

SURI VIDYASAGAR COLLEGE (GOVT. SPONSORED)



SURI, BIRBHUM, 731101.
ACCREDITED BY NAAC-B** (2016)
Affiliated to the University of Burdwan

B. A., B. Sc. & B. Com. (Hons. & General) & M. Sc. in Zoology

Academic Calender-2023-24

Part A: List of Holidays

<u>Occasion/Event</u>	<u>Date</u>	<u>Day</u>	<u>No. of Holidays</u>	<u>No. of Working Days (Month wise)</u>
Birthday of Dr. Bidhan Chandra Roy	1 st July, 2023	Saturday	Nil	July-24 days (Sundays-05)
Vidyasagar Death Anniversary and Muharram*	29 th July, 2023	Saturday	01	
Independence Day	15 th August, 2023	Tuesday	01	August-25 days (Sundays-04)
Rakhi Bandhan	31 st August, 2023	Thursday	01	
Janmastami	6 th September, 2023	Wednesday	01	September-23 days (Sundays-04)
Biswakarma Puja	18 th September, 2023	Monday	01	
Fatcha-Dwaz-Daham	28 th September, 2023	Thursday	01	
Birthday of Gandhiji	2 nd October, 2023	Monday	01	October-14 days (Sundays-05)
Mahalaya	14 th October, 2023	Saturday	01	
Puja Holidays (Durga Puja, Lakshmi Puja, etc.)	18 th October-28 th October, 2023	Wednesday to Saturday	10	
Puja Holidays (Additional Day on Kali Puja, Bhatriwitia, Birthday of Birsa Munda, etc.)	13 th Nov.-16 th Nov., 2023	Monday to Thursday	04	
Chhat Puja (Additional Day)	20 th Nov., 2023	Monday	01	November-19 days (Sundays-04)
Shri Shri Jagaddhatri Puja	21 st Nov., 2023	Tuesday	01	
Birthday of Guru Nanak	27 th Nov., 2023	Monday	01	
Christmas Day	25 th December, 2023	Monday	01	December-25 days (Sundays-05)
New Year's Day, 2024	1 st January, 2024	Monday	01	January- 22 days (Sundays-04)
Birth Day of Swami Vivekananda	12 th January, 2024	Friday	01	
Pous Parban/Makar Sankranti	15 th January, 2024	Monday	01	
Netaji's Birth Day	23 rd January, 2024	Tuesday	01	

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Republic Day	26 th January, 2024	Friday	01	February- 22 days (Sundays-04)
Saraswati Puja	14-15 th February, 2024	Wednesday & Thursday	02	
Sabebarat	26 th February, 2024	Monday	01	
Maha Shiva Ratri	8 th March, 2024	Friday	01	March- 21 days (Sundays-05)
College Foundation Day	9 th March, 2024	Saturday	01	
Doljatra & Holi	25-26 th March, 2024	Monday & Tuesday	02	
Good Friday	29 th March, 2024	Friday	01	
Birthday of Shri Shri Harichand Thakur	6 th April, 2024	Saturday	01	April-23 days (Sundays-04)
Eid-Ul-Fitr	11-12 th April, 2024	Thursday & Friday	02	
May Day	1 st May, 2024	Wednesday	01	May-23 days (Sundays-05)
Birthday of Rabindranath Tagore	8 th May, 2024	Wednesday	01	
Buddha Purnima / Birthday of Pandit Raghunath Murmu	23 rd May, 2023	Thursday	01	
Id-Ud-Zoha (Bakrid)	17 th June, 2023	Monday	01	June-24 days (Sundays-05)
Principal's Discretion	-	-	04	

Kali Puja	12 th Nov., 2023	Sunday	00
Chhat Puja	19 th Nov., 2023	Sunday	00
A. Sen Death Anniversary	10 th December, 2023	Sunday	00
Birth Day of Dr. B.R. Ambedkar / Bengali New Year's Day	14 th April, 2024	Sunday	00

Part-B

Academic Calender in Brief

No. of Working Days	:	261
No. of Holidays	:	50
No. of Sundays	:	53
No. of Teaching Days (including Summer Recess)	:	231 (Approx)
No. Examination Days	:	30 days (Approx.)

*Note: 1. Subject to the approval of G.B & Notification from Govt. of West Bengal some Holidays may Change or incorporated. Such changes will be notified separately.

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Part-C:

Days of Observation in the College and Communities:

Bana Mahotsav Week	15th July - 21st July, 2023
Vidyasagar Death Anniversary	29th July, 2023
Introduction/orientation Programme for 1st Semester	1-2 Aug, 2023
Anti Ragging Week	12th Aug - 18th Aug, 2023
Independence Day	15th Aug, 2023
Teachers' Day & Wall Magazine Publication Week	5th - 12th September, 2023
Birth Day of Vidyasagar	26th Sept., 2023
World AIDS Day	1st December, 2023
World Human Rights Day	10th Dec., 2023
Birthday of Swami Vivekananda	12th January, 2024
Birthday of Netaji	23rd January
Republic Day	26th January, 2023
Saraswati Puja	14-15 Feb., 2024
International Mother's Language Day	21st February, 2024
Birthday of Rabindranath Tagore	8th May, 2024
No Tobacco Day	31st May, 2024
World Environment Day	5th June, 2024
International Yogo Day	21st June, 2024

Part-D:

Annual Seminar Day	To be announced shortly
Annual Social Function	To be announced shortly
Annual Sports Day	To be announced shortly
Annual Exhibition	To be announced shortly
Carrer Fair	To be announced shortly



U. Parichha
Principal 01/07/2023

Principal
Suri Vidyasagar College

Principal,
Suri Vidyasagar College

THE UNIVERSITY OF BURDWAN
Department of Inspector of Colleges

Academic Calendar for affiliated Colleges for the year 2023-2024 (From August, 2023 to July, 2024)						
First Phase : August to 01.08.2023						
Month	Week	Dates in the week	Number of Holidays (Including Sunday)	Number of no class days	Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	Remarks
1	2	3	4	5	6	7
Aug. '23	1st	Aug.(1-6)	1 day: Sunday-06.08.23	1 Day	5 Days	
Aug. '23	2nd	Aug.(7-13)	1 day: Sunday-13.08.23	1 Day	6 Days	
Aug. '23	3rd	Aug.(14-20)	2 days: Independence Day- 15.8.23, Sunday-20.08.23	2 Days	5 Days	
Aug. '23	4th	Aug.(21-27)	1 day: Sunday-27.08.23	1 Day	6 Days	
Aug. - Sept. '23	5th	Aug.-Sept.(28-03)	2 days: Rakhi Bandhan- 30.8.23, Sunday-03.09.23	2 Days	5 Days	
Sept. '23	6th	Sept.(04-10)	2 days: Janmastami-06.09.23, Sunday-10.09.23	2 Days	5 Days	
Sept. '23	7th	Sept. (11-17)	1 day: Sunday-17.09.23	1 Day	6 Days	
Sept. '23	8th	Sept. (18-24)	1day: Sunday- 24.09.23	1 Day	6 Days	

Month	Week	Dates in the week	Number of Holidays (Including Sunday)	Number of no class days	Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	Remarks
1	2	3	4	5	6	7
Sept. - Oct '23	9th	Sept.-Oct. (25-01)	2 days: Fateha-dwaz-daham- 28.09.23 & Sunday- 01.10.23	2 Days	5 Days	
Oct.'23	10th	Oct.-(02-08)	2 days: Gandhiji's Birth Day- 02.10.23 & Sunday-08.10.23	2 Days	5 Days	
Oct '23	11th	Oct.(09-15)	2 days: Mahalaya-14.10.23 & Sunday-15.10.23	2 Days	5 Days	
Oct. '23	12th	Oct. (16-22)	5 days: Puja Holidays start- 18.10.23	5 Days	2 Days	
Oct. '23	13th	Oct. (23-29)	Puja Holidays end-28.10.23 & Sunday-29.10.23	7 Days	Nil	
Oct.-Nov. '23	14th	Oct.-Nov.(30-05)	1 day:Sunday-05.11.23	1 Day	6 Days	
Nov. '23	15th	Nov. (06-12)	1 day: Sunday- 12.11.23	1 Day	6 Days	
Nov. '23	16th	Nov. (13-19)	5 days: 13.11.23 & 14.11.23- Kali Puja, Birth Day of Birsha Munda-15.11.23, Bhatridwitya- 16.11.23, Sunday-19.11.23	5 Days	2 Days	

Month	Week	Dates in the week	Number of Holidays (Including Sunday)	Number of no class days	Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	Remarks
1	2	3	4	5	6	7
Nov. '23	17th	Nov. (20-26)	2 days: Chhat Puja-20.11.23 & Sunday- 26.11.23	2 Days	5 Days	
Nov.-Dec. '23	18th	Nov.-Dec. (27-03)	2 days: Birth Day of Guru Nanak -27.11.23 & Sunday- 03.12.23	2 Days	5 Days	
Dec.'23	19th	Dec.(04-10)	1 day: Sunday- 10.12.23	1 Day	6 Days	
Dec. '23	20th	Dec.(11-17)	1 day: Sunday- 17.12.23	1 Day	6 Days	
Dec. '23	21st	Dec.(18-24)	1 day: Sunday- 24.12.23	1 Day	6 Days	
Dec. '23	22nd	Dec.(25-31)	1 day: Christmas Day- 25.12.23 & Sunday-31.12.23	2 Days	5 Days	
Jan. '24	23rd	Jan.(01-07)	2 days: New Year's Day- 01.01.24 & Sunday-07.01.24	2 Days	5 Days	
Jan. '24	24th	Jan. (08-14)	2days: Birth Day of Swami Vivekananda-12.01.24 & Sunday-14.01.24	2 Days	5 Days	
Jan. '24	25th	Jan. (15-21)	1 day: Sunday-21.01.24	1 Day	6 Days	

Month	Week	Dates in the week	Number of Holidays (Including Sunday)	Number of no class days	Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	Remarks
1	2	3	4	5	6	7
Jan. '24	26th	Jan. (22-28)	3 days: Netaji's Birth Day- 23.01.24, Republic Day- 26.01.24 & Sunday-28.01.24	3 Days	4 Days	
Second Phase : 29.01.2024 to 31.07.2024						
Jan.-Feb. '24	27th	Jan.29-Feb.4	1 day: Sunday -04.02.24	1 Day	6 Days	
Feb. '24	28th	Feb.(5-11)	1 day: Sunday -11.02.24	1 Day	6 Days	
Feb. '24	29th	Feb.(12-18)	3 days: Sree Panchami- 14,02.24 to 15.02.24 & Sunday -18.02.24	3 Days	4 Days	
Feb. '24	30th	Feb.(19-25)	1 day: Sunday-25.02.24	1 Day	6 Days	
Feb.-Mar. '24	31st	Feb.26 - Mar.3	1 day: Sunday- 03.03.24	1 Day	6 Days	
Mar. '24	32nd	Mar.(4-10)	2 days: Shiva Ratri-08.03.24 & Sunday-10.03.24	2 Days	5 Days	

Month	Week	Dates in the week	Number of Holidays (Including Sunday)	Number of no class days	Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	Remarks
1	2	3	4	5	6	7
Mar. '24	33rd	Mar.(11-17)	1 day: Sunday- 17.03.24	1 Day	6 Days	
Mar. '24	34th	Mar. (18-24)	1 days: Sunday- 24.03.24	1 Day	6 Days	
Mar. '24	35th	Mar. (25-31)	4 days: Dol Jatra-25.03.24 to 26.03.24, Good Friday- 29.03.24 & Sunday-31.03.24	4 Days	3 Days	
April '24	36th	April (1-7)	1 day: Sunday-07.04.24	1 Day	6 Days	
April '24	37th	April (8-14)	2 days: Id Ul Fitar-10.04.24, Birth Day of Dr. B.R. Ambedkar, Bengali New Year's Day & Sunday- 14.4.24	2 Days	5 Days	
April '24	38th	April (15-21)	1 day: Sunday- 21.04.24	1 Day	6 Days	
April '24	39th	April (22-28)	1 day: Sunday-28.04.24	1 Day	6 Days	

Month	Week	Dates in the week	Number of Holidays (Including Sunday)	Number of no class days	Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	Remarks
1	2	3	4	5	6	7
April-May '24	40th	April-May(29-5)	2 days: May Day-01.05.24 & Sunday-05.05.24	2 Days	5 Days	
May '24	41st	May(6-12)	2 days: Rabindra Jayanti-08.05.24 & Sunday-12.05.24	2 Days	5 Days	
May '24	42nd	May(13-19)	1 day:Sunday-19.05.24	1 Days	6 Days	
May '24	43rd	May(20-26)	2 days: Buddha Purnima-23.05.24 & Sunday-26.05.24	2 Days	5 Days	Semester Examination-6/4, 20.5.24 to 15.6.24 (During Summer Recess teachers will perform examination duty only as will be assigned by the College Authority)
May-June '24	44th	May-June(27-2)	1 day:Sunday-02.06.24	1 Day	6 Days	Semester Examination-6/4, 20.5.24 to 15.6.24 (During Summer Recess teachers will perform examination duty only as will be assigned by the College Authority)

Month	Week	Dates in the week	Number of Holidays (Including Sunday)	Number of no class days	Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	Remarks
1	2	3	4	5	6	7
June '24	45th	June(3-9)	1 day: Sunday-09.06.24	1 Day	6 Days	Semester Examination-4/2, 20.5.24 to 15.6.24 (During Summer Recess teachers will perform examination duty only as will be assigned by the College Authority)
June '24	46th	June(10-16)	1 day: Sunday-16.06.24	1 Day	6 Days	Semester Examination-4/2, 20.5.24 to 15.6.24 (During Summer Recess teachers will perform examination duty only as will be assigned by the College Authority)
June '24	47th	June(17-23)	2 days: Id-Ud-Zoha-17.06.24 & Sunday-23.06.24	2 Days	5 Days	
June '24	48th	June(24-30)	1 day: Sunday-30.06.24	1 Day	6 Days	

Month	Week	Dates in the week	Number of Holidays (Including Sunday)	Number of no class days	Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	Remarks
1	2	3	4	5	6	7
July '24	49th	July(1-7)	1 day:Sunday-07.07.24	1 Day	6 Days	
July '24	48th	July(8-14)	1 day: Sunday-14.7.24	1 Day	6 Days	
July '24	49th	July(15-21)	1 day: Sunday-21.7.24	1 Day	6 Days	
July '24	50th	July(22-28)	1 day: Sunday-28.7.24	1 Day	6 Days	
July '24	51st	July(29-31)	3 days	Nil	3 Days	
Total				90		

Academic Calendar for the affiliated Colleges- year 2023-2024.	
Particulars	Days
Number of days available for holding Admission Work, Classes, Class Tests, Internal Assessment, Examinations, Observation etc.	276-4=272
Holiday including Sunday	90
Principal's Discretion, if applied/used	4
Total	366



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Field Work as per course curriculum

SURI VIDYASAGAR COLLEGE; College Code : 310		
Department of Chemistry		
List of students and their project works (Titles) taking in Semester - VI (Honours) Examinations 2023		
Subject : Chemistry, Paper/Course : DSE-4		
University Roll	Name of the students	Title of the projects
210331000011	ARINDAM MALLICK	Artificial Intellegence in Chemical Research
210331000024	DEBARGHYA ADHIKARI	Application of SiO ₂ Passivation technique in Mass Production of Si-Solar Cell
210331000063	SAMADARSHITA SADHU	Development and Optimization of Electrochemical Sensor for Real Time Enviornmental Monitoring

DEPARTMENT OF COMMERCE

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
B. Com(Honours)		Project Work(Semester VI)	6.4.2 CH(DSE-4)	3rd Year	Attisa Dutta
					Pratiksha Sethia
					Rahul Sharma
					Sk.Samsuddin
					Suryadeep Mondal
					Debanjan Chowdhury



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DEPARTMENT OF ECONOMICS

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
B.A./ B.Sc. Honours in Economics	ECOH	Field Survey and Project Report	CC-14	2023-2024	Uddipto Ghosh
					Shrayota Tanti



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DEPARTMENT OF GEOGRAPHY

Students name	Field work Title	Semester
SANGRAM MONDAL	A field Report on Socio– economic survey of Kamalpur village, district Birbhum, West Bengal	SEM 5
SK OSMAN		
BIRENDRA KRISHNA ANKUR		
ISHITA BANERJEE		
KUMKUM SHAW		
MD.MAINUL		
MOUMITA MANDAL		
NIVEDITA GARAIN		
RUBI MONDAL		
RUMKI DAS		
SHOVON BHADRA		
SANGRAM MONDAL	A Report on flood in West Bengal, India.	SEM 6
SK OSMAN		
BIRENDRA KRISHNA ANKUR		
ISHITA BANERJEE		
KUMKUM SHAW		
MD.MAINUL		
MOUMITA MANDAL		
NIVEDITA GARAIN		
RUBI MONDAL		
RUMKI DAS		
SHOVON BHADRA		



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DEPARTMENT OF JOURNALISM & MASS COMMUNICATION

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
JOURNALISM AND MASS COMMUNICATION	B.A.	DISSERTATION	DSE 3	2023	1. RAHUL KARMAKAR
					2. RAJDEEP DAS
					3. SHOUVIK MONDAL
					4. ANANYA MITRA
					5. RAJIB MONDAL
					6. AKASH MONDAL
					7. JAYETA GANGULY
					8. ATREYEE GANGULY
					9. ASMA KHATUN
					10. ANIMESH GHOSH
					11. ARKAPRAVA DAS
					12. ATIKUL RAHAMAN
					13. SAYANI DUTTA
					14. ANUSREE CHANDRA
					15. SUN HAZRA
					16. ACHINTYA GARAI
					17. MD. MIRAJ HOSSAIN
					18. INDRA GHOSH
JOURNALISM AND MASS COMMUNICATION	B.A.	COMMUNITY OUTREACH PROGRAMME	DSE 4	2023	1. RAHUL KARMAKAR
2. RAJDEEP DAS					



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					3. SHOUVIK MONDAL
					4. ANANYA MITRA
					5. RAJIB MONDAL
					6. AKASH MONDAL
					7. JAYETA GANGULY
					8. ATREYEE GANGULY
					9. ASMA KHATUN
					10. ANIMESH GHOSH
					11. ARKAPRAVA DAS
					12. ATIKUL RAHAMAN
					13. SAYANI DUTTA
					14. ANUSREE CHANDRA
					15. SUN HAZRA
					16. ACHINTYA GARAI
					17. MD. MIRAJ HOSSAIN
					18. INDRA GHOSH

SURI VIDYASAGAR COLLEGE; College Code : 310

Department of Mathematics

List of students and their project works (Titles) taking in Semester - VI (Honours) Examinations 2023

Subject : Mathematics, Paper/Course : DSE-3 (PW01)

University Roll	Name of the students	Title of the projects
200331000007	ANJAN MANDAL	VECTOR CALCULOUS AND IT'S APPLICATION
200331000014	ARNAB GHOSH	THEORY OF GAMES



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200331000019	BABAN GARAIN	Big-M method
200331000020	BARSHA SAMANTA	The Traveling Salesman Problem
200331000022	BIMAN MONDAL	CONIC SECTION AND ITS APPLICATION
200331000032	GOPINATH MONDAL	Canonical Form and Its Application
200331000035	HAREKRISHNA GHORAI	Probability and Probability distribution
200331000042	KRISHNENDU MONDAL	A STUDY ON JORDAN'S CANONICAL FORM
200331000050	MRITUNJAY GARAI	Graphical Method
200331000053	NILADRI SHANKAR GHOSH	Higher Order Taylor Method
200331000058	PRAHLAD MUKHERJEE	RAMANUJAN'S SUMMATION : WHICH CONTRADICTS THE TRADITIONAL SENSE
200331000059	PRASANTA GHOSH	PROJECT ON GRAPH THEORY
200331000061	PRATIBHA GORAIN	TRANSPORTATION PROBLEM
200331000066	RAHIMODDIN SK	CONVERGENCE OF SERIES
200331000072	RIAJUDDIN SK	INNER PRODUCT SPACE
200331000075	RISHAD RAHAMAN	SIMPLEX METHOD (LPP)
200331000083	SAMIM AKTAR	COMPLEX NUMBER
200331000084	SANANDO SINGHA	An introduction to Group theory
200331000085	SANJOY GARAI	Simple Harmonic Motion
200331000087	SANTU MONDAL	THE CENTRE OF PRESSURE OF A PLANE AREA
200331000091	SHIBNATH BISWAS	GAME THEORY AND IT'S APPLICATION
200331000094	SHUBHADIP SARKAR	RING THEORY
200331000095	SK ASLAM	GROUP HOMOMORPHISM AND ISOMORPHISM
200331000099	SOMNATH BHOLLA	INNER PRODUCT SPACE



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200331000105	SUBHANKAR PAL	Theorem on limits/ continuity and their geometrical meanings/ applications
200331000110	SUPRIYO BAHARA	Metric Space

DEPARTMENT OF PHYSIOLOGY

DSE-1A (Biological Statistics):

Field Work for collection of data of physiological parameters for calculation of statistics such as mean, median, mode, t-test, chi-square test, regression, correlation etc.

All students of SEM-V as a part of course curriculum.

DSE-3A (Human nutrition and dietetics):

Preparation of diet survey report by the students of his/her family as a part of course curriculum.

All students of SEM-VI as a part of course curriculum.

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
B Sc Hons in Physiology	PHYH	Biological Statistics	DSE-1A	SEM V Every Year	All students of SEM V Hons
B Sc Hons in Physiology	PHYH	Ergonomics And Occupational Physiology	DSE-2A	SEM V Every Year	All students of SEM V Hons
B Sc Hons in Physiology	PHYH	Sports And Exercise Physiology	DSE-2B	SEM V Every Year	All students of SEM V Hons
B Sc Hons in Physiology	PHYH	Human Nutrition And Dietetics	DSE-3A	SEM VI Every Year	All students of SEM V Hons
B Sc Gen (Physiology)	PHYG	Diet Survey and Human Expt.	DSE-1A	SEM V Every Year	Nil (not taken by students)



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DEPARTMENT OF ZOOLOGY

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
B Sc Hons in Zoology	ZOOH	Ecology	CC-II	SEM I Every Year	All students of SEM I Hons
B Sc Hons in Zoology	ZOOH	Animal Behaviour	DSE-5	SEM VI Every Year	All students of SEM VI Hons
B Sc Gen Zoology	ZOOG	Applied Zoology	DSE-1	SEM V Every Year	All students of SEM IV gen
B Sc Hons in Zoology	ZOOH	Parasitology	DSE-3	SEM V Every Year	All students of SEM V Hons
B Sc Gen Zoology	ZOOG	Genetics & Evolutionary Biology	CC-IV	SEM IV Every Year	All students of SEM IV gen
MSC ZOOLOGY	MSZO	ECOLOGY	MSZO 105	SEM I Every Year	All students of PG SEM I
MSC ZOOLOGY	MSZO	PARASITOLOGY MICROBIOLOGY	MSZO 406	SEM IV Every Year	All students of PG SEM IV

Tapan Kr. Parichha

Dr. Tapan Kr. Parichha
Principal
Suri Vidyasagar College

Principal,
Suri Vidyasagar College

**SYLLABUS FOR B.A/B.SC. (HONOURS)
IN
MATHEMATICS**

Under Choice Based Credit System (CBCS)

Effective from 2017-2018



**The University of Burdwan
Burdwan-713104
West Bengal**

Sem ester	Course Type	Course Code	Name of the Course	Credit Pattern (L:T:P)	Total class hrs. /week	Marks	Credit	
V	CC	BMH5CC11	Partial Differential Equations and Applications	5:1:0	6	75	6	
		BMH5CC12	Mechanics I	5:1:0	6	75	6	
	Choose any one from the following courses for Discipline Specific Electives.							
	DSE	BMH5DSE11	Linear Programming	5:1:0	6	75	6	
		BMH5DSE12	Number Theory	5:1:0	6	75	6	
		BMH5DSE13	Point Set Topology	5:1:0	6	75	6	
	Choose any one from the following courses for Discipline Specific Electives.							
	DSE	BMH5DSE21	Probability & Statistics	5:1:0	6	75	6	
		BMH5DSE22	Portfolio Optimization	5:1:0	6	75	6	
		BMH5DSE23	Boolean Algebra and Automata Theory	5:1:0	6	75	6	
VI	CC	BMH5CC13	Metric Spaces and Complex Analysis	5:1:0	6	75	6	
		BMH5CC14	Ring Theory and Linear Algebra II	5:1:0	6	75	6	
	Choose any one from the following courses for Discipline Specific Electives.							
	DSE	BMH6DSE31	Mathematical Modeling	5:1:0	6	75	6	
		BMH6DSE32	Industrial Mathematics	5:1:0	6	75	6	
		BMH6DSE33	Group Theory II	5:1:0	6	75	6	
	Choose any one from the following courses for Discipline Specific Electives.							
	DSE	BMH6DSE41	Bio Mathematics	5:1:0	6	75	6	
		BMH6DSE42	Differential Geometry	5:1:0	6	75	6	
		BMH6DSE43	Mechanics II	5:1:0	6	75	6	
Optional Dissertation or project work in place of one Discipline Specific Elective (DSE) Paper.								
PW	BMH6PW01	Project Work	0:0:6	6	75	6		

Course : BMH6PW01

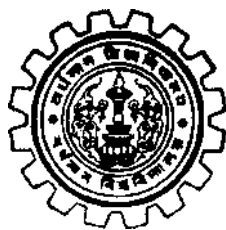
Project Work

(Marks: 75)

Any student may choose Project Work in place of one Discipline Specific Elective (DSE) paper of Semester

-VI. Project Work will be done considering any topic on Mathematics and its Applications. The marks distribution of the Project work is 40 Marks for written submission, 20 Marks for Seminar presentation and 15 Marks for Viva-Voce.

**Syllabus Chemistry
(Hons.)
for SEM-I to SEM-VI
under CBCS**
(to be effective from Academic Year: 2017-18)



The University of Burdwan Burdwan, West Bengal

6th Semester

Course Code	Course Title	Course Type	Credit per course	Marks
CC-13	Inorganic Chemistry-V (Theo) Inorganic Chemistry-V (Prac)	Core Course – XIII	4+2	75
CC-14	Physical Chemistry-IV (Theo) Physical Chemistry-IV (Prac)	Core Course – XIV	4+2	75
DSE-3	Green chemistry or polymer chemistry (Theo + Prac)	Discipline Specific Elective	4+2	75
DSE-4	Inorganic materials of industrial importance (Theo + Prac) or Dissertation followed by power point presentation	Discipline Specific Elective	4+2 or 6	75
TOTAL			24	300

Course Code: DSE-4

Course Title: Dissertation followed by power point presentation (4 + 2) Credits

THE UNIVERSITY OF BURDWAN



SYLLABUS FOR THREE-YEAR DEGREE COURSE IN ZOOLOGY (HONS) UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

(With effect from the session 2017-2018)

P13–Developmental Biology Lab

Developmental Biology	2 Credits																
List of Practical																	
<ol style="list-style-type: none">1. Identification of whole mounts of developmental stages of chick through permanent slides: Primitive streak (13 to 18 hours), 21-33h, 36-48h and 72-96 hours of incubation (Hamilton and Hamburger stages)2. Study of the developmental stages and lifecycle of <i>Drosophila</i> from stock culture3. Study and identification of different sections of placenta (through photo micrograph/slides)4. Project report on <i>Drosophila</i> culture/chick embryo development																	
<p style="text-align: right;">Full Marks: 20</p> <p>Examination Pattern:</p> <table><tr><td>One question from Item No. 2</td><td>-----</td><td>(6 X 1) =</td><td>06</td></tr><tr><td>Identification any four from Item No.1 and 3</td><td></td><td>(2 X 4) =</td><td>08</td></tr><tr><td>Project report</td><td>-----</td><td>=</td><td>04</td></tr><tr><td>Laboratory Note Book</td><td>-----</td><td>=</td><td>02</td></tr></table>		One question from Item No. 2	-----	(6 X 1) =	06	Identification any four from Item No.1 and 3		(2 X 4) =	08	Project report	-----	=	04	Laboratory Note Book	-----	=	02
One question from Item No. 2	-----	(6 X 1) =	06														
Identification any four from Item No.1 and 3		(2 X 4) =	08														
Project report	-----	=	04														
Laboratory Note Book	-----	=	02														

SYLLABUS FOR
M.Sc. COURSE IN ZOOLOGY
(With effect from Session 2020 – 2022)
[CHOICE BASED CREDIT SYSTEM]



DEPARTMENT OF ZOOLOGY
THE UNIVERSITY OF BURDWAN
BURDWAN, WEST BENGAL 713104
INDIA

Semester IV [Credits – 24]

Course				Lect. Hr /week	Dur. Of Exam (in hr)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSZO 401	Core	T	Developmental Biology and Stem cell Biology	4T	2T	10	40	50	4
MSZO 402	Core	T	Biostatistics and Computational Biology	2T	1T	05	20	25	2
MSZO 403	Core	P	Developmental and Computational Biology	4P	2P	05	20	25	2
MSZO 404 [#]	DE	T	Discipline-centric Elective*	4T	2T	10	40	50	4
MSZO 405 ^{##}	DE	T	Discipline-centric Elective*	4T	2T	10	40	50	4
MSZO 406 ^{###}	DE	P	Discipline-centric Elective*	8P	4P	10	40	50	4
MSZO 407	Term paper / Project	T /P	Dissertation ^{\$\$} (Empirical or Non empirical)	N.A.	N.A.	10	40	50	4
Total credit									24

*Based on Discipline-centric Elective taken in Semester -III

\$\$Based on Discipline-centric Elective

#DE Course Code: MSZO 404-DE1, MSZO 404-DE2, MSZO 404-DE3, MSZO 404-DE4, and MSZO 404-DE5

##DE Course Code: MSZO 405-DE1, MSZO 405-DE2, MSZO 405-DE3, MSZO 405-DE4, and MSZO 405-DE5

###DE Course Code: MSZO 406-DE1, MSZO 406-DE2, MSZO 406-DE3, MSZO 406-DE4, and MSZO 406-DE5

Notes on marks distribution:

- In each course, 20% marks is allotted for Internal Assessment (for both theory and practical), i.e., 10 marks for a paper of 50 marks and 5 marks for a paper of 25 marks.
- Marks distribution for each paper will be as follows:
 - For **40** marks of **NON-UNIT** based paper:
Four questions (out of six) of 2 marks each, four questions (out of six) of 4 marks each and two questions (out of four) of 8 marks each are to be answered
 - For **40** marks of **UNIT** based paper:
UNIT I (Total Marks 20): *Four questions (out of six) of 1 mark each, two questions (out of four) of 4 marks each and one question (out of two) of 8 marks are to be answered*
UNIT II (Total Marks 20): *Four questions (out of six) of 1 mark each, two questions (out of four) of 4 marks each and one question (out of two) of 8 marks are to be answered*
 - For 20 marks of **NON-UNIT** based paper:
Four questions (out of six) of 1 mark each, two questions (out of four) of 4 marks each and one question (out of two) of 8 marks are to be answered

**MSZO 407
TERM PAPER / PROJECT WORK
(Credit 4)**

Course specific outcome

Hands on training on different methods used in different biological disciplines, development of a preliminary idea in pursuing research in future; learning to write a review article including its references.

Full Marks: 50

**MSZO 407: TERM PAPER / PROJECT WORK
(Based on Discipline-centric Elective Papers)**

[Division of marks: Internal Assessment: 10; Submission (not less than 10,000 words excluding references): 25; Seminar Presentation and Viva: 15]

The University of Burdwan



Syllabus for B.A. / B.Sc. (Hons.)
In
Geography
under Semester with
Choice Based Credit System
w.e.f. 2017- 2018

SEMESTER	COURSE OPTED	COURSE NAME	CREDIT	MARKS			NO. OF HOURS L-T-P (PER WEEK)
				IA	ESE	TOTAL	
V	CORE COURSE (CC11)	RESEARCH METHODOLOGY AND FIELD WORK	4	15	40	75	4-0-0
			2		20		0-0-4
	CORE COURSE (CC12)	REMOTE SENSING AND GIS	4	15	40	75	4-0-0
			2		20		0-0-4
	DISCIPLINE SPECIFIC ELECTIVE (DSE)	DSE – 1 URBAN GEOGRAPHY OR CULTURAL AND SETTLEMENT GEOGRAPHY	6	15	60	75	5-1-0
	DISCIPLINE SPECIFIC ELECTIVE (DSE)	DSE 2 POPULATION GEOGRAPHY OR SOCIAL GEOGRAPHY	6	15	60	75	5-1-0
TOTAL			24			300	

VI	CORE COURSE (CC13)	EVOLUTION OF GEOGRAPHICAL THOUGHTS	6	15	60	75	5-1-0
	CORE COURSE (CC14)	DISASTER MANAGEMENT	4	15	40	75	4-0-0
			2		20		0-0-4
	DISCIPLINE SPECIFIC ELECTIVE(DSE3)	DSE – 3 FLUVIAL GEOMORPHOLOGY OR RESOURCE GEOGRAPHY	6	15	60	75	5-1-0
	DISCIPLINE SPECIFIC ELECTIVE(DSE4)	DSE – 4 SOIL AND BIO GEOGRAPHY OR AGRICULTURAL GEOGRAPHY	6	15	60	75	5-1-0
	TOTAL			24			300
TOTAL OF ALL SEMESTERS			142			1900	

*L-T-P = LECTURE-TUTORIAL-PRACTICAL

Syllabus for B.A./B.Sc. (Honours) in Geography Semester V

Core Course (CC)	Discipline Specific Elective (DSE)
CC-11 (Theory) RESEARCH METHODOLOGY AND FIELD WORK	DSE – 1 URBAN GEOGRAPHY OR CULTURAL AND SETTLEMENT GEOGRAPHY
CC-11 (Practical) RESEARCH METHODOLOGY AND FIELD WORK	
CC-12 (Theory) REMOTE SENSING AND GIS	DSE – 2 POPULATION GEOGRAPHY OR SOCIAL GEOGRAPHY
CC-12 (Practical) REMOTE SENSING AND GIS	

Unit 2: Field Work

1. Fieldwork in Geographical studies – Role and significance. Selection of study area and objectives. Pre-field preparations. Ethics of fieldwork

2. Field techniques and tools: Questionnaires (open, closed, structured, non- structured). Interview with special reverence to focused group discussions.
3. Field techniques and tools: Landscape survey using transects and quadrants, constructing a sketch, photo and video recording.
4. Collection of samples. Preparation of inventory from field data. Post-field tasks.

Reference Books

- ▶ Creswell J., 1994: Research Design: Qualitative and Quantitative Approaches Sage Publications.
- ▶ Dikshit, R. D. 2003. The Art and Science of Geography: Integrated Readings. Prentice- Hall of India, New Delhi.
- ▶ Evans M., 1988: “Participant Observation: The Researcher as Research Tool” in Qualitative Methods in Human Geography, eds. J. Eyles and D. Smith, Polity.
- ▶ Mukherjee, Neela 2002. Participatory Learning and Action: with 100 Field Methods.

Syllabus for B.A./B.Sc. (Honours) in Geography Semester VI

Core Course (CC)	Discipline Specific Elective (DSE)
CC-13 (Theory) EVOLUTION OF GEOGRAPHICAL THOUGHT	DSE – 3 FLUVIAL GEOMORPHOLOGY
	OR RESOURCE GEOGRAPHY
CC-14 (Theory) DISASTER MANAGEMENT	DSE – 4 SOIL AND BIO GEOGRAPHY
	OR

CC 14 (Practical) : DISASTER MANAGEMENT

Credit: 2

Total Marks: 20 {10+ 10(5+5)}
hours

End Term Examination Time: 2

Disaster Management**Project Work List of****Practical**

An individual Project Report based on any one among the following disasters incorporating preparedness, mitigation and management plan.

1. Earthquake
2. Landslide
3. Cyclone
4. Flood
5. Drought
6. River Bank Erosion
7. Mining Area Subsidence
8. Tsunami

1. Students will prepare a Project Report based on the topic mentioned by the Department;
2. The report should be typed in MS-Word in English language on A4 size paper in candidate's own words within 2000 words. The total number of pages in the Field Report should not exceed 20 pages including texts, figures, tables, photographs, maps, references (APA) and appendices
3. A copy of the bound report, duly signed by the concerned teacher, should be submitted
4. Preparation of maps with suitable scale and latitude and longitude
5. Preparation of charts/graphs in MS-Excel and duly labelled
6. The report should be typed in MS-Word. The font size is fixed at 12 in Times New Roman and the line spacing 1.5

The University of Burdwan



**Syllabus for B.A. (Honours)
in
Mass Communication & Journalism
Under Choice Based Credit System
w.e.f. 2017-2018**

BA(HONOURS)INMASSCOMMUNICATION&JOURNALISM

SEMESTER	PAPER CODE	PAPERNAME	THEORY	PRACTICAL	TUTORIAL
VI	CC13	RURALCOMMUNICATION	5	0	1
	CC14	MEDIAINDUSTRYAND MANAGEMENT	5	0	1
	DSE3	MULTIMEDIAJOURNALISM	5	0	1
		OR DISSERTATION	0	6	0
	DSE4	MEDIA&INDUSTRY	5	0	1
OR COMMUNITYOUTREACH PROGRAMME		0	6	0	

SEMESTER VI

DSE3: Multi-Media Journalism

75 Marks, 6 Credits (Total No of Classes –60)

Unit 1 Introduction to Multimedia

Multimedia and interactivity, Basics of multimedia reporting, importance of audio, photo and video production skills in the newsroom in contemporary times, brainstorming about story ideas, developing a portfolio – print and online, legal and ethical issues and diversity in the media-media law, ethics multicultural sensitivity.

Unit 2 Print

Process of Production: Decision making and skills for multi-platform communications, Paraphrases, quotes and attribution in media writing, Leads and Nut Graphs, News Writing for Web, Content Development, Sources and Online Research, Story Organization, Strategies for effective interviewing and notetaking, Interviewing Techniques.

Unit 3 Photograph

Photo on Screen: Rule of thirds, focal point, Composition. Photography as a powerful tool to tell a story. Dynamic content and visual medium, increasing importance of photojournalism in today's journalism, Photography and cut lines as an important part of storytelling. Placements & Visual Design

Unit 4 Audio & Video Content

Focus on audio recording, telling stories with sources and natural sound, bytes, editing & Placement of sound, Storytelling with video, broadcasting/webcasting: Collecting content, Structuring story, Writing, video editing with interviews and B-roll, streaming.

Unit 5 Mobile Journalism

Screen sizes & responsive web, Information multimedia and web architecture, Marketing websites, corporate websites, web feature stories, key points for web interactive narrative, interactive users vs linear narratives, elements of an interactive writer.

Final project incorporating elements from all the previous unit—taking a story and adding audio, photo and video to compliment it for online publication.

OR

Dissertation

75 Marks, 6 Credits
(Total No of Classes –60)

Word limit-max 3000

Related with any discipline of Mass communication

Research problem, methodology, data analysis, observation

And bibliography should mention

The University of Burdwan



Syllabus for 3-Yr. B.Com. (Hons.)

Under Semester with

Choice Based Credit System

w.e.f. 2017-2018 onward

Structure of B.Com (Hons.) Syllabus under CBCS

Semester I		
Papercode	Subject	Nature
1.1	Environmental Studies	(AECC-1)
1.2 CH	Financial Accounting-I	(CC-1)
1.3 CH	Business Management	(CC-2)
1.4 CH	Micro Economics	(GE-1)
Semester II		
2.1	Communicative English/MIL	(AECC-2)
2.2 CH	Cost Accounting	(CC-3)
2.3 CH	Business Law	(CC-4)
2.4 CH	Macro Economics	(GE-2)
Semester III		
3.1 CH	Corporate Laws	(CC-5)
3.2 CH	Income Tax Law and Practice	(CC-6)
3.3 CH	Financial Accounting-II	(CC-7)
3.4 CH	E-Commerce	(SEC-1)
3.5 CH	Indian Economy	(GE-3)
Semester IV		
4.1 CH	Business Mathematics and Statistics	(GE-4)
4.2 CH	Fundamentals of Marketing Management	(CC-8)
4.3 CH	Computer Applications in Business	(CC-9)
4.4 CH	Entrepreneurship	(SEC-2)
4.5 CH	Fundamentals of Human Resource Management	(CC-10)
Semester V		
5.1 CH	Financial Accounting-III	(CC-11)
5.2 CH	Auditing	(CC-12)
<i>Anyone</i> of the following		(DSE-1)
5.3.1 CH	Management Accounting	
5.3.2 CH	Fundamentals of Banking and Insurance	(DSE-2)
<i>Anyone</i> of the following		
5.4.1 CH	Indian Financial System	(DSE-2)
5.4.2 CH	Advertising	
Semester VI		
6.1 CH	Fundamentals of Financial Management	(CC-13)
6.2 CH	Indirect Tax Law	(CC-14)
<i>Anyone</i> of the following		(DSE-3)
6.3.1 CH	Fundamentals of Investment	
6.3.2 CH	Business Tax Procedures and Management	(DSE-4)
<i>Anyone</i> of the following		
6.4.1 CH	International Business	(DSE-4)
6.4.2 CH	Project Work	

OR

DSE-4:PROJECTWORK

In the Project Work paper each student will have to select one topic on which he/she will conduct a study and submit a project report in not less than 1500 words. The study may be based on primary data collected from field survey or on secondary data available from published sources. Each project report will be examined jointly by one internal examiner and one external examiner. In the Project Work there will be 60 marks on the written project report. Each student will have to inform the Head of the Department about the title of the project work at the beginning of the sixth semester class and the project report will have to be submitted before the starting of the sixth semester final examination. There will be 15 marks consisting of presentation and viva voce on the project report. In this paper, each student will have to make a presentation on the report submitted by him/her and face a viva voce by a board of examiners.

The University of Burdwan



B.A./B.Sc. (Honours)
In
Economics
w.e.f. 2017-18
under Semester with CBCS

Structure of Syllabus for BA/B.Sc.Honours in Economics under Semester with CBCS

Students must have to pass in Mathematics/ Business Mathematics or equivalent at +2 Level

SEM	Paper Code	Paper Description	Course Type	L-T-P	Credit	Marks
I		Introductory Microeconomics	CC-1	5-1-0	6	75
		Statistics-I	CC-2	5-1-0	6	75
		AECC-I ENVS	AECC-1	4-0-0	4	100
		Generic Elec(GE)-I – any discipline other than Economics	GE-1	5-1-0	6	75
II		Introductory Macroeconomics	CC-3	5-1-0	6	75
		Mathematical Economics –I	CC-4	5-1-0	6	75
		AECC-II Communicative English / MIL	AECC-2	2-0-0	2	50
		Generic Elec(GE)-II – any discipline other than Economics	GE-2	5-1-0	6	75
III		Intermediate Microeconomics	CC-5	5-1-0	6	75
		Intermediate Macroeconomics	CC-6	5-1-0	6	75
		Mathematical Economics –II	CC-7	5-1-0	6	75
		Skill Enh Course (SEC)-I	SEC-1	2-0-0	2	50
		Generic Elec(GE)-III – any discipline other than economics	GE-3	5-1-0	6	75
IV		Selected Features of Indian Economy	CC-8	5-1-0	6	75
		Statistics-II	CC-9	5-1-0	6	75
		Development Economics	CC-10	5-1-0	6	75
		Skill Enh Course (SEC)-II	SEC-2	2-0-0 0-0-2	2	50
		Generic Elec(GE)-IV – any discipline other than economics	GE-4	5-1-0	6	75

V		International Economics	CC-11	5-1-0	6	75
		Money and Banking	CC-12	5-1-0	6	75
	*	DiscSpElective(DSE)-I	DSE-1	5-1-0	6	75
	*	DSE-II	DSE-2	5-1-0	6	75
VI		Basic Econometrics	CC-13	5-1-0	6	75
		Field Survey & Project Report	CC-14	0-0-6	6	75
	*	DSE-III	DSE-3	5-1-0	6	75
	*	DSE-IV	DSE-4	5-1-0	6	75

CC14: Field Survey and Project Report

Full Marks: 75

Credit: 6

Lectures: 30 + Practical: 40

(Project Report: 50 Marks)

(Viva-Voce: 25 Marks)

This is a Project Paper where the Students will make a Field Visit to collect Primary information followed by analysis of data and writing a project report with support from the faculty members. Ideally there should be 10 classroom lectures to prepare the students for Field Survey and to train them for Report Writing. Remaining should be Field Visits and Report Writing.

The project report should ideally cover the following areas:

Introduction – Motivations – Literature Review – Objectives – Methodology –
Results– Policy Suggestion – Bibliography

Project to be done on a small Primary sample of size 30 or more observations.

Proposed Guidelines

1. Each college shall arrange for a Field Visit for collection of data by the students
2. Each student will prepare a term paper between 4000-5000 words (excluding charts, diagrams, tables etc.).
3. The selection of the topic will be from the subjects covered in the undergraduate economics honours syllabus.
4. The term paper will be submitted by the candidates to the respective colleges at least a fortnight before the viva-voce examination which will be held at the respective college centres.
5. The board of examiners will consist of one internal and one external examiner (from some other college on a one-on-one basis).
6. The marks division for the term paper will be as follows: 50 for the written report and 25 for viva voce.
7. The marks of the written paper will be the average given by the internal and external examiners.
8. However, the viva-voce will be conducted and the marks awarded by the external examiner only.

THE UNIVERSITY OF BURDWAN



**Curriculum and syllabus for 3- yr.
B.Sc. General in
Plant Protection
Under Choice Based Credit System
(CBCS) (*w.e.f.* Academic Year
2017-2018)**

Scheme for Choice Based Credit System in B.Sc. with Plant Protection:

Semester	Core Course (12)	Ability Enhancement compulsory course (AECC) (2)	Skill enhancement course (SEC) (2)	Discipline specific elective DSE (6)
SEM-I	Discipline 1 (Plant Protection) CC 1A: Pests and Vectors Discipline 2 (other) CC 2A: Discipline 3 (other) CC 3A:	Environmental Studies (ENVS)		
SEM-II	Discipline 1 (Plant Protection) CC 1B: Pests management Discipline 2 (other) CC 2B: Discipline 3 (other) CC 3B:	Communicative English /MIL		
SEM-III	Discipline 1 (Plant Protection) CC 1C: Bionomics, Plant Diseases and their		SEC-1	

	Management Discipline 2 (other) CC 2C : Discipline 3 (other) CC 3C:			
SEM-IV	Discipline 1 (Plant Protection) CC 1D: Plant's defence Mechanism Discipline 2 (other) CC 2D: Discipline 3 (other) CC 3D:		SEC-2	
SEM-V			SEC-3	DSE- 1A: (Plant Protection) : Integrated Pest Management/ Seed Pathology and Seed Treatment DSE – 2A (other) DSE – 3A (other)
SEM-VI			SEC-4	DSE – 1B : (Plant Protection) : Biotechnology in Plant Protection/ Dissertation DSE - 2B (other) DSE- 3B (other)

Semester –VI

Discipline specific Electives

- (1) **Dissertation (Curriculum based local area survey of pest and crop)** **Credit: 6**

ENVIRONMENTAL STUDIES

Credits: 4

Course Code: AEECC1

COURSE TITLE: FUNDAMENTALS OF ENVIRONMENTAL STUDIES

Lectures – 80

Unit 1: Basic of Environmental Studies (06)

Definition, Nature, Scope and Importance; Components of environment: Environmental education

Unit 2: Natural Resources: Renewable & Non-renewable Resources (15)

Nature and natural resources their conservation and associated problems:

- Forest resources: Uses, types and importance, Joint Forest Management & Tribal population, Deforestation and its effects
- Water resources: Distribution of water on Earth; Use, over exploitation of surface and ground water; Dams: Benefits and problems; Flood and Drought
- Mineral resources: Mineral resources in India; Use and exploitation, Social impacts of mining
- Food resources: World food problems and food insecurities.
- Energy resources: Renewable and Non-renewable energy sources; Use of alternate energy sources - Case studies
- Land resources: Land as a resource; Land degradation, landslides, soil erosion, desertification
- Use of resources for sustainable development

Unit 3: Ecology & Ecosystems (12)

Concept of ecology, Population ecology, Community ecology

- Concept of an ecosystem, different types of ecosystem
- Food chains, food webs and ecological succession
- Energy flow in the ecosystem and energy flow models

Unit 4: Biodiversity & Conservation (12)

- Biodiversity: Levels of biological diversity
- Values of biodiversity
- Hot-Spots of biodiversity, Mega-biodiversity countries
- Threat to biodiversity
- Threatened and endemic species of India
- Conservation of biodiversity (*In-situ* and *Ex-situ*)
- Ecosystem services: Ecological, Economical, Social, Ethical, Aesthetical and Informational values

Unit 5: Environmental Pollution & Management

(12)

(a) Nature, Causes, Effects and Control measures of –

- (i) Air pollution
- (ii) Water pollution
- (iii) Soil pollution
- (iv) Noise pollution
- v) Nuclear hazards

(b) Fireworks Pollution: Definition, Composition/Ingredients, effects, monitoring strategies

- Solid waste management: Causes, effects and disposal methods; Management of biomedical and municipal solid wastes
- Disaster management: Floods, Earthquake, Cyclone and Landslides

Unit 6: Environmental Policies & Practices

(15)

- Constitutional Provisions for protecting environment- Articles 48(A), 51 A (g)
- Environmental Laws: The Environment (Protection) Act, 1986; The Air (Prevention and Control of Pollution) Act, 1981; The Water (Prevention and Control of Pollution) Act 1974; Forest (Conservation) Act, 1980
- The wildlife Protection Act, 1972
- Climate change, Global warming, ENSO, Acid rain, Ozone layer depletion; Montreal and Kyoto Protocols

Unit 7: Human Communities & Environment

(08)

- Human population growth; Impacts on environment
- Population explosion – Family Welfare Programme
- Environment and human health: Concept of health and disease; Common communicable and Non- communicable diseases; Public awareness
- Environment movements in India: Chipko Movements, Silent Valley Movement, Movements in Karnataka

Unit 8: Field Work Report/Project Report/Term paper (based on any one of the following topics and to be evaluated by internal teachers only)

- Environmental assets - River/Forest/Grassland/Hill/Mountain *etc.*
- Environmental pollution - Urban/Rural/Industrial/Agricultural
- Study of common Plants/Insect /Birds/Wild life *etc.*
- Study of simple ecosystems: Pond/River/Hill slope *etc.*
- Municipal solid waste management and handling.