gram. & trans Unit- A(2): Abbasid Period(poetry) 6) Al-Marri	2	GE-4: Poetry (Islamic, Medieval & Modern Period) Special class	3	DSE-3:(Outline History Of Modern Arab World) Special class SEC-3:(Specialy Literay Feature Of Modern Arabic Literature in Exile) Special class	3
						2

Syed Basim O. H. Khan
Department of Arabic,
Suri Vidyasagar College

SURI VIDYASAGAR COLLEGE

DEPARTMENT OF ARABIC

Teaching plan of Dr. MOHD MOATASIM

B.A. Arabic (Hons. & Genl.) session July 2022– June 2023

Sem-I (Hons. & Genl)	No. of Lecture	Sem-III (Hons. & Genl)	No. of Lecture	Sem-V (Hons. & Genl)	No. of Lecture
CC1: Hist. of Arabic Lit.(from Pre-Islamic to Umayyad period), Gram. & Trans	Total Classes=30	CC5: Poetry (Pre-Islamic, Islamic & Umayyad period) 5: Selected Verses from Poetry of Al- Farazdaq. 6: Selected Verses from Poetry of Jarir	Total Classes=20 10 10	CC-11: Prose (Modern Period unit 1) (5): Manhaj al-Anbiyā' fi al-Islāh wa al-taqhyir (The method of Prophets to reform and change): Syed Abul Hasan Ali Nadwi	Total Classes=10 10
Part B: Grammar & Translation (a) Words; Noun, Verb & Particles (b) Number: Singular, Dual & Plural (c) Definite & indefinite Noun (d) Gender; Masculine & Feminine (e) Demonstrative Pronoun (f) Relative Pronoun (g) Personal Pronouns and Its Kinds (h) Prepositions (i) Interrogative words (j) Kinds of Verb; Past, Present, Imperative and Negative imperative Verb (k) Simple Verbs (Mujarrad Verbs) (l) Possessive compound (Genitive Construction) (m) Noun and adjective (n) Subject and Predicate (Nominative Sentences)	2 4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	CC-6: History of Arabic literature (Spain) gram. & trans. Unit: B Grammar and Translation of the following topic: 1) Complex Verbs (Mazid Verbs) and its Stem-Forms 2) Features of Stem-Forms: If'āl, Taf'īl, Ifti'āl, Istif'āl, Mufā'ala 3) Semi-Defective Verbs; (Af'āl al-Muqāraba wa al-Rij'ā' wa al-Shuru' (Approximative, Hope and Inchoative verbs) 4) Defective Verbs 5) Plural and its kinds 6) Five objects	Total Classes=30 4 5 6 3 5 7	CC-12: Poetry (Modern Period unit 1) 4) Jamil wa Buthain: Zahāwī DSE2: Elementary knowledge of Al-Quran & Al-Hadeeth Literature. Al-Qur'ān (Holy Qur'ān) 1) Detailed History of revelation and compilation of Holy Qur'ān (Tārikh Nuzul al-Qur'ān wa Jao'uhu wa al-Ihtifaz bihi Mufassilan) 2) Tathir al-Qur'ān al-Karim 'ala al-Lugha al-Arabiyya wa Hayāt al-Arab al-Ijtimā'iyyah (The impact of Holy Qur'ān on Arabic Language and social life of Arabs) 3) Khulāsa al-Suwar al-Taliya wa al-Fikrah al-Ra'isiyya fiha (Conclusion and Central Ideas of the following Chapters): Al-Mā'ida, Al-Kahf, Al-Hujrāt 4) Ma'lumāt al-Qur'ān (Knowledge of the Holy Qur'ān): a) Shān al-Nuzul, Surah Makkiyya Madniyya, al-Mufassirun min al-Sahāba (RA) b) Al-Istalahāt: al-Nasikh, al-Mansukh, al-Muhkam, al-Mutashābih, al-Tahrif	Total Classes=10 10 Total Classes=60 (30) 5 5 5 7 8
CC-2: Arabic Prose (Islamic & Medieval) (Part-A) d) Khutba al-Nabi (PBUH) fi Hajja al-Wadā' (The Last Sermon of the Prophet PBUH)	Total Classes=10 10	SEC1: Translation & Composition Unit 1: Translation 1) Kinds of Sentences: Nominal, Verbal, Conditional, Structural, Subject and Predicate, Places where Subject comes first, Places where Predicate comes first 2) Exercises of Letter writing on different topics and Application writing in Arabic	Total Classes=40 30 10	Al-Hadīth (Hadīth) 1) The Hadīth and its History of compilation and preservation in the following periods: Prophet's period, Umayyad period & Abbasid period 2) Life and work of following Muhaddithīn in the field of Hadīth: Imām Bukhārī, Imām Muslim, Imām Abu Da'ud, Imām Nasa'i, Imām Ibn-i-Māja, Imām Tirmidhi (RA) 3) History of publishing and teaching of Hadīth in India 4) Life and contribution of Abdul Haq Muhaddith Dehlawi and Shah Waliyullah Dehlawi in serving the field of Hadīth	Total Classes=30 6 14 5 5
CC-1A: A. Hist. of Arabic Literature (from Pre- Islamic to Umayyad Period 500- 750 A. D.), Gram. & Translation C: Grammar & Translation (a) Words; Noun, Verb & Particles (b) Definite & indefinite Article (c) Gender; Masculine & Feminine (d) Number: Singular, Dual & Plural (e) Kinds of Verb; Past, Present, Imperative and Negative imperative Verb (f) Simple Verbs (Mujarrad Verbs) (g) Pronouns and Its Kinds (h) Possessive compound (Genitive Construction) (i) Subject and Predicate (Nominative Sentences)	Total Classes=30 3 2 1 4 9 2 4 2 3	CC-1C: Prose (Islamic, Medieval & Modern Period) 5. Ahmad Amin: Al-din al-Sina'i (Artificial Religion) SEC1: Grammar, translation & letter writing a) Nominal Sentences, Verbal Sentences, Conditional Sentences, the particles that resembles verbs, Defective Verbs, Hāl and Dhū al-Hāl (Adjective of Condition), Adverb of Clarification b) Letter Writing (Official Educational, Personal and etc.	Total Classes=12 12 Total Classes=40 25 15	SEC3: Specific literary feature of modern Arabic Literature DSE-1A: Rhetoric & Prosody: b) Prosody and its kinds	Total Classes=30 30

Sem-II (Hons. & Genl)		Sem-IV (Hons. & Genl)		Sem-VI (Hons. & Genl)	No. of Lecture
CC-3: History of Arabic Literature (Abbasid Period & Indian Arabic Lit.), Gram. & Translation	Total Classes=30	CC-8: Poetry (Abbasid & Fatimid)	Total Classes=15	CC-13: Prose (Modern Period Unit-II)	Total Classes=10
B. Grammar & Translation		a) Abul Alā Ma'rri: Ala Fi Sabīl al-Majd Mā Ana Fā'il	15	2) An Accident: Naguib Mahfouz	10
(a) Intransitive and Transitive Verbs	5	CC-9: History of Arabic Literature (North & South America/Adabul Mahjar) & Grammar + Translation	Total Classes=30	CC-14: Poetry (Modern Period Unit-II)	Total Classes=15
(b) The Particles which introduce the verb in jussive case	2	2: Grammar based Translation on the prescribed items.		3) Lap of Mother: Rashid Salim al-Khoury	15
(c) The Particles which introduce the verb in accusative case	2	c) Ḥāl and Dhū al-Ḥāl (Adjective of Condition)	4	DSE-4: Translation, Essay Writing, Terminology & Vocabulary	Total Classes=60
(d) Infinitive (Gerund) and derivative nouns: Active Participle, Passive Participle, Locative noun, utilitarian noun, comparative and superlative, hyperbolic participle and resembling participle,	13	d) Adverb of Clarification	4	A) Grammar & Translation:	
(e) Case: Nominative, Accusative & Genitive	1	e) Declinable and indeclinable	4	1) Number and countable Noun	18
(f) The particles that resembles verbs	3	f) Diptotes	8	2) Exclusion mustathnā mustathnā minhu	9
(g) Defective verbs	4	g) Conditional particle;	6	3) The followers	8
CC-4: Arabic Prose (Islamic & Medieval) (Part-B)	Total Classes=20	h) Categorial negative lā	4	B) Essay Writing in Arabic (Narrative & Descriptive Types)	15
d) Baina Qādin Waqur wa Dhubābin Jasur (Between a dignified judge and daring fly)	10	CC-10: Development of Modern Arabic Novel, short-story, Drama & Formation of Literary Groups	Total Classes=12	C) Terminology & Vocabulary	10
e) Ash'ab wa al-Bakhīl (Ash'ab and the miser)	10	C: Essay Writing in Educational, Social, Political & Scientific aspects	12		
CC-1B: History of Arabic Literature (Abbasid Period, 750-1258 A.D.), Grammar & Translation	Total Classes=30	SEC2: Translation & Interpretation (from English into Arabic & vice versa from Newspapers) & Communicative Skill:	Total Classes=40		
B. Grammar & Translation		1) Translation from Arabic and English Newspaper: Scientific, Political, Social and economic	25		
(a) The Particles which introduce the verb in jussive case	3	2) Conversation and speech in Arabic language on any scientific topic	15		
(b) The Particles which introduce the verb in accusative case	3	CC1D: Poetry: (Islamic, medieval, & Modern Period)	Total Classes=20		
(c) Demonstrative Pronoun	4	1) Hafiz Ibrahim: Condition of Arabic Language	10		
(d) Relative Pronoun	4	6: Abul Alā Ma'rri: Ala Fi Sabīl al-Majd	10		
(e) Active Participle, Passive Participle, Noun and adjective	6	SEC-2 (G): Grammar, translation & latter writing	Total Classes=40		
(f) Case: Nominative, Accusative & Genitive	2	a)			
(g) Prepositions	2	1) Exclusion	7		
(h) Interrogative particles	3	2) Categorial negative lā	5		
(i) Conditional particles	3	3) Features of Stem-Forms: If'āl, Taf'il, Istif'āl, Mufā'ala & Ifti'āl	13		
		b) Essay Writing: Visit of the popular city, popular Library, and zoo and article on personality whom you like very much	15		



TEACHING PLAN- 2022-23(ODD SEM)

TEACHING PLAN- 2022-23 (ODD SEMISTERS)

COURSE	COURSE TYPE Hons. / Gen	PAPER NO.	TITLE OF THE PAPER	ALLOTTED TO
SEM-1	HONOURS	CC-1	History of India - I (From Earliest Times to 600 AD)	Dr. Amiya Kumar Ghosh
		CC-2	Social Formations & the Cultural Pattern of the Ancient World	Dr. Partha Sankha Mazumdar
	GENERAL	CC-1A/ GE -1	History of India - I (From Earliest Times to 300 AD)	Prof. Nivedita Chakraborty
SEM-3	HONOURS	CC-5	History of India - III (1206 -- 1525 AD)	Dr. Partha Sanka Mazumdar
		CC-6	Rise of Modern West – I (15th & 16th Centuries)	Dr. Amiya Kumar Ghosh
		CC-7	History of India - IV (1526 AD -- 1757 AD)	Dr. Asim Chaudhuri
	GENERAL	CC-1C / GE -3	History of India – III (From 1206 AD --1707 AD)	Dr. Asim Chaudhuri
		SEC-1	Archives & Museums in India	Prof. Nivedita Chakraborty
SEM-5	HONOURS	CC-11	History of Modern Europe - I (1789 AD - 1870 AD)	Dr. Asim Chaudhuri
		CC-12	Studying History Writing: Indian & Western	Dr. Amiya Kumar Ghosh
		DSE-1	Life & Culture in Pre-Colonial Bengal (Pre-historic Times to Mid-18th Century)	Dr. Partha Sankha Mazumdar
		DSE-2	Life & Culture in Colonial Bengal (1857-1947)	Prof. Nivedita Chakraborty
	GENERAL	DSE-1A	Some Aspects of Society & Economy of Modern Europe : 15--18 th Century	Dr. Partha Sankha Mazumdar
		GE-1	Women Studies in India	Dr. Asim Chaudhuri
		SEC-3	An Introduction to Archaeology Dr. Amiya Kumar Ghosh	

TEACHING PLAN- 2022-23(ODD SEM)

Semester - I

History Honours

Paper – CC- I (Core Course)

HISTORY OF INDIA- I (From Earliest times to 600 AD)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Sept., 2022

I. Reconstructing Ancient Indian History

Early Indian notions of History – Sources and tools of historical reconstruction – Historical interpretations with special reference to gender, environment, technology, and regions.

Oct., 2022

II. Phases of Pre-historic Cultures

Paleolithic, Mesolithic & Neolithic cultures- regional and chronological distribution; new developments in technology and economy; subsistence, and patterns of exchange; Mehargarh - The advent of food production

Nov., 2022

III. The Harappan civilization

Origins; Antiquity and Extent settlement patterns and town planning; agrarian base; craft productions and trade; social and political organization; religious beliefs and practices; art; the problem of urban decline and the late/post-Harappan traditions.

Development of Neolithic and Chalcolithic cultures in post Harappan period.

IV. Cultures in transition

Coming of the Aryans and Aryan Debate, Vedic Literature, expansion of Brahmavarta to Aryavarta, Vedic religion and philosophy; Vedic economy and society.

Religious protest movements;

Second Urbanisation, Sixteen Mahajanpadas to the rise of Magadha.

Dec., 2022

V. Changing political formations (circa 300 BCE to circa CE 300):

The Mauryan Empire & politics- Asoka and the Fall of the Mauryas

Post-Mauryan Polities with special reference to the Kushanas and the Satavahanas; Gana-Sanghas.

Rise of the Guptas, development of Gupta Empire, Gupta Art, Architecture and Literature

VI. Society Economy and Culture in Early India

Agrarian expansion: land grants, changing production relations; graded Land rights and peasantry.

Urban growth: north India, central India and the Deccan; craft production: trade and trade routes; coinage

Social stratification: class, varna, jati, untouchability; gender; marriage and property relations

The problem of urban decline: patterns of trade, currency, and urban Settlements.

Semester - I

TEACHING PLAN- 2022-23(ODD SEM)

History Honours

Paper – CC- II (Core Course)

SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE ANCIENT WORLD

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Sept., 2022

I. Evolution of human Society& Food production : Beginnings of agriculture and animal husbandry

Oct., 2022

II. Bronze Age Civilizations in general with reference to Mesopotamia (upto the Akkadian Empire)-
economy, social stratification, state structure and religion

Nov., 2022

III. Nomadic groups in Central and West Asia: Debate on the advent of iron and its implications

IV. Polis in ancient Greece: origin, features, nature and class composition; Sparta and Athens;
decline of the Polis

Dec., 2022

V. Peloponnesian War: Origin; Resources of belligerents; Course of war; Melos, Mytilene, Periclean
strategy; Sicilian expedition

VI. Greek Culture and Religion: Sophists, Socrates, Games, Drama, Art and Architecture, Greek Gods.

Semester - I

TEACHING PLAN- 2022-23(ODD SEM)

Paper – CC-I A / GE- I (Core Courses)

History of India –I (From Earliest Times up to 300 CE)

6 Credits, Total Marks 75 (60+15) Total –60 Lectures

Sept., 2022

I. Sources; Prehistory and Proto-historic cultures

Sources & Interpretation - A broad survey of Palaeolithic, Mesolithic And Neolithic Cultures, Bronze age civilization - Harappan Civilization - Origin, Extent, dominant features& decline.

Oct., 2022

II. The Vedic Period

Polity, Society, Economy and Religion, Iron age with reference to PGW & Megaliths.

Nov., 2022

III. Jainism and Buddhism

Causes, Doctrines, Spread, Decline and Contributions

IV. Rise of Magadha

Emergence and growth of the Magadhan Empire

Conditions for the rise of Mahajanpadas and the Causes of Magadha's success;

The Iranian and Macedonian Invasion

Dec., 2022

V. The Mauryan Empire

State and Administration of the Mauryas, Economy, Ashoka's Dhamma, Art & Architecture.

VI. Post Mauryan Period The Satvahana Phase: Aspects of Political History, Material Culture, and Administration & Religion

The Sangam Age: Samgam Literature, The three Early Kingdoms, Society & the Tamil language

The age of Sakas and Kushanas: Parthians & Kushanas, Aspects of Polity, Society, Religion, Arts & Crafts, Coins, Commerce and Towns.

TEACHING PLAN- 2022-23(ODD SEM)

Semester - III

History Honours

Paper – CC- V (Core Course)

HISTORY OF INDIA IV (circa 1206 CE–circa 1525 CE)

6 credits, Total 75 marks (60 + 15) Total –60 Lectures

Sept., 2022

I. Sources for studying/Interpreting the Delhi Sultanate

Survey of sources: Persian tarikh tradition; vernacular histories; epigraphy

Oct., 2022

II. Sultanate Political Structures Foundation, expansion and consolidation of the Sultanate of Delhi; The Khaljis and the Tughluqs; Mongol threat and Timur's invasion; The Lodis: Conquest of Bahlul and Sikandar; Ibrahim Lodi and the battle of Panipat Theories of kingship; Ruling elites; Sufis, ulama and the political authority; imperial monuments and coinage

Nov., 2022

III. Regional Political structures Emergence of provincial dynasties: Bahamanis, Vijayanagar and Bengal Consolidation of regional identities; regional art, architecture and literature

IV. Sultanate Society and Economy-1 Iqta and the revenue-free grants Agricultural production;

Dec., 2022

V. Sultanate Society and Economy-2 Changes in rural society; revenue systems Monetization; market regulations; growth of urban centers; trade and commerce; Indian Ocean trade

VI. Religion and Culture Sufi silsilas: Chishtis and Suhrawardis; doctrines and practices; social roles Bhakti movements and monotheistic traditions in South and North India; Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition

Semester - III

TEACHING PLAN- 2022-23(ODD SEM)

History Honours

Paper – CC- VI (Core Course)

RISE OF THE MODERN WEST – I (15th& 16th centuries)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Sept., 2022

I. Transition from feudalism to capitalism: problems and theories.

Oct., 2022

II. Early colonial expansion: motives, voyages and explorations; the conquests of the Americas: beginning of the era of colonization; mining and plantation; the African slaves.

Nov., 2022

III. Renaissance: its social roots, city-states of Italy; spread of humanism in Europe; Art.

IV. Origins, course and results of the European Reformation in the 16th century.

Dec., 2022

V. Economic developments of the sixteenth century: Shift of economic balance from the Mediterranean to the Atlantic; Commercial Revolution; Influx of American silver and the Price Revolution.

VI. Emergence of European state system: Spain; France; England

Semester - III

History Honours

Paper – CC- VII (Core Course)

Name of the Teacher- Dr. Asim Chaudhuri

HISTORY OF INDIA (1526 – 1757 CE)

6 credits, Total 75 marks (60 + 15) Total – 36 Lectures

Sept., 2022

I. Sources and Historiography

Persian literary culture; translations Literature in regional languages.

Oct., 2022

II. Establishment of Mughal rule

Babur's invasion of India - Struggle for Empire in North India –significance of Babar and Humayun's reign - Significance of Afghan despotism and rise of Sher Shah to power, His administrative and revenue reforms

Nov., 2022

III. Akbar &Consolodation of Mughal Empire

Akbar's Conquests - his Rajput Policy & administrative and religious reforms, Reign of Jahangir, Nurjahan- her role in imperial politics; The Mughals and the North Western frontier and central Asia.Making of a new imperial system and administration, the Mughal nobility, Mansab and Jagir.

IV. Mughal Empire under Aurangazeb

State and religion under Aurangzeb; issues in the war of success ion; policies regarding Religious groups and Institutions -Conquests and limits of expansion - Beginning of the crisis: contemporary perceptions; agrarian and Jagir crises; revolts. Inland and ocean trade network.

Dec., 2022

V. Mughal Art, Architecture & Painting

TEACHING PLAN- 2022-23(ODD SEM)

VI. Patterns of Regional Politics Rajput political culture and state formation -Rise of Maratha power under Shivaji, & expansion under the Peshwas - emergence of regional powers – case studies of Maharashtra, Awadh and Bengal; Bengal Nawabs and the rise of the English East India Company in Bengal. Debate of the 18th Century on the decline of the Mughal Empire.

Semester - III

History Honours

Paper – SEC- I (Skill Enhancement Courses)

Archives and Museums in India

2 Credits, Total marks – 50 Total – 40 Lectures

This course introduces students to the institutions that house and maintain documentary, visual and material remains of the past. Museums and archives are among the most important such repositories and this course explains their significance and how they work. Students will be encouraged to undertake collection, documentation and exhibition of such materials in their localities and colleges. Visit to National Archives and National Museum are an integral part of the course.

Sept., 2022

I. Definition and history of development (with special reference to India)

Oct., 2022

II. Types of archives and museums: Understanding the traditions of preservation in India
Collection policies, ethics and procedures
Collection: field exploration, excavation, purchase, gift and bequests, loans and deposits, exchanges, treasure trove confiscation and others

Nov., 2022

Documentation: accessioning, indexing, cataloguing, digital documentation and de-accessioning
Preservation: curatorial care, preventive conservation, chemical preservation and restoration

III. Museum Presentation and Exhibition

Dec., 2022

IV. Museums, Archives and Society: Education and communication Outreach activities

Semester - III

TEACHING PLAN- 2022-23(ODD SEM)

History General

Paper – CC- IC / GE- III (Core Course)

HISTORY OF INDIA –III (FROM 1206-1707 AD)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

Sept., 2022

I. Political History of the Delhi Sultanate Foundation, Expansion and Consolidation of the Delhi Sultanate—Ilbari Turks, Khaljis and the Tughlaqs Nature of the State, nobility and the Ulema, Economic reforms

Oct., 2022

II. Regional Political Formations Bengal Vijaynagar and the Bahamani Kingdoms

III. Mughal ascendancy till the time of Akbar (1605 CE)

Nov., 2022

Babar; Mughal- Afgan conflict, Akbar

IV. Mughal Power in the post Akbar Era (1606-1707 CE) Mughal empire from Jahangir to Aurangzeb

Dec., 2022

V. Economy and Society Revenue administration from iqta, jagir and mansabdari. Inland and oceanic trade

VI. Religion, Art and Architecture Religion;-Sufism, and Bhakti movement Art---painting, sculpture and architecture Literature—Persian and regional

Semester - III

History General

Name of the Teacher – Prof. Nivedita Chakraborty

Paper – SEC- I (Skill Enhancement Courses)

Archives and Museums in India

2 Credits, Total marks – 50 Total – 40 Lectures

This course introduces students to the institutions that house and maintain documentary, visual and material remains of the past. Museums and archives are among the most important such repositories and this course explains their significance and how they work. Students will be encouraged to undertake collection, documentation and exhibition of such materials in their localities and colleges. Visit to National Archives and National Museum are an integral part of the course.

Sept., 2022

I. Definition and history of development (with special reference to India)

II. Types of archives and museums: Understanding the traditions of preservation in India

Oct., 2022

Collection policies, ethics and procedures Collection: field exploration, excavation, purchase, gift and bequests, loans and deposits, exchanges, treasure trove confiscation and others

Documentation: accessioning, indexing, cataloguing, digital documentation and de-accessioning

Preservation: curatorial care, preventive conservation, chemical preservation and restoration

Nov., 2022

III. Museum Presentation and Exhibition

Dec., 2022

IV. Museums, Archives and Society: Education and communication Outreach activities

TEACHING PLAN- 2022-23(ODD SEM)

Semester – V

History Honours Paper – CC- XI (Core Course)

HISTORY OF MODERN EUROPE- II (1789-1870)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

August, 2022

I. The French Revolution and its European repercussions

Crisis of Ancien regime --- Political, social, economic and intellectual background (role of Philosophers) of the French Revolution , The revolution in the making – the Aristocratic Revolt and the consolidation of the Third Estate. The Constituent Assembly; Radicalization of the Revolution; the reign of Terror and the Thermidorian reaction; social base of the Revolution- Sans culottes, peasants and women; the directory and its achievements and failures.

Sept. 2022

II. Napoleon Bonaparte and the French Revolution Rise of Napoleon; Napoleonic reforms, Napoleonic Empire and Europe Fall of Napoleon: The Continental System; The Spanish Ulcer; The Moscow campaign. Assessment of Napoleon: Character of the French Revolution; Impact of French Revolution on Europe and abroad.

Oct., 2022

III. Restoration and Revolution (1815-1848) Vienna Congress; Concert of Europe; Metternich system Greek War of Independence, Revolution of 1830 & 1848, & their Impact

Nov., 2022

IV. Industrialization and socio economic transformation Industrial Revolution; Definition and characteristics; Pre Industrial society; Industrial Revolution in Britain; Impact on society, economy and politics. Industrialization in the continents, case study of France, Germany and Russia. Emergence of working class and its movements; early Utopian socialist thoughts.

Dec., 2022

V. Age of Nationalism Unification of Italy and Germany nSpecificities of economic development, political and administrative re organization – Italy and Germany The second Empire in France and Louis Napoleon

VI. The Eastern Question

The Crimean War; Treaty of Paris, Balkan Nationalism

Sem- V

History Honours Paper – CC- XII (Core Course)

STUDYING HISTORY WRITING: INDIAN & WESTERN

TEACHING PLAN- 2022-23(ODD SEM)

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

August 2022

I. Time, Space & Human Agency Notion of Time and Space in History

Sept. 2022

II. Importance of sources in History

Written, Oral, Visual and Archaeological Sources - Classification of Primary and Secondary sources – Source criticism and authentication

Oct., 2022

III. Philosophy and Theory of History Facts and Interpretation - Philosophy of History – Hypothesis, argumentation and Problematique - Objectivity/Subjectivity in History – Historical Narrative and Generalization

Nov., 2022

IV. Indian & Western Historiography Pre-colonial forms of writing Indian History - Different schools of Indian historiography (Cambridge, Nationalists, Marxists, Subaltern) - Different schools of Western historiography (Rationalist, Romantist, Positivist, Marxist and Annales)

Dec., 2022

V. History and other disciplines bRelationship between History and Science - History and Anthropology - History and Literature etc.

VI. Research Process in History Different stages and steps involved in the process of doing research in History

Sem – V

History Honours

Paper – DSE- I (Discipline Specific Elective)

LIFE AND CULTURE IN PRE-COLONIAL BENGAL: Prehistoric times to mid 18th century.

6 Credits, Total 75 marks (60 + 15) Total Lectures – 60

August, 2022

I. The land environs and places

Historical Geography- ancient and medieval divisions

Sept., 2022

II People and Society

Demography and ethnology – earliest inhabitants; Aryanization of Bengal; Rise of different castes and communities of Bengal; Life of the people-position of women, dress, foods, games and leisure, conveyance

Oct., 2022

III. Political development of Bengal-an overview

Bengal up to Gupta period; Rise of sovereign Bengal; The Muslim invasion and rise of Islam in Bengal up to the rule of the Nawabs

Nov., 2022

IV. Economic life in Bengal Agriculture, crafts and industries; Trade and commerce; Rise of Calcutta and Murshidabad; Emergence of Zamindari system.

V. Religions and art in Bengal Spread of Brahmanism and Brahmanic culture; Vaisnavism; Spread of Buddhism and Jainism; Islam and Bengal; Srichaitanya and Bhakti movement, Sufism; Architecture, sculpture and other forms of art; monastic and temple architecture with reference to Paharpur,

TEACHING PLAN- 2022-23(ODD SEM)

Bishnupur; terracotta art

Dec., 2022

VI. Literature and traits of regional culture

- a) Pre Bengali Sanskrit literature- kavyas, Jaydeb, UmapatiDhar, Dhoyi
- b) The rise and development of Bengali language and literature- Charyapada; Kirtivasa and Kasiram Das, the Mangalkavyas, c) Origin of Folk traditions of Bengal

Sem- V

Paper – DSE- II (Discipline Specific Elective), Honours

LIFE AND CULTURE IN COLONIAL BENGAL (1757-1947)

6 Credits, Total 75 marks (60 + 15) Total Lectures – 60

August, 2022

1. Establishment of East India Company's rule in Bengal

- a) Relation between the East India Company and Bengal Nawabs- especially Sirajudaullah.
- b) Battle of Plassy to grant of Diwani, Dual Government, Famine of 1770
- c) Experiments in Revenue Administration and Establishment Permanent Settlement-Social and Economic impact of the Permanent Settlement.

Sept. 2022

2. Changes in Social and Economic life up to 19th Century

- a) The Village community, so called self sufficient Village breaking the said society; Introduction of money index in place of cast system in social status.
- b) Rise and growth of Calcutta and decline of the old urban centers.
- c) Popular protests in the 19th Century- Sannyasi, Wababi, Faraiji, Indigo Revolts & Pabna uprising.

Oct., 2022

3. Impact of company's Rule

- a) Western Education- Role of Missionaries; Women's Education- Medical Education –Emergence of educated middle class. b) The Bengal Renaissance –Religious and social Reforms Movements- Rammohan Roy, Vidyasagar, Young Bengal, Brahma Samaj, Bankim Chandra Chattopadhyay, Vivekananda; The Muslim and Non- Bengalis in Bengal. c) De-industrialization and emergence of Labour Force; Impact of Railways.

Nov., 2022

4. Cultural Scenario in 19th Century

- a) Bengali Language and Literature; Printing and Press b) Visual & performing arts, painting, Music , Theatre
- c) Popular religions – (Sahebhdhani, Kartabhaja, Lalansahi,), Culture- (Yatra, Kabigan)
- d) Science, Technology and Medicine

5. Emergence of Nationalism

- a) Swadeshi Movement and impact, b) Rise of Extremism; Foundation of Muslim League;
- c) Gandhian ideology in Bengal,
- d) Non- co operation, Civil Disobediences and Quit India Movement in Bengal.

Dec., 2022

6. Changes in the 20th Century

- a) Influence of Nationalism on Literature;Introduction of popular Utsab and Melas

TEACHING PLAN- 2022-23(ODD SEM)

- b) Evolution Theatres in the 20th Century
- c) Visions of integration and humanity – Rabindranath, Kazi Nazrul and Sarat Chandra Chattopadhyay
- d) Social and cultural impact of the Partition; changing role of Women in Society.

Semester – V

History General

Paper – DSE- IA (Discipline Specific Elective)

SOME ASPECTS OF SOCIETY & ECONOMY OF MODERN EUROPE: 15-18 CENTURY

6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

August., 2022

1. Political and Economic Structure of the Feudal Era
 - a. Origins of Feudalism
 - b. Nature of Feudal Society; Regional Variation
 - c. Crisis in Feudalism ; Transition debate

Sept., 2022

2. Renaissance & the Rise of Modern Europe
 - a. Origins; Reason
 - b. Renaissance humanism; rediscovery of Classics
 - c. Italian Renaissance and its Impact

Oct., 2022

3. European Reformation
 - a. Background, nature and impact
 - b. Martin Luther & Protestant Reformation
 - c. Reformation Movements and European States

Nov., 2022

4. European Economy in the 16th Century
 - a. Economic expansion of Europe in the 16th Century
 - b. The rise of new marchants
 - c. Price revolution & Agriculture Revolution

Dec., 2022

5. Science & Technology
 - a. Origins of the Modern science
 - b. Scientific Revolution
 - c. Origins of Enlightenmen
6. Transition from Feudalism to Capitalism
 - a. Transition to Capitalism and its debates.
 - b. Nature of the Capitalism
 - c. Industrial Revolution in England.

TEACHING PLAN- 2022-23(ODD SEM)

History General , Sem-V
Paper – GE I (Generic Elective Paper)
Women Studies in India
6 credits, Total 75 marks (60 + 15) Total – 60 Lectures

August, 2022

I. Basic Concepts & Theories

a. Defining Gender

b. Patriarchy: Ideology and Practice

c. Relationship between Gender, Caste, Class Religion & Politics

Sept., 2022

II. Emergence of Women Studies in India

a. A Survey from the 1980s

b. Women Studies: Regional Centres; the Core-Periphery discourse

c. Academic connect with Activism

Oct., 2022

III. Gender & Social History

a. Family & Marriage

b. Women's question in the 19th century

c. Women's movement in Colonial & Post-Colonial India

Nov., 2022

IV. Gender, Law & Politics

a. Political Participation

b. Violence against Women – Preventive laws

Dec., 2022

V. Gender & Development

a. Issues of Labour & Health

b. Access to resources

c. Gender Audit

VI. Gender & Culture

a. Cultural Practices and Gender

b. Interrogating Gender through the lens of culture

c. Regional Cultures and Gender in India

TEACHING PLAN- 2022-23(ODD SEM)

**History General
Paper – SEC III (Skill Enhancement Course)
An Introduction to Archaeology**

2 Credits, Total marks – 50 Total – 40 Lectures

August, 2022

I. Definition & Components

Sept., 2022

II. Historiographical Trends

Oct., 2022

III. Research Methodologies

Nov., 2022

IV. Definition of Historical Sites & Explorations

Dec., 2022

V. Field Work & Tools of research

VI. Documentation, Codification, Classification, Analysis of findings and publication

ODD SEM 2022-23

DEPARTMENT OF PHILOSOPHY

**TEACHING PLAN OF Mr. DASARATH MURMU
Philosophy (G) (2022-23) (July 2022 – June 2023)**

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory: CC- 1: Indian Philosophy Unit 1:Introduction: General Features of Indian Philosophy	4			Theory GE: Indian Philosophy Unit 1:Introduction: General Features of Indian Philosophy	6
Aug	Theory: CC-1: Unit 2: <i>Cārvāka</i> : (a) <i>pratyakṣa</i> (perception) as the only Source of Knowledge	4			Theory GE: Unit 2: <i>Cārvāka</i> : (a) <i>pratyakṣa</i> (perception) as the only Source of Knowledge, (b) Refutation of <i>anumāna</i> (inference) and <i>śabda</i> (testimony) as Sources of Knowledge	5
Sept	Theory: CC-1: Unit 2: (b) Refutation of <i>anumāna</i> (inference) and <i>śabda</i> (testimony) as Sources of Knowledge	4			Theory GE: Unit 2: (c) <i>jaḍavāda</i> and <i>dehātmavāda</i>	6
Oct	Theory: CC-1: Unit 2:(c) <i>jaḍavāda</i> and <i>dehātmavāda</i>	2			Theory GE: Unit 6: <i>Sāṃkhya</i> : <i>Satkāryavāda</i> (Theory of Causality)	3
Nov	Theory: CC-1: Unit 6: <i>Sāṃkhya</i> : (a) <i>satkāryavāda</i> (Theory of Causality) (b) <i>pariṇāmavāda</i> (Theory of Evolution)	4			Theory GE: Unit 9: <i>AdvaitaVedānta</i> : <i>Brahman</i>	6

Dec	Theory: CC-1: Unit 8: <i>Advaita Vedānta: Brahman, jīva and jagat</i>	3			Theory GE: Unit 9: <i>jīva and jagat.</i>	5
Jan	Sem-II (G) Theory CC: Western Philosophy Unit 1: Metaphysics: Nature of Metaphysics	4	Sem-IV (G) Theory SEC- 2: Philosophy of Human Rights Unit 1: Introduction & Definition and Nature of Human Rights	5	Sem-VI (G) Theory SEC: Ethics in Practice Unit 1: Morality and Ethics	6
Feb	Theory CC: Unit 1: Elimination of Metaphysics	4	SEC- 2: Unit 2: The Idea of Human Rights: Its Origins and Historical Developments during Ancient period, Modern Period and Contemporary Period	5	Theory SEC: Unit 2: Motive and Intention	6
Mar	Theory CC: Unit 2: Realism: Naïve Realism, Scientific Realism, Representative Realism	4	SEC- 2: Unit 3: The Idea of Natural Law and Natural Rights: Thomas Hobbes and John Locke	5	Theory SEC: Unit 3: Moral Action	6

Apr	Theory CC: Unit: 2 Realism: Naïve Realism, Scientific Realism, Representative Realism	4	Theory SEC- 2: Unit 4: The Idea of Natural Law and Natural Rights: John Locke	5	Theory SEC: Unit 3:Moral Judgment	6
May	Theory CC: Unit 3: Idealism: Subjective Idealism, Objective Idealism	4	Theory SEC- 2: Unit 5:Natural Right, Fundamental Right and Human Right	5	Theory SEC: Unit 4: Normative Theories: (a) Ethical Egoism & Utilitarianism	6
June	Theory CC: Unit 4: Critical Theory of Kant	4	Theory SEC- 2: Unit 6:Preamble, Fundamental Rights and Duties (Indian Constitution)	5	Theory SEC: Unit 4: (b) Kant's Moral Theory	6

Head of the Department,
Department of Philosophy,
Suri Vidyasagar College

DEPARTMENT OF PHILOSOPHY

**TEACHING PLAN OF Mr. DASARATH MURMU
Philosophy (Honours) (2022-23) (July 2022 – June 2023)**

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC-1: Outlines of Indian Philosophy—I Unit 1: Detailed Introduction: (a) General Features of Indian Philosophy	8	Theory CC- 6: Western Ethics - Unit1: Introduction &Nature and Scope of Ethics	15	Theory CC- 11: Unit 1: Introduction &Nature and Scope of Social Philosophy and Political Philosophy	17
Aug	Theory: CC-1: Unit 2: (b) Spirit of Indian Philosophy, (c) Basic Concepts of the Vedic and the Upaniṣadic World-Views	8	Theory CC- 6: Unit 2: Nature of Morality& Moral and Non-moral actions & Object of Moral Judgment: Motive and Intention	14	Theory CC- 11: Unit 2: Basic Concepts: Society, Social Group, Community, Association, Institution, Customs, Folkways and Mores	15
Sept	Theory: CC-1: Unit 3: Cārvāka: (a) Perception as the only Source of Knowledge, Refutation of Inference and Testimony as Sources of Knowledge	8	Theory CC- 6: Unit 3: Postulates of Morality & The Development of Morality	13	Theory CC- 11: Unit 3: Social Class and Caste: Class Attitude and Class Consciousness, Marxian Theory of Class	16
Oct	Theory: CC-1: Unit 4:(b) jaḍavāda and dehātmavāda	7	Theory CC- 6: Unit 4: Normative Theories : Consequentialism (Teleology): (a) Hedonism, (b) Act Utilitarianism and Rule Utilitarianism; (c) Act Deontology and Rule Deontology, (d) Kant's Moral Theory	11	Theory CC- 11: Unit 4: B. R. Ambedkar's Criticism of Caste System, Dalit Movement.	14
Nov	Theory: CC-1: Unit 5:(b) Vaiśeṣika Metaphysics: Saptapadārtha(Seven Ontological Categories)	8	Theory CC- 6: Unit 5: Theories of Punishment: Retributive, Deterrent and Reformative Theory	13	Theory CC- 11: Unit 5: Political Ideals: i) Democracy – its different forms ii) Socialism – Utopian and Scientific	17

Dec	Theory: CC-1: Unit 6: (b) Paramāṇuvāda	7	Theory CC- 6: Unit 6: Issues in Applied Ethics : (a) Suicide, (b) Euthanasia, (c) Gender Equality, (d) Affluence and Morality	15	Theory CC- 11: Unit 6: Political Ideals: i) Nation, Nationalism and Internationalism (Rabindranath) ii) Radical Humanism (Manabendranath Roy)	16
	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	Theory CC- 3:Outlines of Indian Philosophy-II Unit 1: Sāṅkhya : (i) satkāryavāda, (ii) pañcaviṃśatitattva and tattvaparīṇāma, (iii) prakṛti and its guṇa-s, (iv) Notion of puruṣa,bahupurusavāda	3	Theory SEC- 2:Philosophy of Human Rights Unit 1: Introduction &Definition and Nature of Human Rights	5	Theory CC- 14:Philosophy in the Twentieth Century: Western Unit 1: G. E. Moore: A Defence of Common Sense	6
Feb	Theory CC- 3: Unit 4: AdvaitaVedānta: (i) vivartavāda,, (ii) māyā,	8	SEC- 2: Unit 2: The Idea of Human Rights: Its Origins and Historical Developments during Ancient period, Modern Period and Contemporary Period	11	Theory CC 14: Unit 2: B. Russell: Knowledge by Acquaintance and Knowledge by Description	14
Mar	Theory CC3: Outlines of Indian Philosophy—II Unit 4: AdvaitaVedānta: (iii) Brahman, jīva and jagat	8	SEC- 2: Unit 3: The Idea of Natural Law and Natural Rights: Thomas Hobbes and John Locke	10	Theory CC 14: Unit 3: L. Wittgenstein: Theory of Meaning	16
Apr	Theory CC 3: Outlines of Indian Philosophy—II Unit 5: ViśiṣṭādvaitaVedānta: (i) Distinction between advaitavāda and viśiṣṭādvaitavāda	9	Theory SEC- 2: Unit 4: The Idea of Natural Law and Natural Rights: John Locke	14	Theory CC 14: Unit 4: A. J. Ayer: Verifiability Theory of Meaning	17

May	Theory CC 3: Outlines of Indian Philosophy—II Unit 5: ViśiṣṭādvaitaVedānta:(ii) Nature of īśvara, jīva and jagat	7	Theory SEC- 2: Unit 5: Natural Right, Fundamental Right and Human Right	12	Theory CC 14: Unit 5: M. Heidegger: (a)Being in the World : Existenz, Facticity and Falleness and (b)Authenticity and Inauthenticity	15
June	Theory CC 3: Outlines of Indian Philosophy—II Unit 5: ViśiṣṭādvaitaVedānta: (iii) Criticism of Sāṅkara’s Doctrine of māyā	8	Theory SEC- 2: Unit 6: Preamble, Fundamental Rights and Duties (Indian Constitution)	11	Theory CC 14: Unit 6: J. P. Sartre: (a) Nothingness and (b) Freedom	14

Head of the Department,
Department of Philosophy,
SuriVidyasagar College

**TEACHING PLAN (HONS. & GENL.) OF FACULTY MEMBERS OF DEPARTMENT OF PHYSIOLOGY FOR
SESSION 2022-2023**

DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

DR. AMAL KUMAR PARI

Physiology (Honours) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC2: A Study of Units for Measuring Concentration Solutes: Moles, Equivalents, Osmoles	8	Theory CC6: Origin of the Heartbeat & the Electrical Activity of the heart	8	Theory CC11: Introduction Anatomic Considerations The Image-Forming Mechanism (accommodation and visual acuity) The Photoreceptor Mechanism: Genesis of Electrical Responses Visual Pathways and effects of lesions of these pathways	8
	Principles of Dilution, pH, Buffers Proteolysis of water, pH, acid-base neutralization curves Bonds and Forces in Biomolecules Colloids, Properties, importance Colloids: Classification, properties—optical, electrical, electro kinetic. Biological importance of colloids Practical: CC2: Determination of Oncotic Solution Colloidal solutions		Introduction Origin & Spread Of Cardiac Excitation Cardiac action potential. Origin and propagation of cardiac impulse. The Electrocardiogram Electrocardiography –the normal electrocardiogram, electrocardiographic leads, vectorial analysis, the vectorcardiogram, the mean electrical axis of heart. The His bundle electrogram. Cardiac Arrhythmias		Practical: Measurement of blood pressure before and after different grades of exercise. Recording of recovery heart-rate after standard exercise.	
		Cardiac Arrhythmias – Normal cardiac rate. Myocardial Infarctions. Cardioplegic solutions. Electrocardiographic Findings in Other Cardiac & Systemic Diseases, hypertrophy and cardiac myopathy Practical CC7: Experiments on superficial (plantar) and deep (knee jerk) reflex Measurement of grip strength	4			
			Theory SEC1A: Detection of food additives/ adulterants Qualitative tests for Food Adulteration Qualitative test for identifying Food Adulterants in some food samples: Metanil yellow, Rhodamin B, Saccharin.	3		

<p style="text-align: center;">Aug</p>	<p>Theory: CC2: Surface tension, Specific Gravity Surface tension and Specific Gravity: characteristics, factors influencing and biological applications Viscosity and Resistance Viscosity and Resistance characteristics, factors influencing and biological applications Acids, Bases, Buffers and pH Buffer action: Henderson-Hasselbalch equation. Regulation of pH by blood buffers. Determination of pH– Basic concept of indicators, principle of pH meter– hydrogen electrode and glass electrode Flow and Pressure Diffusion and Osmosis: osmotic pressure– laws.</p> <p>Practical: CC2: Determination of enzyme activities (eg. SOD, CAT)</p>	<p style="text-align: center;">8</p> <p>Theory CC6: The Heart as a Pump</p> <p>Introduction</p> <p>Anatomy of the heart. Properties of cardiac muscle. Cardiac Innervation. Stannius ligature. Mechanical Events of the Cardiac Cycle</p> <p>The cardiac cycle- pressure and volume changes. Heart sounds. Murmurs. Cardiac Output</p> <p>Cardiac output– measurement by application of Fick’s principle and dye dilution method, factors affecting. Starling’s law of heart.</p> <p>Dynamics of Blood & Lymph Flow Introduction Anatomic Considerations Functional morphology of arteries, arterioles, capillaries, venules and veins, sinusoids. General pattern of circulation and significance of branching of blood vessels. Biophysical Considerations Hemodynamics of blood flow. Arterial & Arteriolar Circulation Capillary Circulation Lymphatic Circulation & Interstitial Fluid Volume Venous Circulation</p> <p>Practical CC7: Reaction time by stick drop test</p> <p>Short term memory test (shape, picture word)</p> <p>Theory SECIA: Qualitative test for identifying Food Adulterants in some food samples: Monosodium glutamate, Aluminium foil, Chicory.</p> <p style="text-align: center;">4</p>	<p style="text-align: center;">9</p> <p>Theory DSE2B: Color Vision Other Aspects of Visual Function Eye Movements Errors in visual process</p> <p>Practical: DSE2B: Determination of Physical Fitness Index by Harvard Step Test (Modified). Determination of VO2max by Queen College step test.</p> <p style="text-align: center;">4</p>	<p style="text-align: center;">8</p> <p style="text-align: center;">4</p>
<p style="text-align: center;">Sept</p>	<p>Theory: CC2: Dialysis and Ultracentrifugation Chromatography Electrophoresis Autoradiography Cell Fractionation and Tracer Techniques Nanoparticles and its application in Physiology</p> <p>Practical: CC2: Practice Determination of Oncotic Solution Colloidal solutions</p>	<p style="text-align: center;">8</p> <p>Theory CC6: Cardiovascular regulatory Mechanisms</p> <p>Introduction Local Regulatory Mechanisms Cardiac and vasomotor centers, baroreceptors and chemoreceptors, cardiac and vasomotor reflexes. Substances Secreted by the Endothelium Systemic Regulation by Hormones Systemic Regulation by the Nervous System</p> <p style="text-align: center;">2</p> <p>Cardiovascular homeostasis–neural and chemical control of cardiac functions and blood vessels.</p> <p>Circulation Through special Regions Introduction Cerebral Circulation Anatomic Considerations Cerebrospinal Fluid The Blood-Brain barrier Cerebral Blood Flow Regulation of Cerebral Circulation Brain Metabolism & Oxygen Requirements</p> <p>Practical CC7: Two point discrimination test Theory SECIA: Qualitative test for identifying Food Adulterants in some food samples: Bisphenol A and Bisphenol S, Chocolate Brown HT, Margarine</p> <p style="text-align: center;">2</p> <p style="text-align: center;">3</p>	<p style="text-align: center;">8</p> <p>Theory DSE2B: Importance of regular exercise in health and wellbeing. Basic concept of Bioenergetics, Energy sources during exercise (Phosphagen, Anaerobic system and Aerobic system). Cardio-respiratory responses during different grades of exercise.</p> <p>Practical: DSE2B: Measurement of body fat percentage. Six minute walk test.</p> <p style="text-align: center;">4</p>	<p style="text-align: center;">8</p> <p style="text-align: center;">4</p>

Oct	Theory: CC2: Laminar and Streamline Flow Poiseuille- Hagen Formula Laws of Laplace	6	Theory CC6: Coronary Circulation Splanchnic Circulation Circulation of the skin Placental & Fetal Circulation	8	Theory DSE2B: Concept of excess post exercise oxygen consumption (EPOC), physiological fatigue and recovery.	6		
	Practical: CC2: Practice Determination of enzyme activities (SOD).		2		Practical CC7: Practice Experiments on superficial (plantar) and deep (knee jerk) reflex Measurement of grip strength		4	Aerobic work Capacity: Measurement, physiological factors and applications Sports injury and its' management.
			Theory SEC1A: Qualitative test for identifying FoodAdulterants in some fo Pb, Hg, As, PCB, Dioxin etc in turmeric powder, besan, laddooood		3		Practical: DSE2B: Determination of endurance time by hand grip dynamometer	4

Nov	Theory: CC2: Thermodynamics Thermodynamics: Type of surroundings and systems, First Law–Internal energy, enthalpy. Second Law–Entropy, Free energy change, Endergonic and Exergonic reactions, Reversible and Irreversible processes, Equilibrium constant Physiological steady-state, Living body as a Thermodynamic system	5	Theory CC6: Cardiovascular Homeostasis in Health & Disease Introduction Compensation for Gravitational Effects Exercise Inflammation & Wound Healing Shock Cardiovascular adjustment after haemorrhage. Hypovolemic and hypervolemic shock. RTI and atherosclerosis. Hypertension The pulse – arterial and venous. Blood pressure– its measurement and factors affecting. Heart Failure, stroke	8	Theory DSE2B: Training: Principles of physical training, Training to improve aerobic and anaerobic power. Effect of overtraining and detraining. Nutritional supplements and ergogenic aids. Basic idea sports rehabilitation and sports medicine.	8		
	Practical: Practice Determination of enzyme activities (CAT)		2		Practical CC7: Practice Two point discrimination test		2	Practical: DSE2B: Determination of endurance time by hand grip dynamometer
			Theory SEC1A: Qualitative test for identifying FoodAdulterants in some fo Pb, Hg, As, PCB, Dioxin etc in , noodles, chocolate and amriti.		4			

Dce	Theory: CC2: Revision	4	Theory CC6: Revision	4	Theory DSE2B: Revision	4	
	Practical Practice	4	Practical Practice	4	Practical Practice	4	
	Examination		Theory SEC1A: Revision Examination	3	Examination		
Sem-II (H)			Sem-IV (H)			Sem-VI (H)	

<p>Jan</p> <p>0</p>	<p>Theory CC4: Proteins Classification of Proteins Definition and classification of proteins Classification, Structure, Nomenclature of proteins and amino acids.</p> <p>Practical: CC4: Qualitative tests for the identification of physiologically important substances: Hydrochloric acid, lactic Acid,</p>	<p>6</p> <p>Theory CC8: Nutrition – BMR, RQ, RDA, SDA, NPU, Biological value of proteins, vitamins and minerals.</p> <p>Practical: CC8: Quantitative estimation of glucose and sucrose by Benedict's method.</p> <p>4</p> <p>Theory SEC2B: Preparation of blood smear and identification of blood cells.</p>	<p>8</p> <p>Theory DSE3A: Constituents of food and their significance.</p> <p>4</p> <p>Basal metabolic rate -factors, determination by Benedict-Roth apparatus. Respiratory quotient. Specific dynamic action.</p> <p>2</p> <p>Basic concept of energy and units. Calorific value of foods. Body calorie requirements – adult consumption unit</p> <p>Practical: DSE3A: Diet Survey (Field Study Record) Diet survey report (hand-written) of a family (as per ICMR specification): Each student has to submit a report on his/her own family.</p>	<p>8</p> <p>4</p>
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June	Theory CC4: Revision	4	Theory CC8: Revision	4	Theory DSE3A: Revision	4
	Practical Practice	4	Practical Practice	4	Practical Practice	4
	Examination		Theory SEC2B: Revision Examination	2	Examination	

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**DEPARTMENT OF
PHYSIOLOGY**

TEACHING PLAN

DR. AMAL KUMAR PARI

Physiology (General/generic) (July 2022– June 2023)

Month	Sem-I (G/GE)	No. of lecture
July	Theory: CC1A: Lipids: Definition and classification. Fatty acids Classification.	2
Aug	Theory: CC1A: Properties of Fat and Fatty acids—Hydrolysis, Saponification, Saponification number, Iodine number, Hydrogenation, Rancidity-Acid number.	3
Sep	Theory: CC1A: Phospholipids, Cholesterol & its ester - physiological importance.	2
Oct	Theory: CC1A: Amino acids, Peptides and Proteins	2
Nov	Theory: CC1A: Classification and structure. Structure of peptide bonds.	2
Dec	Theory: CC1A: Revision Examination	2

Month	Sem-II (G/GE)	No. of lecture	Sem-VI (G/GE)	No. of lecture
Jan	Theory: CC1B: Basic constituents of food and their nutritional significance. Vitamins: Definition, classification, functions, deficiency symptoms and their daily requirement. Hypervitaminosis	3	Theory: SEC1A: Basic idea of doping	2
Feb	Theory: CC1B: Mineral metabolism- Ca, P, Fe	3	Theory: SEC1A: EMG	1
March	Theory: CC1B: BMR: Definition, factors affecting, determination by Benedict –Roth apparatus. Respiratory quotient: definition, factors affecting and significance	3	Theory: SEC1A: Physical fitness index-Harvard step test	1
April	Theory: CC1B: Biological value of proteins, essential and non-essential amino acids, nitrogen equilibrium Minimum protein requirement: positive and negative nitrogen balance.	2	Theory: SEC1A: ECG- Normal waves and leads	2
May	Theory: CC1B:	2	Theory: SEC1A:	1

	SDA: definition and importance		Anthropometry and its uses	
June	Theory: CC1B: Revision Examination	2	Theory: SEC1A: Revision Examination	2

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

DR. ARIJIT DEBNATH

Physiology (Honours) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	<p>Theory: CC2: A Study of Enzymes</p> <p>Structures, coenzymes and Prosthetic Groups</p> <p>Classification- EC nomenclature, Concept of apoenzyme, holoenzyme, coenzyme, cofactors and prosthetic group. Mechanism of Enzyme Action</p> <p>Mechanism of enzyme action: Activation energy, Enzyme-substrate complex, Transition state and Products. Models of enzyme-substrate interactions. Specificity of enzymes. Kinetics Concept of initial rate, maximum velocity and steady-state kinetics.</p> <p>Practical: CC2: Determination of Systolic, Diastolic, Pulse and Mean Blood Pressure by noninvasive methods (Auscultatory method).</p>	8	<p>Theory CC5:</p> <p>Red Blood Cells Haemoglobin- Structure, reactions, biosynthesis and catabolism. Foetal haemoglobin. Abnormal haemoglobins- Sickle-cell anemia and Thalassemia. Different types of anaemia and their causes.</p> <p>Practical CC7: Introduction Preparation of Amphibian Ringer solution Kymographic recording of the movements of perfused heart of toad.</p>	8	<p>Theory CC11: Introduction Anatomic considerations Hair cells</p> <p>CC12: Practical: Introduction Preparation of mammalian Ringer solution</p>	8
Aug	<p>Theory: CC2: Michaelis Constant</p> <p>Michaelis constant, Michaelis-Menten equation, Graphical representation of hyperbolic kinetics--Lineweaver-Burk plot. Significance of K_m and V_{max}.</p> <p>Practical: CC2: Determination of Systolic, Diastolic, Pulse and Mean Blood Pressure by noninvasive methods (Auscultatory method).</p>	8	<p>Theory CC5: Blood Types</p> <p>Blood group - ABO and Rh. Erythroblastosis foetalis. Blood transfusion and its hazards.</p> <p>Practical CC7: Study of the effects of changes in perfusion fluid pressure, changes in temperature.</p>	8	<p>Theory CC11: Mechanism of hearing Vestibular function Loss of hearing</p> <p>CC12: Practical: Study of the effects of oxytocin on uterine contraction</p>	6

Jan	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
	Theory CC3: Cardiac Muscle Morphology Microscopic and electron microscopic structure of cardiac muscles. Electrical Properties Mechanical Properties Metabolism Neurotransmitters, co transmitters and neuromodulators Practical: CC3: Isolation and staining of staining of nerve fibers with node (s) of Ranvier (AgNO ₃) and muscle fiber (H and E). Preparation of Sciatic nerve innervated Gastrocnemius muscle of toad.	8	Theory CC10: Pulmonary Function Introduction Properties of Gases Anatomy of the Lungs Mechanics of breathing Gas Exchange in the lungs Practical: CC9: Kymographic recording of normal movements of rat's intestine in Dale's apparatus	8	Theory CC14: Renal Circulation peculiarities and autoregulation Diuretics Disorders of Renal Functions Diabetes insipidus. Practical: DSE4A: Kymographic recording of the effects of As compounds on: the contraction of perfused heart of toad and the intestinal movements of rats in Dale's bath.	8
		6		4		6

Feb	<p>Theory CC3: Pacemaker Tissue Smooth Muscle Morphology Microscopic and electron microscopic structure of smooth muscles. Single-unit and multi-unit smooth muscle Visceral smooth Muscle Multi- unit Smooth Muscle</p> <p>Practical: CC3: Study of Kymograph, Induction coil, Key and other instruments used to study mechanical responses of skeletal muscle.</p> <p>Kymographic recording of mechanical responses of Gastrocnemius muscle to a single stimulus and two successive stimuli.</p>	8	<p>Theory CC10: Pulmonary Circulation Other Functions of the Respiratory System Gas Transport Between the Lungs & the Tissues Introduction Oxygen Transport Carbon Dioxide Transport</p> <p>Practical: CC9: Effects of hypoxia on normal intestinal movements</p>	8	<p>Theory CC14: Renal function tests–creatinine, inulin, urea and PAH clearance tests. Abnormal constituents of urine, their detection and significance. Renal dialysis. Artificial Kidney.</p> <p>Practical: DSE4A:</p> <p>Kymographic recording of the effects of, Pb compounds on: the contraction of perfused heart of toad, the intestinal movements of rats in Dale's bath.</p>	8
Mar	<p>Theory CC3: Synaptic and Junctional Transmission Introduction Synaptic Transmission Functional Anatomy Synapses: types, structure, synaptic transmission of the impulse., Electrical Events at Synapses synaptic potentials Inhibition and Facilitation at Synapses Chemical Transmission at Synaptic Activity</p> <p>Practical: CC3: Kymographic recording of the effects of variations of temperature on single muscle twitch.</p>	8	<p>Theory CC10: Respiratory acidosis and alkalosis Regulation of Respiration Introduction Neural control of Breathing Chemical Control of Breathing Nonchemical Influences on Respiration</p> <p>Practical: CC9: Effects of acetylcholin on normal intestinal movements</p>	8	<p>Theory CC14: Filling of the Bladder Physiology of urinary bladder Emptying of the Bladder Micturition. Non-excretory function of kidney</p> <p>Practical: DSE4A: Kymographic recording of the effects of Hg compounds on: the contraction of perfused heart of toad, the intestinal movements of rats in Dale's bath.</p>	8
Apr	<p>Theory CC3: Principal neurotransmitter Systems Synaptic Plasticity and learning Neuromuscular Transmission Neuromuscular Junction The neuromuscular junction : structure, transmission, end- plate potential, MEPP and post-tetanic potentiation. Motor unit and Motor point. Denervation Hypersensitivity Practical: CC3: Kymographic recording of the effects of variations of load (after-load) on single muscle twitch. Calculation of work done by the muscle.</p>	8	<p>Theory CC10: Respiratory Adjustments in Health & Disease Introduction Effects of Exercise Other Forms of Hypoxia Oxygen Treatment</p> <p>Practical: CC9: Effects of adrenaline on normal intestinal movements</p>	8	<p>Theory DSE4A: Toxins and Toxicology Factors Affecting toxicity LD50, LOD50, ED50, NOEL, LOEL Concept of Acute and Chronic Effects</p> <p>Practical: DSE4A: Histochemical studies: chronic effects of food additives and arsenic compounds on liver, kidney, intestinal tissues in rat.</p>	8
May	<p>Theory CC3: Initiation of Impulses in Sense Organs Introduction Sense Organs and Receptors Classification of general and special senses. Receptors as biological transducers. General concept of ionotropic and metabotropic receptors. Structure, sub-types and functions of nicotinic and muscarinic acetylcholine receptors. Adrenoceptors, glutamate receptors (NMDA and AMPA receptors), GABA, opiate, serotonin, dopamine and histamine receptors. The Senses Electrical and Ionic Events in Receptors</p>	10	<p>Theory CC10: Hypercapnia & Hypocapnia Other Respiratory Abnormalities Effects of Increased Barometric Pressure Artificial Respiration</p> <p>Practical: CC9: Practice Effects of acetylcholine and adrenaline on normal intestinal movements</p>	8	<p>Theory DSE4A: Birth defects and Teratogens Concepts of Biomagnification and Bioconcentration Popular Food Additives and Food Adulterants Prevention of Food Adulteration Act, 1954</p> <p>Practical: DSE4A: Histochemical studies: chronic effects of food additives and arsenic compounds on brain, muscle and lung tissues in rat.</p>	8

	Muller's law of specific nerve energies. Weber-Fechner law, Steven's power law. Sensory transduction in Pacinian corpuscle. Adaptation of receptors- phasic and tonic adaptations. "Coding" of Sensory Information CC4T Practical: CC3: Determination of nerve conduction velocity	4			
June	Theory CC3: Revision	6	Theory CC10: Revision	6	Theory DSE3A: Revision
	Practical Practice	4	Practical Practice	6	Practical Practice
	Examination		Examination		Examination

Faculty Induction Programme (8th) under UGC-HRDC, Jadavpur University from 13.6.2022 to 13.7.2022

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**DEPARTMENT OF
PHYSIOLOGY**

TEACHING PLAN

DR. ARIJIT DEBNATH

**Physiology (General/generic) (July 2022 – June
2023)**

Month	Sem-I (G/GE)	No. of Lecture	Sem-III (G/GE)	No. of Lecture	Sem-V (G/GE)	No. of Lecture
Jul	Theory: CC1A: A brief idea about acids, base, buffers and indicators.	2	Theory CC1C: Anatomy and histology of the heart. Properties of cardiac muscle. Origin and propagation of cardiac impulse.	4	Theory: DSE1A: Structure and classification of nerves. Origin and propagation of nerve impulse. Velocity of impulse in different types of nerve fiber.	4
Aug	Theory: CC1A: pH- definition, significance and maintenance of pH in Blood	3	Theory: CC1C: Cardiac cycle: events. Heart sounds. Heart rate. Cardiac output: methods of determination (dye dilution and Fick principle), factors affecting, regulation.	4	Theory: DSE1A: Properties of nerve fibers: all or none law, rheobase and chronaxie, refractory period. indefatigability	3
Sept	Theory: CC1A: Colloids- Definition, classification and physiological importance	3	Theory CC1C: Structure of arteries, arterioles, capillaries. venules and veins. Pulse - arterial and venous.	3	Theory: DSE1A: Synapses: structure, different types, mechanism of synaptic transmission.	4
Oct	Theory: CC1A: Enzymes- definition and classification	2	Theory CC1C: Blood pressure and its regulation and factors controlling. Baro- and chemoreceptors. Vasomotor reflexes. Methods of measurement of blood pressure.	4	Theory: DSE1A: Motor unit. Myoneural junction: structure,	3
Nov	Theory: CC1A: Factors affecting enzyme actions, concept of co-enzymes and isoenzymes	3	Theory CC1C: Peculiarities of regional circulations coronary, pulmonary, renal, hepatic and cerebral.	4	Theory: DSE1A: Mechanism of impulse transmission. Degeneration and regeneration in nerve fibres	3
Dec	Theory: CC1A: Revision Examination	2	Theory CC1A: Revision Examination	3	Theory: DSE1A Revision Examination	3
	Sem-II (G/GE)		Sem-IV (G/GE)		Sem-VI (G/GE)	

Jan	Theory: CC1B: Structure in relation to functions of alimentary canal and digestive glands.	3	Theory: CC1D: Elementary structure of kidney and location Relationship between structure and function of kidney	3	Theory: SEC4B: Some common pollutants and their effects- carbon monoxide, lead, arsenic.	4
Feb	Theory CC1B: Composition, functions and regulation of secretion of digestive juices including bile	3	Theory: CC1D: Mechanism of formation of urine Normal and abnormal constitution of urine	4	Theory: SEC4B: Some common pollutants and their effects- carbon monoxide, lead, arsenic.	4
Mar	Theory: CC1B: Composition, functions and regulation of secretion of digestive juices including bile	3	Theory: CC1D: Physiology of urine storage and micturition	4	Theory: SEC4B: Some common pollutants and their effects- carbon monoxide, lead, arsenic.	4
Apr	Theory: CC1B: Digestion and absorption of carbohydrate, protein and lipid.	4	Theory Renal regulation of acid- base balance	3	Theory: SEC4B: Effect of noise on human body and preventive measure — —	4
May	Theory: CC1B: Movements of the stomach and small intestine	3	Theory: CC1D: Non excretory function of kidney	3	Theory: SEC4B: Effect of noise on human body and preventive measure	4
June	Theory: CC1B: Revision Examination	4	Theory: CC1D: Revision Examination	4	Theory: — — SEC4B: Revision Examination	4

Faculty Induction Programme (8th) under UGC-HRDC, Jadavpur University from 13.6.2022 to 13.7.2022

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

NUPUR PAUL

Physiology (Honours) (July 2022– June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC1: Organ systems, tissues and cells	3	Theory CC5: Introduction Blood Formed elements of blood– origin, formation, functions and fate	4	Theory DSE2A: Genesis and concept of ergonomics Importance of ergonomics in occupational health and well-being.	4
Aug	Theory: CC1: Functional morphology of cells Microscopic structure and functions of eukaryotic endoplasmic reticuli, ribosome	3	Theory CC5: Blood volume –normal values, regulation and determination by dye and radioisotope methods. Bone Marrow	4	Theory DSE2A: Classification of Physiological work load. Concept of work rest cycle. Physical work environment Thermal environment, its' effect, Heat stress indices Noise and vibration, its' effect on workers. Occupational deafness	4
Sept	Theory: CC1: Microscopic structure and functions of ribosome, golgi bodies, mitochondria	3	Theory CC5: White Blood Cells	4	Theory DSE2A: Illumination level and its' effect on visual performances, Ergonomic principles of control of Physical hazards.	3
Oct	Theory: CC1: Cell cycle	3	Theory CC5: Immune Mechanisms	4	Theory DSE2A: Static anthropometry, Application of anthropometric data in design. User interface and control display compatibility.	3

Nov	Theory: CC1: Revision	3	Theory CC5: Platelets	4	Theory DSE2A: Prevention of accidents, concept of Industrial safety. Occupational Diseases: pneumoconiosis, asbestosis, silicosis and work-related musculoskeletal disorders	4
Dec	Theory: CC1: Revision Examination	3	Theory CC5: Revision Examination	4	Theory DSE2A: Revision Examination	3
Jan	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
	Theory CC3: Excitable Tissues: Muscle Introduction Skeletal Muscle Morphology Microscopic and electron microscopic structure of skeletal muscles. The sarcotubular system. Red and white striated muscle fibers. Muscle groups: antagonists and agonists. Muscle proteins.	5	Theory CC9: . Digestion & Absorption Introduction Anatomy and histology of alimentary canal, Deglutition	3	Theory CC14: Renal Functions and Malnutrition: Introduction Anatomy of kidney. Histology of Nephron. — Function of Malpighian corpuscles and renal tubule, — —	4

Feb	Theory CC3: Electrical phenomena and Ionic Fluxes Chemical, thermal and electrical changes in skeletal muscle during contraction and relaxation. Electromyography.	4	Theory CC9: Movements of alimentary canal and their regulations	3	Theory CC14: counter-current mechanism Formation of urine – glomerular function and tubular functions. Counter-current multiplier and exchanger.	4
Mar	Theory CC3: Contractile Responses Mechanism of skeletal muscle contraction and relaxation: Excitation-contraction coupling. Dihydropyridine receptors & Ryanodine receptors.	4	Theory CC9: Absorption of Water & Electrolytes	3	Theory CC14: Formation of hypertonic urine. Water Excretion Renal regulation of osmolarity and volume of blood fluids	3
Apr	Theory CC3: Energy sources and Metabolism Mechanical components of muscle. Isometric and isotonic contractions—muscle length, tension and velocity relationships.	4	Theory CC9: Absorption of Vitamins & Minerals	3	Theory DSE4A: Acidification of the Urine & Bicarbonate Excretion Renal regulation of acid-base balance, acidification of urine	3
May	Theory CC3: Properties of Muscle in the intact Organism Properties of skeletal muscle: excitability, contractility, all or none law, summation of stimuli, summation of contractions, effects of repeated stimuli, genesis of tetanus, onset of fatigue, refractory period, tonicity, conductivity, extensibility and elasticity. Optimal load, optimal length of fibers.	5	Theory CC9: Absorption of Vitamins & Minerals	3	Theory DSE4A: Regulation of Na ⁺ & Cl ⁻ Excretion	2
June	Theory CC3: Revision Examination	3	Theory CC9: Revision Examination	3	Theory CC14: Revision Examination	3

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**DEPARTMENT OF
PHYSIOLOGY**

TEACHING PLAN

NUPUR PAUL

**Physiology (General/generic) (July 2022 – June
2023)**

Month	Sem-I (G/GE)	No. of Lecture	Sem-III (G/GE)	No. of Lecture	Sem-V (G/GE)	No. of Lecture
Jul	Theory: CCIA: Physiological importance of the following physical processes: Diffusion Osmosis	4	Theory CCIC: Anatomy and histology of the respiratory passage and organs.	3	Theory: DSE1A: Different types of muscle and their structure. Red and white muscle.	8
	Practical: CCIA: Identification of permanent slides : Bone, Lung, Trachea, Spleen, Lymph gland, Liver, Salivary gland, Pancreas, Adrenal gland, , Thyroid gland,	6	Practical: CCIC: Leishman's staining of human blood film and identification of different typrs of blood corpuscles.	4	Practical: DSE1A: Use of kymograph	4
Aug	Theory: CCIA: Physiological importance of the following physical processes: Dialysis	3	Theory: CCIC: Role of respiratory muscles in breathing. Artificial respiration.	4	Theory: DSE1A: Muscular contraction: structural, mechanical and chemical changes in skeletal muscle during contraction and relaxation.	8
	Practical: CCIA: Identification of permanent slide : Spinal cord, Cerebellum, Cerebral cortex, Kidney, Skin, Testis, Ovary, Tongue, Oesophagus, Stomach, Small intestine, Large intestine.	6	Practical: CCIC: Preparation of Haemin crystals.	4	Practical: DSE1A: Recording of pneumography	4
Sept	Theory: CCIA: Physiological importance of the following physical processes: Ultrafiltration	3	Theory CCIC: Significance of physiological and anatomical dead space. Lung volumes and capacities.	3	Theory: DSE1A: Isotonic and isometric contractions.	4
	Practical: CCIA: Examination and staining of fresh tissues (other than blood) squamous, certified, ciliated and columnar epithelium,	6	Practical: CCIC: Leishman's staining of human blood film and identification of different typrs of blood corpuscles.	4	Practical: DSE1A: Practice Use of kymograph	4
Oct	Theory: CCIA: Physiological importance of the following physical processes: Surface tension	3	Theory CCIC: Exchange of respiratory gases between lung and blood and between blood and tissues.	4	Theory: DSE1A: Properties of muscle: all or none law, beneficial effect, summation, refractory period, tetanus, fatigue.	6
	Practical: CCIA: Examination and staining of fresh tissues (other than blood) skeletal muscle, cardiac muscle by methylene blue stain.	4	Practical: CCIC: Transport of oxygen and carbon dioxide in blood. Practical: CCIC: Preparation of Haemin crystals.	4	Practical: DSE1A: Practice	2

Nov	Theory: CC1A: Physiological importance of the following physical processes: Adsorption Absorption	4	Theory CC1C: Regulation of respiration - neural and chemical. Hypoxia.	4	Theory: DSE1A: A brief idea about the muscle spindle.	3
	Practical: CC1A: Staining of adipose tissue by Sudan III or IV.	4	Practical: CC1C: Leishman's staining of human blood film and identification of different types of blood corpuscles.	4	Practical: DSE1A: Practice	2
Dec	Theory: CC1A: Revision	3	Theory CC1A: Revision	3	Theory: DSE1A Revision	3
	Practical: CC1A: Practice Examination	2	Examination		Examination	
	Sem-II (G/GE)		Sem-IV (G/GE)		Sem-VI (G/GE)	
Jan	Theory: CC1B: Depot fat. Beta oxidation of saturated fatty acid	3	Theory: CC1D: Skin and regulation of body temperature Structure and functions of skin	3	Theory: SEC4B: Environment - its physiological aspects.	4
	Practical: CC1B: Quantitative Experiments: Quantitative estimation of glucose by Benedict's method.	4	Practical: CC1D: Identification of normal constitution of urine-Chloride	4		
Feb	Theory CC1B: Ketone bodies formation and significance.	3	Theory: CC1D: Insensible and sensible perspiration	4	Theory: SEC4B: _____	4
	Practical: CC1B: Quantitative estimation of amino-nitrogen by Sorensen's formol titration method. Percentage and total quantity to be done.	4	Practical: CC1D: Identification of normal constitution of urine-Sulphate	4	Effect of extreme temperature on humans. _____	
Mar	Theory: CC1B: Deamination, Transamination. Amino acid pool	3	Theory: CC1D: Regulation of body temperature-physical and physiological process involved in it.	4	Theory: SEC4B: Hypobaric environment- effects on physiological system, acclimatization	4
	Practical: CC1B: Quantitative estimation of glucose by Benedict's method	4	Practical: CC1D: Identification of normal constitution of urine-Phosphate	4		
Apr	Theory: CC1B: fate and functions of amino acids in the body.	3	Theory CC1D: Revision Structure and functions of skin	3	Theory: SEC4B: Hyperbaric conditions and Caisson disease.	4
	Practical: CC1B: Quantitative estimation of amino-nitrogen by Sorensen's formol titration method. Percentage and total quantity to be done.	4	Practical: CC1D: Identification of normal constitution of urine-Creatinine	4		

May	Theory: CC1B: Formation of urea and its importance.	3	Theory: CC1D: Revision Insensible and sensible perspiration	3	Theory: SEC4B: Brief idea of cyanosis, dyspnea, hyperpnoea, apnea, asphyxia.	4
	Practical: CC1B: Practice	2	Practical: CC1D: Identification of normal constitution of urine-Urea	4		
June	Theory: CC1B: Revision	4	Theory: CC1D: Revision	4	Theory: SEC4B: Revision	4
	Practical: CC1B: Practice Examination	2	Practical: CC1D: Practice Examination	4	 Examination	

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

DR. DEBLINA BALL

Physiology (Honours)

(July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	<p>Theory: CC1:</p> <p>Introduction</p> <p>Body fluid components</p> <p>Organ systems, tissues and cells</p> <p>Practical:</p> <p>CC1:</p> <p>Study and identification of stained section of different mammalian tissues and organs:</p> <p>Lung, Trachea, Spinal cord, Cerebral cortex, Cerebellum,</p>	6	<p>Theory CC6:</p> <p>Cutaneous, Deep and Visceral Sensation</p> <p>Introduction</p> <p>Ascending and descending tracts: origin, courses, termination and functions.</p> <p>Lower and upper motor neurones.</p> <p>Functions of the spinal cord with special reference to functional changes following hemisection and complete section of spinal cord. Brown-Sequard syndrome, Spinal animal.</p> <p>Practical</p> <p>CC5:</p> <p>Preparation and staining of blood film with Leishman's stain.</p> <p>Identification of the blood corpuscles.</p>	8	<p>Theory CC12:</p> <p>The Thyroid Gland</p> <p>Introduction</p> <p>Anatomic Considerations</p> <p>Formation & Secretion of Thyroid Hormones</p> <p>Transport of Thyroid Hormones</p> <p>Effects of Thyroid Hormones</p> <p>Regulation of Thyroid Secretion</p> <p>Clinical Correlates</p> <p>Practical:</p> <p>CC11:</p> <p>Principles of fixation and staining,</p> <p>Staining and identification of fixed endocrine glands and nervous tissue.</p>	8
	<p>Theory: CC1:</p> <p>Transports across cell membrane: Ionpores, ion pumps, ion channels ionophores. Passive transport. Facilitated diffusion, uniport, symport, antiport. Active transport.</p> <p>Intercellular communication : Basic idea of tight junctions, gap junctions and cell adhesion molecules</p> <p>Practical: CC1:</p> <p>Study and identification of stained section of different mammalian tissues and organs: Parotid gland, Sub maxillary gland, Sublingual gland, Tongue, Oesophagus, Stomach, Duodenum, Jejunum, Ileum, Large intestine, Liver</p>	8	<p>Theory CC7:</p> <p>Pain production, perception and regulation. Referred pain. Pathways Touch Proprioception Temperature Pain Other Sensations</p> <p>Control of Posture and Movement : Introduction General Principles Corticospinal & Corticobulbar System Anatomy & Function Posture and its regulation Decerebrate rigidity, Decorticate rigidity, Postural reflexes and regulation of Posture</p> <p>Practical CC5:</p> <p>Differential count of WBC. Total count of RBC and WBC. Bleeding time and clotting time Hemoglobin estimation</p>	8	<p>Theory CC12:</p> <p>Endocrine Functions of the Pancreas & the Regulation of Carbohydrate Metabolism: Introduction Islet Cell Structure Structure, Biosynthesis, & Secretion of Insulin Effects of Insulin Mechanism of action Insulin Excess Regulation of Insulin Secretion Glucagon Other Islet Cell Hormones Hypoglycemia & Diabetes Mellitus in Humans</p> <p>Practical: CC11:</p> <p>Practice</p> <p>Staining and Identification of Histological sections provided</p>	6

Sept	<p>Theory: CC1:</p> <p>Capillary Wall Homeostasis</p> <p>Practical: CC1: Study and identification of stained section of different mammalian tissues and organs:</p> <p>Kidney, Ureter, Pancreas, Adrenal gland, Thyroid gland, Testis, Ovary</p>	<p>4</p> <p>4</p>	<p>Theory: CC7:</p> <p>Basal Ganglia Cerebellum Movement disorders</p> <p>Neural Basis of Instinctual Behaviour and Emotions :</p> <p>a. Introduction b. Anatomic Considerations c. Limbic Functions</p> <p>Limbic system: structure, connections and functions. Physiology of emotion.</p> <p>Practical CC5:</p> <p>Preparation of haemin crystals Preparation and staining of bone marrow. Measurement of diameter of megakaryocyte.</p>	<p>8</p> <p>6</p>	<p>Theory CC12:</p> <p>The Pituitary Gland: Introduction Morphology Posterior pituitary hormones Growth Hormone Physiology of Growth Pituitary Insufficiency Pituitary Hyperfunction in Humans</p> <p>Practical: CC11:</p> <p>Practice</p> <p>Staining and Identification of Histological sections provided</p>	<p>8</p> <p>4</p>
Oct	<p>Theory: CC1: Revision</p> <p>Practical: CC1:</p> <p>Practice</p> <p>Study and identification of stained section of different mammalian tissues and organs</p>	<p>6</p> <p>4</p>	<p>Theory CC7:</p> <p>d. Sexual Behavior e. Fear & Rage f. Motivation</p> <p>Higher Functions of the Nervous System</p> <p>a. Introduction b. Methods c. Learning & Memory Higher functions of nervous system: conditioning, learning, short-term and long- term memory.</p> <p>Practical CC5:</p> <p>10. Reticulocyte staining 11. . Blood group determination.</p>	<p>8</p> <p>4</p>	<p>Theory CC12:</p> <p>Revision</p> <p>Practical: CC11:</p> <p>Class Test Staining and Identification of Histological sections provided</p>	<p>4</p> <p>4</p>
Nov	<p>Theory: CC2:</p> <p>Question Answer discussion and Assessment</p> <p>Practical:</p> <p>Class Test Slide Identification</p>	<p>5</p> <p>2</p>	<p>Theory CC7:</p> <p>Speech and Aphasia. Asymmetrical organization of certain cognitive functions-split brain d. Functions of the Neocortex</p> <p>Electrophysiology of brain: spontaneous electrical activity of brain, EEG and ECoG, evoked potential, DC potential. Isolated cortex. e. Disorders relating learning and memory</p> <p>Practical CC5:</p> <p>Practice Preparation and staining of blood film with Leishman's stain. Identification of the blood corpuscles.</p>	<p>8</p> <p>4</p>	<p>Theory CC12:</p> <p>Question Answer discussion and Assessment</p> <p>Practical:</p> <p>Class test on Practical</p>	<p>4</p> <p>2</p>

Dec	Theory: CC1: Revision Practical Practice (if required) Examination	4 4	Theory CC7: Revision and Question Answer discussion Practical Practice (if required) Examination	4 4	Theory CC12: Revision Practical Practice (if required) Examination	4 4
Month	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
Jan	Theory CC3: Excitable Tissues: Nerve Introduction Nerve cells Structure, classification and functions of neurons, Cytoskeletal elements and axoplasmic flow. Excitation and Conduction Practical: CC3: Isolation and staining of nerve fibers with node (s) of Ranvier (AgNO ₃) and muscle fiber (H and E)	8 4	Theory CC9: Regulation of Gastrointestinal Function Introduction Digestive glands – histological structures of salivary glands, pancreas and liver. Practical: CC10: Measurement of peak expiratory flow rate Measurement of oxygen saturation by pulse oxymeter before and after exercise	6 4	Theory CC13: Introduction Primary and accessory sex organs and secondary sex characters, Physiology of puberty. Sex Differentiation & Development a. Chromosomal Sex Embryology of the Human Reproductive System Aberrant Sexual Differentiation Puberty Precocious & Delayed Puberty Menopause Pituitary Gonadotropins & Prolactin Practical: CC13: Study of estrous cycle	8 6
Feb	Theory CC3: . Measurement of electrical events Propagation of nerve impulse in different types of nerve fibers. Ionic basis of excitation and conduction The resting membrane potential, action potential, electrotonic potentials, current of injury and compound action potential. Practical: CC3: Practice Isolation and staining of nerve fibers with node (s) of Ranvier (AgNO ₃) and muscle fiber (H and E)	6 4	Theory CC9: General Considerations Composition, functions and regulation of the secretion of salivary, gastric, pancreatic and intestinal juices and bile. Synthesis of Bile acids. Enterohepatic circulation, Feces and defecation. GALT, MALT. Basic concepts of Peptic Ulcer, Jaundice and Gallstones Cholelithiasis. Practical: CC10: Measurement of forced expiratory volume (FEV) in first second	8 2	Theory CC13: The male reproductive System Structure Histology of testis Gametogenesis & Ejaculation Endocrine Function of the Testes Control of Testicular Function Abnormalities of Testicular Function Practical: CC13: Staining and identification of kidney and ureter	10 4

<p>Mar</p> <p>Theory CC3:</p> <p>Properties of mixed nerves Properties of nerve fibers: excitability, conductivity, all or none law, accommodation, adaptation, summation, refractory period, Indefatigability, Chronaxie & rheobase and utilization time. Injury to peripheral nerves—degeneration and regeneration in nerve fiber, changes in the nerve cell body, trans neuronal degeneration, changes in receptor and motor end-plates, denervation hypersensitivity. Thermal changes of nerve during activity</p> <p>Practical: CC4:</p> <p>Qualitative tests for the identification of physiologically important substances:</p> <p>Urea, Glycerol, Bile salts</p>	<p>6</p> <p>4</p>	<p>Theory CC9:</p> <p>Gastrointestinal hormones</p> <p>Mouth & Esophagus</p> <p>Stomach</p> <p>Exocrine Portion of the Pancreas</p> <p>Liver & Biliary System</p> <p>Practical:</p> <p>CC10:</p> <p>Practice</p>	<p>8</p> <p>4</p>	<p>Theory CC13:</p> <p>6. Pregnancy Fertilization, Preliminary ideas of implantation. Structure and functions of placenta. Maintenance of pregnancy and the bodily changes during pregnancy. Pregnancy tests. Parturition.</p> <p>Practical: CC13:</p> <p>Pregnancy test from human urine by kit method</p>	<p>8</p> <p>2</p>
<p>Apr</p> <p>Theory CC3:</p> <p>Nerve fibre types and function</p> <p>Neurotrophins Nerve growth factors and Neurotrophins</p> <p>Glia Structure, classification and functions of neuroglia cells</p> <p>Practical: CC4:</p> <p>Prctice Qualitative tests for the identification of Unknown Sample</p>	<p>4</p> <p>4</p>	<p>Theory CC9:</p> <p>Small Intestine</p> <p>Colon</p> <p>Practical:</p> <p>CC10:</p> <p>Practice (if required)</p>	<p>4</p> <p>4</p>	<p>Theory CC13:</p> <p>Lactation Mammogenesis, Galactopoiesis: Hormonalcontrol</p> <p>Practical: CC13:</p> <p>Practice</p>	<p>4</p> <p>4</p>
<p>May</p> <p>Theory CC3:</p> <p>Revision, Question Answer discussion and Assessment</p> <p>Practical:</p> <p>CC4:</p> <p>Class Test on Identification of given Unknown Sample</p>	<p>5</p> <p>2</p>	<p>Theory CC9:</p> <p>Revision, Question Answer discussion and Assessment</p> <p>Practical:</p> <p>Class Test</p>	<p>5</p> <p>2</p>	<p>Theory CC13:</p> <p>Revision, Question Answer discussion and Assessment</p> <p>Practical: CC13:</p> <p>Class Test</p>	<p>5</p> <p>2</p>
<p>June</p> <p>Theory CC3:</p> <p>Revision</p> <p>Practical Practice (if required)</p> <p>Examination</p>	<p>2</p> <p>2</p>	<p>Theory CC9:</p> <p>Revision</p> <p>Practical Practice (if required)</p> <p>Examination</p>	<p>2</p> <p>2</p>	<p>Theory CC13:</p> <p>Revision</p> <p>Practical Practice (if required)</p> <p>Examination</p>	<p>2</p> <p>2</p>

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Physiology (Generic/ General)

(July 2022 – June 2023)

Month	Sem-V (GE/Gen)	No. of Lecture
July	Theory DSE 1A: Nervous System A brief outline of organization and basic functions (sensory, motor and association) of the nervous system, central and peripheral nervous system. (emphasis on the structure of spinal cord and brain stem). Ascending tracts carrying touch, kinaesthetic, temperature and pain sensations. Descending tracts: pyramidal tract and brief outline of the extra-pyramidal tracts. Pain. Reflex action - definition, reflex arc, classification, properties. Functions of the spinal cord. Outline of functions of brain stem.	12
Aug	Theory DSE 1A: A brief idea of the structure, connections and functions of cerebellum. Different nuclei and functions of thalamus and hypothalamus. Cerebral cortex: histological structure and localization of functions. CSF : composition, formation, circulation and functions. A brief description of the organization of the autonomic (sympathetic and parasympathetic) nervous system. Functions of sympathetic and parasympathetic nervous system. A brief idea of speech, aphasia, conditioning, learning and memory.	12
Sep	Theory SEC 3A: Virus - DNA virus and RNA virus. Bacteriophage. Bacteria-structure and morphological classification	8
Oct	Theory SEC 3A: Gram positive and Gram negative and acid-fast bacteria. Pathogenic and non-pathogenic bacteria - definition with a few examples. Sterilization and Pasteurization	8
Nov	Theory Revision, Question Answer discussion and Assessment	6
Dec	Theory Examination	4

Month	Sem-II (GE/Gen)	No of Lecture	Sem-VI (GE/Gen)	No of Lecture
Jan	Theory CC1B Metabolism: Pathophysiological significance of the following blood constituents: glucose, urea, creatinine	6	Theory DSE1B Sensory Physiology: Classification of general and special senses and their receptors. Receptors as biological transducer. Olfaction and Gustation: Structure of sensory organ, neural pathway of olfactory and gustatory sensation. Physiology of olfactory and gustatory sensation. Olfactory and gustatory adaptation. After-taste.	8

Feb	Theory CC1B Metabolism: Pathophysiological significance of the following blood constituents: uric acid, cholesterol, bilirubin, SGPT and SGOT	6	Theory DSE1B Physiology of olfactory and gustatory sensation. Olfactory and gustatory adaptation. After-taste. Audition: Structure of ear, auditory pathway, mechanism of hearing.	8
Mar	Theory CC1B Metabolism: Pathophysiological significance of the following blood constituents: alkaline and acid phosphatases and ketone bodies	6	Theory DSE1B Vision: Structure of the eye. Histology of retina. Visual pathway. Light reflex. Chemical changes in retina on exposure to light. Accommodation - mechanism and pathway. Errors of refraction. Positive and negative after-image. Light and dark adaptation. Elementary idea of colour vision and colour blindness	8
Apr	Theory CC1B Revision and Question Answer discussion	6	Theory DSE1B Revision and Question Answer discussion	6
May	Theory CC1B Assessment	2	Theory DSE1B Assessment	2
Jun	Examination	2	Examination	2

COURSES COMPLETED:

1. Faculty Induction Programme (8th) under UGC-HRDC, Jadavpur University from 13.6.2022 to 13.7.2022
2. Rresher Course on 'Emerging trends in Natural and Biological Sciences' (RC-18) under UGC-HRDC, University of North Bengal from 09.9.2022 to 22.9.2022

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DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

HAIMANTI CHATTERJEE


Physiology (Honours) (July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
Jul	Theory: CC1: Functional morphology of cells Plasma membrane and subcellular membranes. Microscopic structure and functions of eukaryotic endoplasmic reticulum, ribosome, golgi bodies.	4	Theory CC7: Reflexes: a. Introduction b. Monosynaptic Reflexes: The Stretch Reflex c. Polysynaptic Reflexes: The Withdrawal Reflex d. General Properties of Reflexes	4	Theory CC12: The Adrenal Medulla & Adrenal Cortex a. Introduction b. Adrenal Morphology c. Adrenal Medulla I. Structure & Function of Medullary Hormones II. Regulation of Adrenal Medullary Secretion d. Adrenal Cortex I. Structure & Biosynthesis of Adrenocortical Hormones II. Effects of Adrenal Androgens & Estrogens III. Physiologic Effects of Glucocorticoids IV. Pharmacologic & Pathologic Effects of Glucocorticoids V. Regulation of Glucocorticoid Secretion VI. Effects of Mineralocorticoids	3
			Arousal Mechanism, Sleep and the Electrical Activity of the Brain a. Introduction b. The Reticular Formation & the Reticular Activating System Reticular formation: organization, connection and functions of ascending and descending reticular formation. Physiological basis of sleep and wakefulness		4 DSE1A: BIOLOGICAL STATISTICS Scope of statistics – Principles of statistical analysis of biological data. Basic concepts – variable, parameter, statistics. Sampling. Presentation of data-frequency distribution, frequency polygon, histogram, bar diagram and pie diagram.	

<p>Aug</p>	<p>Theory: CC1: Microscopic structure and function of mitochondria, lysosomes, peroxisomes.</p>	<p>4</p>	<p>Theory CC7:</p> <p>The Thalamus & the Cerebral Cortex</p> <p>Evoked Cortical Potentials</p> <p>The Electroencephalogram Physiological Basis of the EEG, Consciousness, & Sleep Interpretation of abnormal EEG pattern</p>	<p>Theory CC12: The Adrenal Medulla & Adrenal Cortex</p> <p>4</p> <p>VII. Regulation of Aldosterone Secretion VIII. Summary of the effects of Adrenocortical Hyper & Hypofunction in Humans</p> <p>6</p> <p>Hormonal Control of Calcium Metabolism & the Physiology of Bone</p> <p>a. Introduction b. Calcium & Phosphate Metabolism c. Bone Physiology d. Vitamin D & the Hydroxycholecalciferols</p> <p>e. The Parathyroid Glands f. Calcitonin</p> <p>DSE1A: BIOLOGICAL STATISTICS</p> <p>Parameters</p> <p>Different classes of statistics- mean, median, mode, mean deviation, variance, standard deviation, standard error of mean.</p>	<p>3</p> <p>6</p> <p>2</p> <p>4</p>
<p>Sept</p>	<p>Theory: CC1: Cytoskeletal elements and centrosomes.</p>	<p>4</p>	<p>Theory CC7:</p> <p>Introduction Anatomic Organization of Autonomic Outflow Chemical Transmission at autonomic Junctions</p> <p>Responses of Effector Organs to Autonomic Nerve Impulses Cholinergic and Adrenergic Discharge</p>	<p>Theory CC12: g. Effects of Other Hormones & Humoral Agents on Calcium Metabolism</p> <p>4</p> <p>Endocrine Functions of the Kidneys, Heart, & Pineal Gland</p> <p>a. Introduction b. The Renin-Angiotensin System c. Erythropoietin</p> <p>d. The Endocrine Function of the Heart: Atrial Natriuretic Peptide</p> <p>e. Pineal Gland f. Human chronobiology, biological rhythms; basic concepts and implications</p> <p>DSE1A: BIOLOGICAL STATISTICS</p> <p>Standard score. Degrees of freedom</p>	<p>2</p> <p>5</p> <p>2</p> <p>2</p> <p>3</p> <p>2</p>
<p>Oct</p>	<p>Theory: CC1: Cell cycle</p>	<p>4</p>	<p>Theory CC7: Central Regulation of Visceral Function</p> <p>a. Introduction b. Medulla Oblongata c. Hypothalamus i. Anatomic Considerations ii. Hypothalamic Function iii. Relation to Autonomic Function iv. Relation to Sleep v. Relation to Cyclic Phenomena vi. Hunger vii. Thirst viii. Control of Posterior Pituitary Secretion ix. Control of Anterior pituitary Secretion x. Temperature Regulation, fever</p>	<p>Theory DSE1A: Probability.</p> <p>5</p> <p>Normal distribution. Student's t-distribution</p> <p>Practice</p> <p>Testing of hypothesis - Null hypothesis, errors of inference</p> <p>Practice</p>	<p>8</p> <p>2</p> <p>4</p> <p>2</p>

Nov	Theory: CC1: Cell division a. Mitosis b. Meiosis	4	Theory CC7: Neural Basis of Instinctual Behaviour and Emotions a. Introduction b. Anatomic Considerations c. Limbic Functions Limbic system: structure, connections and functions. Physiology of emotion. d. Sexual Behavior e. Fear & Rage f. Motivation Revision Class test	3 4	Theory DSE1A: levels of significance, students' t-test and z score for significance of difference. Practice Distribution-free test - Chi-square test Practice	6 4 4 2
	Theory: CC1: Aging Revision Examination		4		Theory CC7: Revision Class test Examination	
Dec	Sem-II (H) Theory CC4: Carbohydrates a. Classification of Carbohydrates Definition and classification of Carbohydrates b. Structure of Carbohydrates	4	Sem-IV (H) Theory CC8: Introduction Energy metabolism Carbohydrate metabolism Glycolysis, R-L cycle Detail, TCA cycle. Gluconeogenesis Cori cycle, Glucose Alanine cycle. Anaplerotic reactions and Amphibolic nature of TCA cycle. Pentose Phosphate Pathway.	2 14 2	Sem-VI (H) Theory CC13 The Female Reproductive system Histology of ovary, Oogenesis, folliculogenesis and ovulation. The Menstrual Cycle Formation, functions of corpus luteum and leuteolysis, — —	6 2

Feb	Theory CC4: Cyclic structures- Pyranose and furanose forms, structure of disaccharides and polysaccharides.	4	Theory CC8: Glycogenesis and Glycogenolysis.	4	Theory CC13: Menstrual cycle and its regulation b. Ovarian Hormones c. Control of Ovarian Function d. Abnormalities of Ovarian Function	10
			Protein metabolism Amino acids, Amino acid pool. Deamination, transamination, amination and decarboxylation. Synthesis of Urea and Nitric oxide. Basic idea of glucogenic and ketogenic amino acids.		4 2	
	Theory CC4: c. Properties of Carbohydrates Stereoisomerism, optical isomerism, optical activity, epimerism, anomerism, mutarotation and its mechanism.	4	Theory CC8: Metabolism of glycine, sulfur-containing amino acids, tryptophan and phenylalanine Fat and cholesterol metabolism β -oxidation and biosynthesis of saturated and monounsaturated fatty acids. Carnitine shuttle.	6 7	Theory CC13: Abnormalities in menstrual cycle. Onset of menopause and post-menopausal changes, Postmenopausal syndromes.	2 2
Apr	Theory CC4: Chemical reactions of monosaccharides (Glucose & Fructose) – Reactions with concentrated mineral acids, alkali, phenyl hydrazine and their biochemical importance	4	Theory CC8: Metabolism of Triglycerides.	2	Theory DSE3B: Genes - definition. DNA-structure, DNA replication,	5
			Biosynthesis of Lecithin, Cephalin and Cholesterol. Metabolism of Adipose Tissue. Role of lipoproteins in transport and storage of lipids.	4	Transcription of RNA in prokaryotes,	2
			Formation of Reactive Oxygen Species (ROs) and the role of Catalase, Superoxide Dismutase, Glutathione Peroxidase and Glutathione Reductase in combating oxidative stress– role of vitamins.	4	Genetic code – properties and wobble hypothesis,	2
May	Theory CC4: d. Function of Carbohydrates Derivatives of monosaccharides --Amino sugars, deoxysugars, sugar alcohols, sugar acids, sugar esters, their biochemical and physiological importance.	4	Theory CC8: Integration of carbohydrate, fat and protein metabolism	2	Theory DSE3B: translation in prokaryotes, regulation of gene expression – operon concept: lac operon, gene mutation	8
			Biological oxidation– Redox Potential. Mitochondrial Electron Transport Chain. Oxidative Phosphorylation–Inhibitors and uncouplers.	6	DNA repairing processes. Basic idea of Recombinant DNA technology and its applications, Polymerase chain reaction (PCR) - basic concepts.	8
			Practice	4		
June	Theory CC4: Revision	2	Theory CC8: Revision	4	Theory CC13: Revision	4
	Class test	2	Practice	4	Class test	2
	Examination		Examination		Examination	


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 Suri Vidyasagar College
 Suri, Birbhum

DEPARTMENT OF PHYSIOLOGY

TEACHING PLAN

HAIMANTI CHATTERJEE

Physiology (General) (July 2022 – June 2023)

Month	Sem-I (G)	No. of Lecture	Sem-III (G)	No. of Lecture	Sem-V (G)	No. of Lecture
Jul	Theory: CC 1A: Units of Human System Structure and functions of plasma membrane, nucleus and different cell organelles.	4	Theory CC 1C: Blood and Body Fluids Blood: composition and functions. Plasma proteins: origin and functions, Plasmapheresis. Bone marrow. Formed elements of blood-their morphology and functions. Practical: Haematological experiments II: DC of WBC, estimation of haemoglobin	4 2	Theory SEC III: IMMUNOLOGY Elementary knowledge of innate and acquired immunity. Practical: Field Study Population study of physiological parameters such as height, weight, heart-rate, blood pressure	4 2
Aug	Theory: CC 1A: Endoplasmic reticulum, Golgi bodies, Mitochondria, Lysosome and Peroxisome.	4	Theory CC 1C: Erythropoiesis and leucopoiesis. Haemoglobin: different types of compounds and derivatives. Functions and estimation of haemoglobin. Abnormal haemoglobins-thalassaemia and sickle-cell anaemia. Practical CC 1C: Blood group determination, Bleeding time and coagulation time.	4 2	Theory SEC III: Humoral and cell mediated immunity Practical: Field Study: Population study of physiological parameters such as height, weight, heart-rate, blood pressure	4 2
Sept	Theory: CC 1A: Structure, function and classification of Epithelial, Connective, Muscular and Nervous tissues.	4	Theory CC 1C: Blood volume and its determination (dye method and Radioisotope method) and regulation. Coagulation of blood: mechanism, factors affecting, procoagulants, anticoagulants, and disorders of coagulation.	4 2	Theory SEC III: Vaccination-principles and importance of immunization. A brief idea of antibiotics Practical: Field Study Population study of physiological parameters such as height, weight, heart-rate, blood pressure respiratory rate, PFI, TC of RBC, estimation of haemoglobin, DC of WBC	4 2
oct	Theory: CC 1A: Biochemistry of Biomolecules. a. Carbohydrates: Definition and classification. b. Monosaccharide-Classification, structure. Chemical reactions of monosaccharide (Glucose & Fructose)- Reactions with concentrated mineral acids, alkali, Phenyl hydrazine and their biochemical importance. c. Disaccharides-Maltose, Lactose and Sucrose: Structure, occurrence and physiological importance	4	Theory CC 1C: Lymph and tissue fluids: composition, formation, and functions. Practical CC 1C: Practice	4 2	Theory .SEC III: Basic principle of immunological detection of Pregnancy.	2

Nov	Theory: CC 1A: Polysaccharides–Starch, Glycogen, Dextrin, Cellulose	4	Theory CC 1C: Blood groups-ABO and Rh. Blood transfusion-precaution and hazards. Immunological basis of identification of ABO and Rh blood groups Practical CC 1C: Practice	4 2	Theory SEC III: Revision. Class test	4
Dec	Theory: CC1A: Revision Class test Examination	2 2	Theory CC 1C: Anaemia-types (definition and causes). Leucocytosis, leucopenia and leukaemia. Purpura Revision Practical Practice Examination	4 2	Theory SEC III Revision Practical Practice Examination	4 2
Jan	Sem-II (G) Theory CC 1B: Metabolism Glycolysis, TCA cycle, Glycogenesis, Glycogenolysis, Gluconeogenesis Practical: 1. Qualitative Experiments: Qualitative tests for identification of starch, dextrin, lactose, sucrose, glucose, fructose, albumin, gelatin, peptone, lactic acid	4 2	Sem-IV (G) Theory CC 1D: Endocrine System Anatomy of endocrine system. Hormones - classification. Basic concept of regulation of hormone actions. Positive and negative Feedback mechanism. Elementary idea of hormone action. Hypothalamus: Basic concept of neurohormone. Hypothalamo hypophyseal tract and portal system. Practical: CC 1D: Identification of abnormal constituents of urine - glucose, protein, acetone blood and bile salts.	4 2	Sem-VI (G) Theory DSE 1B: Reproductive Physiology Primary and accessory sex organs and secondary sex characters. Testis: histology, spermatogenesis, testicular hormones and their functions. — — Practical: Human Experiments II Pneumographic recording of respiratory movements along with The effect of drinking of water, talking, forced hyperventilation and breath holding.	4 2

Feb	<p>Theory CC 1B: Depot fat. Beta oxidation of saturated fatty acid</p> <p>Ketone bodies, formation and significance.</p>	4	<p>Theory CC 1D: Pituitary: Histological structure, hormones, functions. Hypo and Hyperactive states of pituitary gland.</p> <p>Practical: CC 1D: Practice</p>	<p>4</p> <p>Theory DSE 1B Ovary : histology, oogenesis, ovarian hormones and their functions.</p> <p>Practical: Human Experiments II</p> <p>2 Measurement of some common anthropometric parameters: stature, weight, eye height, shoulder height, elbow height. Sitting height, elbow rest height(sitting), knee height(sitting), arm reach from wall,</p>	4
Mar	<p>Theory CC 1B: Deamination, Transamination. Amino acid pool-fate and functions of amino acids in the body.</p> <p>Formation of urea and its importance.</p>	4	<p>Theory CC 1D: Thyroid: Histological structure. Functions of thyroid hormones & thyrocalcitonin.</p> <p>Hypo and hyper-active states of thyroid</p>	<p>4</p> <p>Theory DSE 1B: Spermatogenesis & Oogenesis– processes and Factors controlling.</p> <p>Practical: Human Experiments II</p> <p>2 Measurement of some common anthropometric parameters: Mid -arm circumference, waist circumference, hip circumference, neck circumference, head circumference, chest circumference.</p>	4
Apr	<p>Theory CC 1B: Brief idea of HMP shunt and its significance</p> <p>Lipoproteins -types and functions</p>	4	<p>Theory CC 1D: Parathyroid: Histological structure, functions of parathyroid hormone. Tetany. Adrenal Cortex: Histological structure and functions of different hormones. Hypo and hyper-active states of adrenal cortex. Adrenal Medulla: Histological structure and functions of medullary hormones. The relation of adrenal medulla with the sympathetic Nervous system</p>	<p>6</p> <p>Theory DSE 1B: Oestrus and menstrual cycles and their hormonal control. Fertilization, implantation and structure and functions of placenta.</p>	4
May	<p>Theory CC 1B: Purine and pyrimidine bases, nucleosides, nucleotides and polynucleotides</p>	4	<p>Theory CC 1D: Pancreas: Histology of islets of Langerhans. Origin and functions of pancreatic hormones. Diabetes mellitus. Brief Idea of the origin and functions of renin-angiotensin, prostaglandins. Erythropoietin and melatonin. Elementary idea of gastrointestinal hormone.</p>	<p>6</p> <p>Theory DSE 1B: Maintenance of pregnancy –role of hormones. Development of mammary gland and lactation-role of Hormones</p>	4
June	<p>Theory CC 1B: Revision</p>	2	<p>Theory CC 1D: Revision</p>	<p>4</p> <p>Theory DSE 1B: Revision</p>	4

	Practical Practice Examination	2	Practical Practice Examination	2	Practical Practice Examination	2
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DEPARTMENT OF POLITICAL SCIENCE

TEACHING PLAN OF MADHABI LAHA

Political Science (Honours)(July 2022 – June 2023)

Month	Sem-I (H)	No. of Lecture	Sem-III (H)	No. of Lecture	Sem-V (H)	No. of Lecture
July	CC-2; Different Approaches:	5	CC-7; 73rd Amendment Act and its implications for rural local-self Government in India.	5	DSE-2 Transnational economic actors	5
August	CC-2; Traditional Approach	5	SEC-1; Powers and functions of people's representatives at different tiers of governance	5	DSE-2; Role of MNC s	5
September	CC-2; Traditional Approach	5	SEC-1: Members of Parliament; State Legislative Assemblies	5	DSE-2; Role of MNC s	5
October	CC-2; Behavioural Approach	5	CC-7: 74th Amendment Act and its implications for urban local-self Government in India	5	DSE-2; Global Poverty	5
November	CC-2; Post-Behavioural Approach	5	SEC-1; Supporting the legislative process	5	DSE-2; Global Poverty	5
December	CC-2; Marxist Approach	5	Sec-1: Law-making procedure, Role of Committees	5	DSE-2; Sustainable Development Goal	5
January	Sem-II (H)		Sem-IV (H)		Sem-VI (H)	
	CC-3; Main features of medieval Muslim Political Thought	5	CC-8: Nature and Scope of International Relations;	5	DSE-4 Globalization:Meaning and debates	5
February	CC-3: Main features of medieval Muslim Political Thought.	5	CC-8; Idealist Approach in IR	5	DSE-4 Globalization:Meaning and debates	5
March	CC-4; Party System in India	5	CC-8; Realist and Neo-Realist approaches in IR	5	DSE-4 Globalization:Meaning and debates	5
April	CC-4; Features of Indian Party System	5	CC-8; Foreign Policy and Diplomacy: Concepts	5	DSE-4; Impact of Globalization on Indian Economy	5
May	CC-4; Trends of Indian Party System	5	CC-8; Foreign Policy and Diplomacy: Determinants and Objectives	5	DSE-4; Impact of Globalization on Indian Economy	5
June	CC-4; Coalition Governments in India	5	CC-8; Indian Foreign Policy: Basic Tenets	5	DSE-4; Impact of Globalization on Indian Economy	5

**SURI VIDYASAAR COLLEE
DEPARTMENT OF POLITICAL SCIENCE**

**TEACHING PLAN OF MAINAK MANDAL
Political Science (Honours) (July 2022 – June 2023)**

	SEMESTER-I	No. of Lecture	SEMESTER-III	No. of Lecture	SEMESTER-V	No. of Lecture
July- December, 2020	CC1: Western Political Thought	23	CC5: Comparative Politics	27	CC12: Elementary Research Methods in Political Science	48
		6		14		
	Chapter-2: Medieval Political Thought- main features	17	Chapter- 6: Legislatures in UK, USA: Composition and Functions	1	Chapter-3: Vocabulary of research: Concept, Variable, Proposition, Hypothesis, Theory	14
	Chapter -8: Marx and Engels: Dialectical and Historical Materialism; Lenin: Imperialism	2	Introduction to UK & USA	1		
		5	Composition of Legislature of UK	1	Introduction to Research Methodology	2
		5	Composition of Legislature of USA	1		
	Marx and Engels: An introduction	5	Functions and utility of Lord Sabha	1	Concept	2
	Dialectical Materialism	10			Variable	2
			Functions of Common Sabha	2	Proposition	2
	Historical Materialism				Hypothesis	4

July- December, 2020	Lenin: Imperialism	10	Functions of Senete	1	Theory	2
	CC-2: Political Theory	1	Functions of House of Representative	4	Chapter -4: Components of Research Design: Problematation, Hypothesis formulation, Data collection, and testing of hypothesis	16
	Chapter-6 Ideology: Meaning and Variants (a) Anarchism (b) Liberalism and Neo- Liberalism	2	Different Committees of Both Houses of Both Countries	2		
	© Fascism; The End of Ideology Debate - Daniel Bell and Francis Fukuyama (total class -10)	3	Compare between Lord Sabha and Senete	12	Research Design	2
	Ideology: Meaning and Variants	3	Judiciary in UK	3	Components of Research Design	2
	Anarchism	3	Judiciary in USA	3	Problematation	2
	Liberalism and Neo- Liberalism	3	Judiciary in France	3	Hypothesis formulation	2
	Fascism	3	Compare judiciary system between UK, USA, France	3	Data collection, and testing of hypothesis	2
	The End of				Chapter - 5:	8

	Ideology Debate - Daniel Bell and Francis Fukuyama		<p>CC- 6: Public Administration</p> <p>Chapter - 6: Major approaches in Public Administration- New Public Administration, New Public Management, New Public Service Approach, Feminist Perspective</p> <p>Introduction to Public Administration</p> <p>New Public Administration</p> <p>New Public Management</p> <p>Public Service Approach</p> <p>Feminist Perspective</p>	<p>13</p> <p>13</p> <p>2</p> <p>2</p> <p>3</p> <p>3</p>	<p>Major methods and techniques of Data Collection: Survey method, Interview and Case Study</p> <p>Survey method</p> <p>Interview</p> <p>Case Study</p> <p>CC-DSE-1: Select Comparative Political Thought</p> <p>Chapter-1(b): Tilak and Gandhi on Swaraj</p> <p>Tilak on Swaraj</p> <p>Gandhi on Swaraj</p> <p>Chapter -2(d) Nehru</p>	<p>18</p> <p>6</p> <p>6</p> <p>6</p> <p>12</p> <p>6</p> <p>3</p> <p>3</p> <p>6</p>
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				3	Jayprakash Narayan on Democracy	
					Nehru on Democracy	3
					Jayprakash Narayan on Democracy	3

	SEMESTER-II	No. of Lecture	SEMESTER-IV	No. of Lecture	SEMESTER-VI	No. of Lecture
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January- June, 2021	CC-3: Indian Political Thought	22	CC-8: International Relations	25	CC13: Indian Foreign Policy	20
	Chapter-4: Bankim, Vivekananda: Nationalism	12	Chapter -3: Balance of Power and Collective Security	9	Chapter - 3: India and the major powers- USA, China, Russia	20
	Bankim: Nationalism	6	Balance of Power	3	India's Foreign Policy towards USA	5
	Vivekananda: Nationalism	6	Collective Security	3	India's Foreign Policy towards China	5
	Chapter -5: Gandhi: Satyagraha, Trusteeship.	4	Difference between Balance of Power and Collective Security	9	India's Foreign Policy towards Russia	5
	Gandhi: Satyagraha,	6	Chapter -4: Origin and End of the Cold War	1	Chapter - 4: Recent trends in India's Foreign Policy	2
	Gandhi: Trusteeship.	4	What is cold war?	3	Base of Indian Foreign Policy	3
		16	Origin of the Cold War	2	Recent trends in India's Foreign Policy	15
	CC-4: Indian Government and Politics	16	End of the Cold War	3		5
				1		5

	<p>Chapter - 4: Union Legislature: Lok Sabha and Rajya Sabha- Organization, Functions and Law-making Procedure; the Speaker; Procedure of Constitutional Amendment</p> <p>1</p> <p>3</p> <p>Introduction to Parliamentary system</p> <p>4</p> <p>Composition of Union Legislature, Composition of Lok Sabha and Rajya Sabha</p> <p>2</p> <p>3</p> <p>Functions of Lok Sabha and Rajya Sabha</p> <p>3</p> <p>Comparison between Lok Sabha and Rajya Sabha</p> <p>1</p> <p>2</p> <p>Law-making Procedure</p> <p>2</p>	<p>1</p> <p>3</p> <p>4</p> <p>2</p> <p>3</p> <p>1</p> <p>2</p>	<p>Significance of Cold War and New World Order</p> <p>8</p> <p>3</p> <p>Chapter - 6: Disarmament: NPT, CTBT, NSG</p> <p>5</p> <p>Definition of Disarmament</p> <p>9</p> <p>NPT</p> <p>CTBT</p> <p>3</p> <p>NSG</p> <p>CC- 9: Sociology and Politics</p> <p>Chapter - 5: Feminism: Meaning, Significance and Different Schools</p> <p>3</p> <p>Feminism: Meaning,</p>	<p>8</p> <p>3</p> <p>5</p> <p>9</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p>	<p>CC-14: Contemporary Issues in India</p> <p>Chapter - 5: Rights of Persons with Disabilities (PWDs) in India</p> <p>Chapter -6: Social Backwardness and Protective Discrimination</p> <p>Chapter-7: Disaster Risk Reduction and Development Planning</p> <p>DSE-4: Political Economy of International Relations</p> <p>Chapter-1: Major approaches to the study of Political Economy of IR-</p>	<p>5</p> <p>6</p> <p>6</p>
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<p>January- June, 2021</p>	<p>the Speaker Procedure of Constitutional Amendment</p>		<p>Significance Feminism: Different Schools SEC- 2: Public Opinion and Survey Research Chapter -3: Interview- Definition and Types Chapter -4: Questionnaire: Different Types Chapter -5: Prediction in Polling Research</p>		<p>Robert Gilpin</p>	
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