

MBA (HR) PROGRAMME DESIGN UNDER CHOICE BASED CREDIT SYSTEM
DEPARTMENT OF BUSINESS ADMINISTRATION (HUMAN RESOURCE)
THE UNIVERSITY OF BURDWAN

THE PROGRAMME

The Master of Business Administration (Human Resource) i.e. MBA (HR) programme is a full-time, post graduate programme in Human Resource Management offered by the Department of Business Administration (Human Resource), The University of Burdwan. The programme is designed to enable students to comprehend the wide range of contemporary concepts, techniques and practices in the field of human resource management and understand the imperatives that influence the field.

PROGRAMME OBJECTIVE

To turn out a repertoire of budding executives thoroughly conversant with the general principles of management along with the tools and techniques pertinent thereto and have specialized in-depth knowledge and expertise in management of human resources of an organisation.

PROGRAMME STRUCTURE

The courses for the MBA (HR) programme are offered in the following areas:

1. ***Foundations of Management***
2. ***Human Resource Management***
3. ***Organisational Behaviour***
4. ***Strategic Management***
5. ***Marketing Management***
6. ***Accounting & Finance***
7. ***Systems, Operations & Decision Sciences***
8. ***Other Emerging Areas***

There shall be two types of courses viz. Core Courses and Elective Courses. A student is compulsorily required to take the core courses as part of the core requirement of the MBA (HR) programme. Elective courses can be chosen from a pool of courses offered by the parent department or other departments. Students can choose the electives from the courses which facilitate improved understanding of the subject or provide exposure to other disciplines/subjects. Elective courses offered by the parent department would be considered as Departmental Electives or Major Electives. Elective courses offered by other departments/disciplines would be referred to as Non-departmental Electives or Minor Electives. Students from other departments can choose the non-departmental/minor electives from the options available in the curriculum. A course code has been denoted with an alpha-numeric symbol signifying the programme name, semester, area and the serial no. of the course under the particular semester. Major elective courses and minor elective courses have been prefixed with the letters E and ME respectively before the numeric digits in the course code.

PROGRAMME ADMINISTRATION

In order to complete the MBA (HR) programme, a student is required to obtain **102 credits**. Each of the courses in the identified areas carries 3 credits (excluding Inter-disciplinary Elective offered by other departments/SWAYAM platform, Summer Internship Project, Dissertation and Field Work and Community Engagement). The credit distribution for the programme is as follows:

- **54 credits from 18 core courses** (excluding Summer Internship Project and Dissertation and Field Work)
- **6 credits** from Summer Internship Project (3 credits) and Dissertation and Field Work (3 credit)
- **2 credits** shall have to be earned from Community Engagement Course.
- **40 credits from elective courses as follows:**
 - **24 credits** from 8 elective courses in the Human Resource Management Area.
 - **12 credits** from 4 elective courses from the areas excluding Human Resource Management Area.
 - **4 credits** from Inter-disciplinary elective course offered by other departments/course through SWAYAM platform following the provisions and stipulations of the university regulations.

The other details relating to the programme based on Choice Based Credit system are as follows:

- Theoretical courses of 3 and 4 credits entail 30 and 40 lecture hours respectively including tutorials.
- Each course carries 100 marks (excluding Interdepartmental elective course and community engagement course) of which 20% will be reserved for internal assessment for all theoretical courses and the remaining 80% will be for written examination. Internal Assessment will be made during the semester on the basis of attendance (25%) and assignment/class test/viva (75%). The marks distribution for Interdepartmental elective course and community engagement course would be 50 marks (80% will be for written and 20% will be reserved for internal assessment) and 20 marks (Report writing: 10 marks & Presentation and viva-voce: 10 marks) respectively, unless otherwise specified in the relevant regulation of the university.
- Emphasis will be given on case study-based teaching in the relevant courses of the programme.
- For Summer Internship Project (MBAHR2206), students will be required to undergo summer training of 4-6 weeks duration in an industrial, business or service organisation by taking up a project study. The report will have to be submitted as per the notification of the department/university.
- Course MBAHR4203 Dissertation and Field Work, will be segregated into two components: Dissertation and Field Work. Dissertation will be based on Contemporary Issues in Human Resource Management. Field Work will be based on industry visit(s) to be organised by the department/study signifying macro level Human Resource Development. The choice of Dissertation and Field Work will be decided by the Department/PGBS.

- In semester IV, each student shall have to compulsorily participate in Community Engagement Course (MBAHR4204) from the specified programmes subject to the approval of the Department/PGBS. Community Engagement activities will be based on components like involvement in activities aimed at the excluded class/deprived children, visit to villages and identification of socio-economic issues on rural livelihood/rural society, understanding rural institutions, participation in rural development programmes, serving the interests of informal workers, career counseling for the students of the excluded group, participation in literacy camps and other types of activities as specified and approved by the department.
- A single report comprising three separate sections on Dissertation, Field Work and Community Engagement Course will have to be submitted within the deadline set by the department/university.
- The list of electives to be offered in a particular semester would be decided by the departmental committee.
- Students from other departments can opt for the Inter-disciplinary Elective courses from the different areas by obtaining necessary permission from their concerned departments.
- The Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) shall be calculated as per extant university regulations.
- Issues relating to admission, attendance, examination, programme administration, etc. will be governed by the relevant policies, rules and regulations of the university.

CORE COURSES		ELECTIVE COURSES	
SEMESTER-I			
MBAHR1101	Management Process and Organisation Theory (MPOT)	MBAHRE1408	Corporate Governance (CG)
MBAHR1102	Managerial Economics (ME)	MBAHRE1109	Indian Ethos and Business Ethics (IEBE)
MBAHR1303	Organisational Behaviour (OB)	MBAHRE1110	Indian Economy and Policy (IE&P)
MBAHR1504	Fundamentals of Marketing Management (FMM)	MBAHRE1111	Development Economics (DE)
MBAHR1605	Basic Accounting and Finance (BAF)	MBAHRE1112	Business Laws (BL)
MBAHR1206	Fundamentals of Human Resource Management (FHRM)		
MBAHR1707	Fundamentals of Production and Operations Management (FPOM)		
SEMESTER-II			
MBAHR2101	Research Methodology (RM)	MBAHRE2407	Corporate Social Responsibility and Sustainability (CSRS)
MBAHR2202	Human Resource Planning and Development (HRPD)	MBAHRE2208	Managerial Counselling and Negotiation Skills (MCNS)
MBAHR2103	Managerial Communication and Skill Development (MCSD)	MBAHRE2209	Trade Unionism and Collective Bargaining (TUCB)
MBAHR 2204	Compensation and Benefits Management (CBM)	MBAHRE2210	Understanding Self: Indian Perspective (USIP)
MBAHR2205	Training and Development (T&D)	MBAHRE 2311	Organisational Change and Development (OCD)
MBAHR2206	Summer Internship Project (SIP)	MBAHRE2712	Quantitative Techniques for Human Resource Management (QT)
		MBAHRE2113	Business Environment (BE)
		MBAHRE2614	Corporate Finance (CF)
		MBAHRE2615	Financial Statement Analysis (FSA)
		MBAHRE2616	Corporate Reporting (CR)
SEMESTER—III			
MBAHR3401	Introductory Strategic Management (ISM)	MBAHRE3205	Economics of Human Resources (EHR)
MBAHR3202	Performance Management and Competency Mapping (PMCM)	MBAHRE3206	Human Resource Management in Service Sector (HRMSS)
MBAHR3203	Fundamentals of Industrial Relations (FIR)	MBAHRE3207	Stress Management and Employee Well-being (SMEW)
MBAHR3204	Labour Laws-I (LL-I)	MBAHRE3208	Employee Empowerment and Engagement (EEE)
		MBAHRE3309	Team Dynamics at Work (TDW)

		MBAHRE3310	Leadership (LSP)
		MBAHRE3311	Ergonomics (ERG)
		MBAHRE3712	Management Information System (MIS)
		MBAHRE3413	Corporate Creativity and Strategic Innovation (CCSI)
		MBAHRE3814	Infrastructure Management (IM)
		MBAHRE3815	Health Care Management (HCM)
		MBAHRE3816	Social Enterprise Management (SEM)
		MBAHRE3617	Financial Institutions and Markets (FIM)
		MBAHRE3618	Business Valuation (BV)
		MBAHRME3419	Industrial Organisation and Competitive Strategies (IOCS) <i>(Interdepartmental Elective)</i>
		MBAHRME3220	Human Resource Development (HRD) <i>(Interdepartmental Elective)</i>
		<i>Interdepartmental Elective course(s) will be offered to the students of allied/other departments.</i>	
SEMESTER—IV			
MBAHR4201	Labour Laws-II (LL—II)	MBAHRE4205	International Human Resource Management (IHRM)
MBAHR4202	Strategic Human Resource Management (SHRM)	MBAHRE4206	Human Capital Management and HR Audit (HCMA)
MBAHR4203	Dissertation and Field Work (D&FW)	MBAHRE4207	Contemporary Employment Relations (CER)
MBAHR4204	Community Engagement (CE)	MBAHRE4208	Human Resource Information System (HRIS)
		MBAHRE4409	Entrepreneurship Development (ED)
		MBAHRE4410	Knowledge Management and Business Excellence (KMBE)
		MBAHRE4411	Innovation Management (IM)
		MBAHRE4712	Total Quality Management (TQM)
		MBAHRE4213	Cross Cultural and Diversity Management (CCDM)
		MBAHRE4214	HR Analytics (HRA)
		MBAHRE 4215	International Labour Organisation and International Labour Laws (ILO&ILL)
		MBAHRE4416	Strategic Management of Non-Profit Organisations (SMNPO)
		MBAHRE4517	Employer Branding (EB)
		MBAHRE4818	Management of Rural Business (MRB)
		MBAHRE4819	Sports Management (SM)
		MBAHRE4820	Educational Institutions Management (EIM)

Serial Number:02

**MASTER OF BUSINESS
ADMINISTRATION (MBA)
CURRICULUM**

With

Choice Based Credit System (CBCS)

(With Effect From Session 2020-21)



**DEPARTMENT OF BUSINESS ADMINISTRATION
THE UNIVERSITY OF BURDWAN**

PROGRAMME ADMINISTRATION

In order to successfully complete the MBA programme, as per the AICTE guideline, a student is required to obtain 102 credits from the different areas along with two compulsory special courses viz. (i) Summer Internship Project (SIP) and (ii) Comprehensive Report (CR). Each of the courses in the identified areas carries 3 credits. Summer Internship Project (SIP) and Comprehensive Report (CR) carry 3 credits each. The credit distribution for the programme is as follows:

1. **54 credits** from 18 core courses @ 3 credits per course (excluding Summer Internship Project and Comprehensive Report).
2. **40 credits** from different elective courses as follows:
 - **27 credits** from 9 elective courses exclusively from one of the four specialization areas viz. (A) **Marketing Management**, (B) **Financial Management**, (C) **Human Resource Management**, (D) **Systems, Operations & Decision Sciences**.
 - **9 credits** from 3 elective courses from:
 - (i) areas excluding four specialization areas, and (ii) emerging areas.
 - **4 credits** from Inter-disciplinary elective course offered by other departments/course through SWAYAM platform following the provisions and stipulations of the University regulations.
3. **6 credits** from **Summer Internship Project (3 credits)** and **Comprehensive Report (3 credits)**.
4. **2 credits** shall have to be earned from **Community Engagement Course**.

The other details relating to the programme based on Choice Based Credit System (CBCS) are as follows:

- Theoretical courses of 3 and 4 credits involve 30 and 40 lecture hours respectively including tutorials.
- Each course, excepting (a) Comprehensive Report, (b) Community Engagement Course and (c) Minor Elective course, carries 100 marks of which 20 % will be reserved for internal assessment for all theoretical courses and the remaining 80 % will be for written examination. Internal Assessment will be conducted during the semester on the basis of attendance (25%) and assignment/class test/viva/term paper/presentation, etc. (75%). The marks distribution for inter-departmental elective course and community engagement course would be 50 marks (80% will be for written and 20% will be reserved for internal assessment) and 20 marks (Report writing: 10 marks & Presentation and Viva-voce: 10 marks) respectively, unless otherwise specified in the relevant regulation of the university.
- The elective courses to be offered to the students will be decided every semester by the Departmental Committee.
- Emphasis will be given on case study-based teaching in the relevant courses of the programme.
- **All the students will have to undergo Summer Internship Project (SIP) of 4 to 6 weeks duration with an industrial/business/service/social organization by taking up a project study.** The SIP report will carry 80 marks and the viva voce to be conducted on the SIP will carry 20 marks. The report will have to be submitted as per the notification of the department/university.
- Course MBA 4103 (Comprehensive Report) will be segregated into three components: (A) Final Project Study – 100 marks (Project Report-80 Marks, Project Viva-20 Marks), (B) Grand Viva – 50 marks, and

(C) Industry Visit – 50 marks (Industry Visit Report – 40 marks, Viva voce – 10 marks).

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- A student has to take up the Final Project Study in his/her area of specialisation. Field Study will be based on Industry visit(s) to be organised by the Department during the programme. In case, a student cannot participate in the Industry Visit due to medical or any other emergency reason(s), he/she will have to undergo Field Work/Field Survey or any other alternative assignment(s), as may be decided by the Departmental Committee, considering the nature and gravity of the situation.
- **Community Engagement Course (MBA 4104) – Community engagement activities will be based on components like visit to villages and identification of socio-economic issues on rural livelihood, serving the interests of informal workers, career counseling for the students of the excluded group, participation in literacy camps and other types of activities as specified and approved by the department.**
- A single report comprising three separate sections on (i) Final Project, (ii) Industry Visit and (iii) Community Engagement will have to be submitted within the deadline set by the Department/University.
- The list of electives to be offered in a particular semester would be decided by the Departmental Committee.
- Students from other departments can opt for the inter-disciplinary elective courses from the different areas by obtaining necessary permission from their concerned departments.
- The Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) shall be calculated as per extant university regulations.
- Issues relating to admission, attendance, examination, programme administration, etc. will be governed by the relevant policies, rules and regulations of the University.

AREA-WISE DISTRIBUTION OF COURSES

AREA	CORE COURSES		ELECTIVE COURSES	
	CODE	NAME	CODE	NAME
Area-1: Foundations of Management	MBA-1101	Management Process & Organisation Theory (MPOT)	MBAE-1108	Indian Ethos and Business Ethics (IEBE)
	MBA-1102	Managerial Economics (ME)	MBAME-3108	Management Principles and Practices (MPP) (Minor Elective)
	MBA-2101	Research Methodology (RM)		
	MBA-2102	Business Environment and Legislation (BEL)		
	MBA-2103	Managerial Communication and Skill Development (MCSD)		
	MBA-3105	Summer Internship Project (SIP)		
	MBA-4103	Comprehensive Report (CR)		
	MBA-4104	Community Engagement Course		
Area-2: Organisational Behaviour	MBA-1203	Organisational Behaviour (OB)	MBAE-1210	Corporate Success Behaviour (CSB)
			MBAE-2206	Organisational Change and Development (OCD)
			MBAE-2207	Leadership (LDP)
			MBAE-3206	Team Dynamics at Work (TDW)
			MBAME-3209	Group and Team Effectiveness (GTE) (Minor Elective)
Area-3: Strategic Management	MBA-3301	Introductory Strategic Management (ISM)	MBAE-1311	Corporate Governance (CG)
	MBA-4301	Entrepreneurship Development (ED)	MBAE-2308	Corporate Social Responsibility and Sustainability (CSRS)
	MBA-4302	International Business (IB)	MBAE-3307	Knowledge Management and Business Excellence (KMBE)

	MBA-1405	Fundamentals of Marketing Management (FMM)	MBAE-2409	Consumer Behaviour (CB)
Area-4: Marketing Management			MBAE-2410	Sales and Distribution Management (SDM)
			MBAE-2411	Rural Marketing Management (RMM)
			MBAE-2412	Industrial Marketing (INDM)
			MBAE-2413	Public Relations and Marketing (PRM)
			MBAE-3410	Integrated Marketing Communication(IMC)
			MBAE-3411	Voluntary Sector Marketing (VSM)
			MBAE-3412	Service Marketing (SVM)
			MBAE-3413	Strategic Marketing Management (SMM)
			MBAE-3414	Global Marketing Management (GMM)
			MBAE-4409	Retail Marketing (RTM)
			MBAE-4410	Brand Management (BM)
			MBAE-4411	Tourism Marketing (TM)
			MBAE-4412	Advertising and Sales Promotion Management (ASPM)
			MBAE-4413	Small Business Marketing (SBM)

AREA	CORE COURSES		ELECTIVE COURSES	
	CODE	NAME	CODE	NAME

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AREA-5: Financial Management	MBA-1504	Accounting for Managers (AFM)	MBAE-2509	Corporate Financial Reporting and Analysis (CFRA)
	MBA-3502	Corporate Finance (CF)	MBAE-2510	Security Analysis and Portfolio Management (SAPM)
			MBAE-2511	Project Finance and Management (PFM)
			MBAE-2512	Strategic Cost Management (SCM)
			MBAE-2513	Working Capital Management (WCM)
			MBAE-3510	Corporate Taxation (CT)
			MBAE-3511	Behavioural Finance (BF)
			MBAE-3512	Financial Econometrics (FE)
			MBAE-3513	Financial Derivatives (FD)
			MBAE-3514	Financial Markets (FM)
			MBAE-4509	Management of Financial Services (MFS)
			MBAE-4510	Management Accounting for Business Decisions (MABD)
			MBAE-4511	Merger, Acquisition and Corporate Restructuring (MACR)
			MBAE-4512	Entrepreneurial Finance and Valuation (EFV)
		MBAE-4513	Multinational Finance (MF)	

AREA-6: Human Resource Management	MBA-1606	Fundamentals of Human Resource Management (FHRM)	MBAE-2609	Human Resource Planning and Development (HRPD)
			MBAE-2610	Compensation and Benefits Management (CBM)
			MBAE-2611	Training and Development (T&D)
			MBAE-2612	Counselling Skills for Managers (CSM)
			MBAE-2613	Understanding Self: Indian Perspective

			(USIP)
		MBAE-3610	Performance Management (PM)
		MBAE-3611	Labour Legislation (LL)
		MBAE-3612	Employment Relations (ER)
		MBAE-3613	HRD: Strategies and Systems (HRDSS)
		MBAE-3614	Human Resource Information System (HRIS)
		MBAE-4609	Strategic Human Resource Management (SHRM)
		MBAE-4610	Human Capital Management (HCM)
		MBAE-4611	Contemporary Interventions in Human Resource Management (CIHRM)
		MBAE-4612	Global Human Resource Management (GHRM)
		MBAE-4613	Employer Branding (EB)

AREA	CORE COURSES		ELECTIVE COURSES	
	CODE	NAME	CODE	NAME

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Area-7: Systems, Operations & Decision Sciences	MBA-1707	Fundamentals of Production and Operations Management (FPOM)	MBAE-2709	Logistics and Supply Chain Management (LSCM)
	MBA-2704	Fundamentals of Computer Applications and Management Information System (FCAMIS)	MBAE-2710	Purchasing and Materials Management (PMM)
	MBA-2705	Quantitative Techniques in Management (QTM)	MBAE-2711	Production Planning and Control (PPC)
	MBA-3703	Operations Research (OR)	MBAE-2712	Business Process Reengineering (BPR)
	MBA-3704	Business Analytics (BA)	MBAE-2713	Managing E-Business (MEB)
			MBAE-3710	Decision Support System (DSS)
			MBAE-3711	Internet of Things (IoT)
			MBAE-3712	Systems Analysis and Design (SAD)
			MBAE-3713	Project Management (PROM)
			MBAE-3714	World Class Manufacturing (WCMFG)
			MBAE-4709	Advanced Operations Research (AOR)
			MBAE-4710	Total Quality Management (TQM)
			MBAE-4711	Database Management System (DBMS)
			MBAE-4712	Decision Models and Optimization (DMO)
		MBAE-4713	Smart Manufacturing (SMFG)	

Area-8: Emerging Areas			MBAE-4804	Tourism and Hospitality Management (THM)
			MBAE-4805	Health Care Management (HCM)
			MBAE-4806	Agri Business Management (ABM)
			MBAE-4807	Innovation Management (IM)
			MBAE-4808	Management of Rural Business (MRB)

MBA (TOURISM) Syllabus

The Programme of study for the MBA (Tourism) shall normally extend over a period of two academic years, each academic year comprising of two semesters, and each semester comprising of sixteen weeks of class work. No student shall normally be permitted to obtain Degree earlier than four semesters.

Medium of Instruction:

The medium of instruction shall be English for all subjects.

Credit details:

- A. There shall be three categories of Papers viz., Compulsory Papers, Specialization Papers, and Open Elective Papers.
- B. Dual Specialization will be offered to the students out of “Tour Packaging & Operation Management”, “Event Management”, “Hotel Management”. The combinations of Dual specializations to be offered to the students will be decided every year by the Departmental Committee after making a trade off between Market Demand & class load of the faculty. In each specialization a student will have to undertake a total of 3 papers under dual specialization, two papers in 3rd and one paper in 4th semester.
- C. Department will offer Open Elective Papers in 2nd and 3rd semester to the students. Students are required to undertake one paper each in both 2nd and 3rd semester. The open elective paper to be offered to the students will be decided every year by the Departmental Committee.
- D. The students shall compulsorily undertake the Practical Tourism during the 2nd semester classes (the exact period of the commencement of practical tourism will be announced by the department every year). The project report in 4th Semester will lead to a dissertation on the basis of 6 weeks training undertaken in a Travel & Tourism organization.
- E. Total credits of MBA (Tourism) Programme is 100

MBA (TOURISM) CREDIT DISTRIBUTION					
Category	Minimum Credit to be covered				Total Credit to be earned
	Semester I	Semester II	Semester III	Semester IV	
CORE PAPERS	28	20	08	08	64
SPECIALIZATION PAPERS	--	--	16	08	24
OPEN ELECTIVE PAPER	--	--	04	--	04
PROJECT REPORT	--	04	--	02	06
Including Community Engagement Program				+ 02	02
TOTAL	28	26	26	20	100

Evaluation:

- A. Each paper would have two components- the first being Internal Assessment Marks and the second being the Semester End Examination Marks. The Internal Assessment marks are based on continuous internal assessment. The total marks for the Internal Assessment would be based on the total credit awarded to the paper. Out of the total marks of 100 (4 Credit) for such a course, 20 marks shall be earmarked for continuous Internal Assessment and remaining 80 marks for the semester end examination. However, in case of project based papers, the distribution of marks will be 80 marks for Project Report and 20 marks for viva-voice. This paper in the 4th Semester will include Social Outreach Program carrying 02 credits.

FIRST SEMESTER

CORE PAPERS

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 101	Management Process & Organizational Behaviour	20	80	100	4	4
MBT- 102	Tourism Economics	20	80	100	4	4
MBT- 103	Tourism Concept & Impacts	20	80	100	4	4
MBT- 104	Indian History Art, Culture & Architecture	20	80	100	4	4
MBT- 105	Geography and International Tourism	20	80	100	4	4
MBT- 106	Transport in Travel & Tourism	20	80	100	4	4
MBT- 107	Communication Skill Development	10	40	50	2	2
MBT- 108	Tourism Resources of West Bengal	10	40	50	2	2

SECOND SEMESTER

CORE PAPERS

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 201	Tourism Products of India	20	80	100	4	4
MBT- 202	Travel Agency & Tour Operations Management	20	80	100	4	4
MBT- 203	Tourism Marketing	20	80	100	4	4
MBT- 204	Information Technology & Tourism	20	80	100	4	4

MBT- 205	Managerial Communication Skill Development	10	40	50	2	2
MBT- 206	Hotel Management	10	40	50	2	2

PROJECT

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 207	PRACTICAL TOURISM	20	80	100	4	4

THIRD SEMESTER

CORE PAPERS

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 301	Air Fares & Ticketing	20	80	100	4	4
MBT-302	Sustainable & Eco Tourism	20	80	100	4	4

OPEN ELECTIVE PAPERS

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 303	Computerized Reservation System	10	40	50	2	2
MBT- 304	Tour Guiding and Visitor Interpretation	10	40	50	2	2

SPECIALIZATION

Tour Packaging & Operation Management

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT-3101	INTRODUCTION TO TOUR PACKAGE OPERATION	20	80	100	4	4
MBT-3102	PLANNING FOR TOUR PACKAGING	20	80	100	4	4

Event Management

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT-3201	UNDERSTANDING EVENT	20	80	100	4	4
MBT-3202	MANAGING EVENT	20	80	100	4	4

Hotel Management

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT-3301	FRONT OFFICE & HOUSE KEEPING MANAGEMENT	20	80	100	4	4
MBT-3302	HOTEL OPERATION	20	80	100	4	4

Minor Elective Paper

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT-3501	Adventure Tourism	10	40	50	2	2
MBT-3502	Tourism Entrepreneurship	10	40	50	2	2

FOURTH SEMESTER

CORE PAPERS

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 401	Research Methodology	20	80	100	4	4
MBT- 402	Tourism Policy, Planning & Development	20	80	100	4	4

PROJECT

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 403	Project report & Grand Viva including Social Outreach Program	20	80	100	4	4

SPECIALIZATION

Tour Packaging & Operation Management

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 4101	MANAGING TOUR PACKAGE OPERATION	20	80	100	4	4

Event Management

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 4201	DESTINATION MARKETING	20	80	100	4	4

Hotel Management

Paper Code	Name of the Paper	Internal Mark	Semester end Examination Mark	Total Mark	Teaching Hour per Week	Credit
MBT- 4301	RESORT PLANNING & DEVELOPMENT	20	80	100	4	4

THE UNIVERSITY OF BURDWAN

DEPARTMENT OF COMPUTER SCIENCE

SYLLABUS FOR M. Sc. (COMPUTER SCIENCE) COURSE

- 1) Duration** : Two Years (Four Semesters)
- 2) Total Marks** : 1200 (300 + 300 + 300 +300)
- 3) Total Credit Points** : 96 (24 + 24 + 24 + 24)
- 4) Number of Papers** : Total Twenty Five, out of which, fourteen are Theoretical, eight Practical, One Term Paper, One Project Work and One Social Outreach Programm.
- 5) Distribution of Marks** : All Theoretical and Practical papers are of full marks 50, out of which, 40 marks for University Exam. & 10 marks for Sessional. Sessional marks of theoretical papers will come from two mid – term examinations of 10 marks each. For Term Paper 50 marks will be of University Exam. For Project Work paper full marks is 50, out of which, 25 (20 for University Exam and 5 for for Sessional marks) marks for social outreach program will be of University exam.
- 6) Duration of Univ. Exam** : Two Hours for Theoretical Papers and three Hours for Practical Papers.
- 7) Instruction Period** : In L-T-P pattern, ‘L’ lectures, ‘T’ tutorials, and, ‘2xP’ practical hours per week are needed for each paper. Unless otherwise specified, credit point of a paper will be: L + T + P. At least 50 hours are needed for each theory and practical paper. Two hours per week will be given for remedial purpose.
- 8) Semester Duration** : 16 Weeks.
-

Semester – III

Courses	(L-T-P)	Credits
MSCS-301: Compiler Design	(4-0-0)	4
MSCS-302: Discipline-centric Elective (E1)	(3-1-0)	4
MSCS-303: Term Paper: Minor Project	(4-0-0)	4
MSCS -304: Generic Elective (GE) Or MSWM-304	(2-0-0)	2
MSCS-305: Lab V (Compiler Design)	(0-0-4)	4
MSCS-306: Lab VI (Discipline-centric Elective : E1)	(0-0-4)	4
MSCS-307: Community Engagement Activities	(0-0-0)	2
Semester Credits		24

MSCS-302-Discipline-centric Elective (E1)

- A: Machine Learning
- B: Cryptography and Network Security
- C: Software Project Management
- D: Data Mining
- E: Object Technology using JAVA
- F: Soft Computing
- G: Theory of Computing
- H: May be opted from SWAYAM

MSCS-304-Generic Elective

- A: Internet and E-Commerce
 - B: Web Security
 - C: Introduction to Artificial Intelligence
 - D: Cryptography
 - E: Introduction to Programming
- Or
- F: MSWM-304 - May be opted from SWAYAM

Semester – IV

Courses	(L-T-P) Credits	
MSCS-401: Discipline-centric Elective (E2)	(4-0-0)	4
MSCS-402: Discipline-centric Elective (E3)	(4-0-0)	4
MSCS-403: Major Project	(4-0-0)	4
MSCS-404: Seminar and Grand Viva	(0-0-4)	4
MSCS-405: DE Lab VII(E2)	(0-0-4)	4
MSCS-406: DE Lab VIII(E3)	(0-0-4)	4
Semester Credits	24	
Cumulative Credits	96	

Discipline-centric Elective (E2)

A: Operation Research and Optimization

B: Model Checking

C: Bioinformatics

D: Internet of Things

E: Data Science

F: Deep Learning and NLP

Discipline-centric Elective (E3)

A: Mobile Computing

B: Computer Graphics & Multimedia

C: Real time system

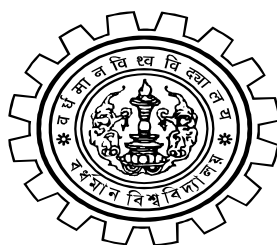
D: Image Processing

E: Block Chain Technology

F: Web Technology

Serial Number: 05

ENVIRONMENTAL SCIENCE
THE UNIVERSITY OF BURDWAN



M. Sc. SYLLABUS
[CHOICE BASED CREDIT SYSTEM]
[w. e. f. 2020- '21]

DEPARTMENT OF ENVIRONMENTAL SCIENCE
THE UNIVERSITY OF BURDWAN
BURDWAN-713104

COURSE STRUCTURE FOR M.Sc. IN ENVIRONMENTAL SCIENCE

SEMESTER- I (TOTAL MARKS: 300)

Course				Lect. h/week	Dur. of Exam (in h)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSES101	Core	T	Basic Ideas on Environment	4	2	10	40	50	4
MSES102	Core	T	Physical Environment	4	2	10	40	50	4
MSES103	Core	T	Environmental Biology	4	2	10	40	50	4
MSES104	Core	T	Environmental Microbiology	4	2	10	40	50	4
MSES105	Core	P	Practical on Physical Environment	8	4	10	40	50	4
MSES106	Core	P	Practical on Environmental Biology	8	4	10	40	50	4
							Total Credit	24	

Note: T- Theory; P- Practical; I.A.- Internal Assessment; E.T.- End Term

SEMESTER- II (TOTAL MARKS: 300)

Course				Lect. h/week	Dur. of Exam (in h)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSES201	Core	T	Life Processes & Ecotoxicology	4	2	10	40	50	4
MSES202	Core	T	Environmental Geoscience	4	2	10	40	50	4
MSES203	Core	T	Energy Resource & Environmental Statistics	4	2	10	40	50	4
MSES204	Core	T	Environmental Pollution & Degradation	4	2	10	40	50	4
MSES205	Core	P	Practical on Environmental Problems	8	4	10	40	50	4
MSES206	Core	P	Practical on Ecotoxicological Measurements	8	4	10	40	50	4
							Total Credit	24	

SEMESTER- III (TOTAL MARKS: 300)

Course				Lect. h/week	Dur. of Exam (in h)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSES301	Core	T	Biodiversity Conservation & Sustainable Development	4	2	10	40	50	4
MSES302	Core	T	Emerging Environmental Problems, Health Hazards & Genetic Engineering	4	2	10	40	50	4
MSES303	Core	T	Remote Sensing & GIS	4	2	10	40	50	4
MSES304	GE	T	Environmental Perspectives	2	2	05	20	25	2
MSWM304			or To be opted from SWYAM	--	--	--	--	--	2
MSES305-1	DE	P	Practical on RS & GIS, EIA & Diseases	8	4	10	40	50	4
MSES305-2	DE	T	Ecological Modelling and GIS for Environmental Applications	4	2	10	40	50	4
MSES305-3	DE	T	Ecotoxicology & Industrial Microbiology	4	2	10	40	50	4
MSES306-1	DE	T	To be opted from SWYAM	--	--	--	--	--	4
MSES306-2	DE	T	Forest Ecology and Oceanography	4	2	10	40	50	4
MSES307	Core	P	Community Engagement Activities	4	2	05	20	25	2
								Total Credit	24

GE: Generic Elective; DE: Discipline-centric Elective

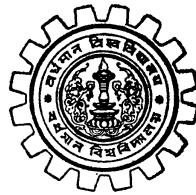
SEMESTER- IV (TOTAL MARKS: 300)

Course				Lect. h/week	Dur. of Exam (in h)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T.	Total	
MSES401	Core	T	Environmental Impact Assessment & Environmental Laws	4	2	10	40	50	4
MSES402	Core	T	Environmental Toxicology & Hazardous Wastes	4	2	10	40	50	4
MSES403	Core	T	Environmental Biotechnology	4	2	10	40	50	4
MSES404-1	DE	T	Environmental Issues, Economics & Environmental Management	4	2	10	40	50	4
MSES404-2	DE	T	Environmental Engineering and Science	4	2	10	40	50	4
MSES405-1	DE	P	Practical of Toxicological Testing	8	4	10	40	50	4
MSES405-2	DE	P	Practical of Spatial Data Analysis and Ecological Modelling	8	4	10	40	50	4
MSES406	Core	P	Dissertation Work	4	4	10	40	50	4
							Total Credit	24	

Serial Number: 6

**M Tech
in
Electronics and Communication
Engineering (Microwaves)**

SYLLABUS



**Department of Physics
The University of Burdwan
Golapbag, Burdwan-713104, West Bengal
Website: <http://www.buruniv.ac.in>
Email: mtece@buruniv.ac.in**

Seminar (MW 107 and MW 207):

Each student in Semesters I and II is required to deliver one seminar per week on any of the topics suggested by the department having 15 minutes for presentation and 5 minutes for discussion. The internal teachers of the course will evaluate the performance of the students. Such evaluations will be termed as “Continuous Assessment”.

Course Outcome for MW 107 and MW 207:

- To become able to design and prepare a presentation on assorted technical topics
- To gain the communication skill and confidence to present a topic before the audience
- To gain the skill on technical report writing

Comprehensive Viva Voce on Practical's (MW 108 and MW 208):

Students will be examined by a board of examiners on the practical training performed and the laboratory report during each of the semesters I and II.

Course Outcome for MW 108 and MW 208:

The skill and knowledge gained through practical training (includes design, simulation, fabrication and T&M) would be estimated.

Semester III

Paper Code	Paper	Credit	Marks	
			Univ. Exam	Total
MW 301	Project I	16	200	200
MW 302	Term Paper/ Minor Elective from AICTE Approved Departments	02	50	50
MW 303	Research Methodology and IPR <i>May be opted from SWAYAM</i> (https://swayam.gov.in/)	02	50	50
TOTAL		20	300	300

Semester IV

Paper Code	Paper	Credit	Marks	
			Univ. Exam	Total
MW 401	Project II	18	300	300
MW 402	Grand Viva-Voce	04	100	100
TOTAL		22	400	400

MW 301 and MW 302: Project I and Term Paper/ Minor Elective from AICTE Approved Departments:

The entire third and fourth semesters of one year duration are assigned for the project works at different institutions and laboratories of repute within the country including Burdwan University.

Department of Political Science
The University of Burdwan

Syllabus for the M.A. Degree in Political Science

(To be effective from the academic session 2020 – 2022)

Principles / Guidelines/ Rules
One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week. [UGC Guidelines on Adoption of CBCS]
Core Paper 75 credits
Departmental Optional courses / Major Electives 20 Credits
Inter-disciplinary Electives 4 Credits [Offered by other departments/SWAYAM platform as stipulated by the university regulations]
Community Engagement Course 2 Credits [Full Marks: 20+5=25]
Credit requirement for a PG Programme: 101 Credits
This syllabus contains 20 courses of 50 marks each with a total of 1000 marks and for Community Engagement Course there is an additional 20 marks. Total marks of this syllabus is 1020.
Each course has a nomenclature and an alpha-numeric code
Each student will have to take any two major elective courses both in Semester – III and in Semester – IV among three options in each major elective course.
Each student will have to take any one Interdisciplinary Electives in Semester – III mandatorily from other academic departments of the University of Burdwan/ SWAYAM platform.
All Core Courses and Major Elective Courses will have 5 Credits.
All Inter-disciplinary Electives will have 4 Credits.
Students of other departments, while opting for Inter-disciplinary Electives in Political Science, will have to get the approval of the Head of the Department.
As per University guidelines on the Restructuring of M.A. syllabus, "Students have to participate in the Community Engagement programmes/ activities of the department for the concerned year and follow it up with a written Report & Presentation and Viva-Voce. The main objectives are to develop an appreciation of rural culture, lifestyle and wisdoms among students, to learn about the states of various agricultural and rural development programmes, to understand causes for rural distress and poverty and explore solutions for the same and to apply class room knowledge of courses to field realities. Evaluation pattern would be as follows: Report writing: 20 marks + Internal: 05 marks= 25 [Full Marks]

Department of Political Science
The University of Burdwan

POL 303 B	III	Major Elective	MAPOL303B	Ethnic Politics and Nationhood in India	4+1
POL 303 C	III	Major Elective	MAPOL303C	India and Her Neighbours	4+1

POL 304 A	III	Major Elective	MAPOL304A	Issues of Citizencentric Administration in India	4+1
POL 304 B	III	Major Elective	MAPOL304B	Understanding Indian Politics	4+1
POL 304 C	III	Major Elective	MAPOL304C	India and the World	4+1
POL 305 A	III	Interdisciplinary Elective	MAPOL305A	Issues in Contemporary Political Theory	4 (L)
POL 305 B	III	Interdisciplinary Elective	MAPOL305B	Public Policy in India	4 (L)
POL 305 C	III	Interdisciplinary Elective	MAPOL305C	Politics of Human Rights	4 (L)
POL 400	IV	Core Paper	MAPOL400	Community Engagement	2 (Pr)
POL 401	IV	Core Paper	MAPOL401	State Formation and Political Regime	4+1
POL 402	IV	Core Paper	MAPOL402	Theories of International Relations	4+1
POL 403A	IV	Major Elective	MAPOL403A	Social Welfare Administration	4+1
POL 403 B	IV	Major Elective	MAPOL403B	India's Political Economy	4+1
POL 403 C	IV	Major Elective	MAPOL403C	Peace and Conflict Studies	4+1
POL 404 A	IV	Major Elective	MAPOL404A	Local Governance in India with Special Reference to West Bengal	4+1

Department of Political Science
The University of Burdwan

POL 404 B	IV	Major Elective	MAPOL404B	Social and Political Movements in India	4+1
POL 404 C	IV	Major Elective	MAPOL404C	International Law	4+1
POL 405	IV	Core Paper	MAPOL405	Project	4+1

M.A. (Political Science) Syllabus

First Semester

MAPOL101 [Core Paper]

Modern Indian Political Thought

1. Rammohun Roy: Liberal outlook
2. Bankim Chandra Chattopadhyay and Swami Vivekananda: Nationalism and Nation-building
3. Rabindranath Tagore and M.K. Gandhi: critique of western civilization and the state
4. Jawaharlal Nehru and Subhas Chandra Bose: democracy and socialism
5. Jaya Prakash Narayan: Socialist tradition
6. M.A. Jinnah : Two-Nation Theory
7. Savarkar: Hindutva
8. B.R. Ambedkar: Social Justice

MAPOL102 [Core Paper]

Liberal and Post Liberal Political Theory

1. Liberalism: various forms
2. Totalitarianism: Arendt and Talman
3. Liberty and Minimalist state: Hayek, Popper and Nozick
4. Theory of Justice: Rawls and Sen
5. Communitarianism: basic tenets; concept of civic republicanism
6. Multiculturalism: basic tenets; multiculturalism in the non-western world

Serial Number: 08

SYLLABUS FOR

M.A./M.Sc. PROGRAMME IN GEOGRAPHY

With effect from session 2020-22

CHOICE BASED CREDIT SYSTEM (CBCS)



**DEPARTMENT OF GEOGRAPHY
THE UNIVERSITY OF BURDWAN
PURBA BARDHAMAN– 713104
WEST BENGAL, INDIA**

SEMESTER III

Course				Lecture hour /Week			Duration of Examination (in hrs.)	Marks			Credit
Course code	Type	T/P	Name	L	T	P		I.A.	E.A.	Total	
				MSGG 301	Core	T	Social and Cultural Geography				4
MSGG 302	Core	T	Contemporary Geographical Issues in India	4	-	-	2	10	40	50	4
MSGG 303	Core	P	Statistical Techniques in Geographical Analysis	-	-	8	2	10	40	50	4
MSGG 304	GE	T	Geoinformatics/ Environmental Geography	2	-	-	1	5	20	25	2
MSGG 305	DE	T	Discipline centric Elective Theory	4	-	-	2	10	40	50	4
MSGG 306	DE	P	Discipline centric Elective Practical	-	-	8	2	10	40	50	4
MSGG 307	CE	P	Community Engagement Activities	-	-	4	2	5	20	25	2
Total Credit										24	

Abbreviation used: T/P → Theory/Practical; L/T/P → Lecture/Tutorial/Practical; I.A. → Internal Assessment; E.A. → End Term Assessment; GE → Generic elective; DE → Discipline-centric Elective; CE → Community Engagement Activities

SEMESTER IV

Course				Lecture hour /Week			Duration of Examination (in hrs.)	Marks			Credit
Course code	Type	T/P	Name	L	T	P		I.A.	E.T.	Total	
MSGG 401	Core	T	Geography of Development & Political Geography	4	-	-	2	10	40	50	4
MSGG 402	Core	T	Research Methodology	4	-	-	2	10	40	50	4
MSGG 403	Review of Literature on a topic based on DE	P	Review of Literature based on Discipline Centric Elective Course	-	-	8	2	10	40	50	4
MSGG 404	DE	T	Discipline centric Elective Theory	4	-	-	2	10	40	50	4
MSGG 405	DE	P	Discipline centric Elective Practical	-	-	8	2	10	40	50	4
MSGG 406	Dissertation	P	Dissertation	4	4	8	2	10	40	50	4
Total Credit											24

Abbreviation used: T/P → Theory/Practical; L/T/P → Lecture/Tutorial/Practical; I.A. → Internal Assessment; E.A. → End Term Assessment; DE → Discipline-centric Elective

Notes:

- **Core Course:** Every student will take only core courses in the Semester I and II. In the Semester III and IV students will take core courses along with the other courses.
- **Generic Elective Course (GE):** It is to be chosen from a pool of courses. Each Department is to offer at least one generic elective course. Students are not allowed to choose a course offered by his/her own Department. Student may opt a course from SWAYAM.
- **Community Engagement Activities:** Community Engagement Activities is compulsory. Department is to decide about its successful implementation and execution.
- **Discipline centric Elective Course (DE) (Optional):** Student will opt one of the following seven (7) Discipline centric Elective course in Semester III and IV.
 - A. Geomorphology
 - B. Soil and Agricultural Geography
 - C. Environmental Geography
 - D. Urban Geography
 - E. Regional Planning and Development
 - F. Natural Hazards and Disaster Management
 - G. Geography of Water Resources
- **Review of Literature on a topic based on DE:** This is on Review of Literatures of a topic of current research interests based on Discipline-centric Elective course.
- **Dissertation:** Students will submit one Dissertation work based on Discipline centric Elective Course in the Semester IV.

Serial Number: 09

DEPARTMENT OF ECONOMICS



UNIVERSITY OF BURDWAN

PG Syllabus – 2020-21 session onwards

(updated May 2022)

Blyswani

Preamble

The Department of Economics, University of Burdwan proposes to revise the syllabus for Post-Graduate studies in Economics leading to Masters degree, keeping in line with the updated CBCS curriculum at UG level, changing academic scenario and needs of both academics and job-market. The salient features of the syllabus are as follows:

- The PG syllabus shall have 1020 marks divided into 20 courses of 50 marks each and a Community Engagement Course of 20 marks (2 credits).
- Each paper of 50 marks shall be of 5 credits each except Interdisciplinary Elective which shall be of 4 credits.
- A candidate has to earn at least 101 credits to earn PG degree in Economics.
- The credits to be earned are as follows:

	<i>First Semester</i>	<i>Second Semester</i>	<i>Third Semester</i>	<i>Fourth Semester</i>
<i>Core Papers (compulsory)</i>	25	25	10	17 (incl. Community Engagement Course)
<i>Major Elective Papers (Departmental)</i>			10	10
<i>Interdisciplinary Elective Papers / Course from SWAYAM platform</i>			At least 4	

- There shall be two types of papers/courses: Core Course – A course which should compulsorily be studied by a candidate as a core-requirement is termed as a Core course. These are compulsory courses under the department concerned; Elective Course – Generally a course which can be chosen from a pool of courses and which may be very specific / specialized / advanced to the subject of study or which provides extended scope or enables exposure to some other discipline / subject / domain will be called an Elective Course. Elective courses are to be offered by the department of study (Departmental Electives or Major Electives) or by sister / related disciplines (Interdisciplinary Elective) or may be in the form of Course from SWAYAM platform.
- A minimum of 75 credits shall have to be earned from Departmental Core Courses and shall be Compulsory (marked with an * in the framework)
- A minimum of 20 credits shall have to be earned from Departmental Optional papers / Major Electives (marked with a # in the framework)
- A minimum of 4 credits shall have to be earned from Interdisciplinary Elective / Course from SWAYAM platform as stipulated by the university regulations
- **A minimum of 2 credit to be earned from Community Engagement Course as stipulated**
- For Semester-III, a student shall opt for Course from SWAYAM platform / Interdisciplinary Elective of at least 4 credits from other departments, subject to prior approval of the Department and University Authorities
- Semester wise division of marks:
 - Aggregate Marks: 1025
 - First Semester: 250 marks/25 credits (five courses each with 5 credits for 50 marks)
 - Second Semester: 250 marks/25 credits (five courses each with 5 credits for 50 marks)
 - Third Semester: 250 marks/24 credits (four courses each with 5 credits for 50 marks plus Interdisciplinary / SWAYAM course of 4 credits with 50 marks)
 - Fourth Semester: 275 marks/27 credits (five courses each with 5 credits for 50 marks plus one course with 2 credits for 25 marks)

▪ **Syllabus at a Glance**

<i>Semester</i>	<i>Courses</i>	<i>Remarks</i>
I	<ul style="list-style-type: none"> • Microeconomics-I (ECN 101)* • Macroeconomics-I (ECN 102)* • Development Economics-I (ECN 103)* • Mathematical Economics & Statistics (ECN104)* • Econometrics (ECN 105)* 	<i>All papers are Departmental Core Courses and Compulsory</i>
II	<ul style="list-style-type: none"> • Microeconomics-II (ECN 201)* • Macroeconomics-II (ECN 202)* • Development Economics-II (ECN 203)* • Basic Environmental Economics (ECN 204)* • Basin Financial Economics (ECN 205)* 	<i>All papers are Departmental Core Courses and Compulsory</i>
III	<ul style="list-style-type: none"> • Select Features of Indian Economy (ECN 301)* • International Economics (ECN 302)* • <u>Major Elective-I (ECN 303 A/B/C/D)#</u> • <u>Major Elective-II (ECN 304 A/B/C/D)#</u> • <u>One minor elective of at least 4 credits from other departments</u> • <i>Interdisciplinary Electives for Extra-departmental students[^]</i> <ul style="list-style-type: none"> ▪ <i>ECN 305A-Environment & Economy</i> ▪ <i>ECN 305B - Demography</i> ▪ <i>ECN 305C – Basic Econometrics</i> ▪ <i>ECN 305D – Indian Economy</i> ▪ <i>ECN 305E – Banking, Insurance & Finance</i> 	<p><u>Major Elective-I</u></p> <ul style="list-style-type: none"> • 303A: Advanced Econometrics • 303B: Agricultural Economics-I • 303C: Industrial Organisation • 303D: Spatial Econometrics <p><u>Major Elective-II</u></p> <ul style="list-style-type: none"> • 304A: Applied Econometrics-I • 304B: Agricultural Economics-II • 304C: Behavioural Economics • 304D: Data Analysis for Social Sciences
IV	<ul style="list-style-type: none"> • <u>Community Engagement Course of 2 credits (ECN 400)</u> • Growth & Planning (ECN 401)* • Public Economics (ECN 402)* • <u>Major Elective-III (ECN 403A/B/C/D)#</u> • <u>Major Elective-IV (ECN 404A/B/C/D)#</u> • <u>Computer Applications & Project (ECN 405)*</u> 	<p><u>Major Elective-III</u></p> <ul style="list-style-type: none"> • 403A: Advanced Financial Economics • 403B: Resource Economics & Sustainable Development • 403C: Law & Economics • 403D: Rural Development <p><u>Major Elective-IV</u></p> <ul style="list-style-type: none"> • 404A: Applied Econometrics-II • 404B: Economics of Climate Change & Energy • 404C: Economics of Social Capital • 404D: Game Theory & Information

* marked courses are Core courses and Compulsory;

marked courses are Major Electives and students have to choose from available options;

[^] marked courses are •Interdisciplinary Electives for Extra-departmental Students and departmental students will not be offered these courses;

Serial Number: 10

Department of Mass Communication
The University of Burdwan
Proposed Post Graduate (M.A.) Syllabus for session 2020-2022 onwards

M.A. in Mass Communication							
Course No	Course Status and Type	Course Title	Credit	Pattern of Teaching learning (hours per week)			Marks
				L	T	P	
First Semester [All courses are Departmental Core Courses and Compulsory]							
MC101	Core /TH	Introduction to Communication	5	4	1	0	40+10=50
MC102	Core /TH	Development of Media and Media Law	5	4	1	0	40+10=50
MC103	Core /TH	Advertising and Marketing Communication	5	4	1	0	40+10=50
MC104	Core/ TH	Public Relations & Corporate Communication	5	4	1	0	40+10=50
MC105	Core/ PR	Computer Application in Media	5	0	0	5	40+10=50
		Semester I Total	25				250
Second Semester [All courses are Departmental Core Courses and Compulsory]							
MC201	Core/ TH	International Communication and Globalization	5	4	1	0	40+10=50
MC202	Core/ TH	Reporting and Writing	5	4	1	0	40+10=50
MC203	Core/ TH	Editing and Designing	5	4	1	0	40+10=50
MC204	Core/ TH	Media Management and Economics	5	4	1	0	40+10=50
MC205	Core/ TH	Online Media	5	4	1	0	40+10=50
		Semester II Total	25				250
Third Semester [Students have to take 2 Compulsory Core Courses, 2 Major Electives (MC303A or B and MC304 A or B) and 1 Interdisciplinary Elective from other Departments/SWAYAM Platform]							
MC301	Core/TH	Communication Research	5	4	1	0	40+10=50
MC302	Core/TH	Development Communication	5	4	1	0	40+10=50
MC303A	Major Elective/ TH	Health Communication	5	4	1	0	40+10=50
MC303B		NGO and Advocacy Communication	5	4	1	0	40+10=50
MC304A	Major Elective/ TH	Women and Media	5	4	1	0	40+10=50
MC304B		Photo Journalism	5	4	1	0	40+10=50
MC305	Inter disciplinary Elective/TH	Media Culture and Society (For Students from other departments)[Students may opt for a 4 Credit course from SWAYAM Platform and can avail the option of credit transfer]	4	3	1	0	40+10=50
		Semester III Total	24				250

Fourth Semester [Students have to take 3 Compulsory Core Courses (MC-401, MC402, MC405), 2 Major Electives courses { Either MC- 403A or 403B and in case of MC- 404 any one from either A or B or C or D } and 1 Compulsory Community Engagement course (MC400)]							
MC400	Community Engagement Course /PR	Social Outreach Programme	2	0	0	2	10+10=20
MC401	Core/TH	Radio	5	4	1	0	40+10=50
MC402	Core/TH	Television	5	4	1	0	40+10=50
MC403A	Major Elective/TH	Film Studies: Indian Cinema	5	4	1	0	40+10=50
MC403B		Film Studies: World Cinema	5	4	1	0	40+10=50
MC404A	Major Elective/ PR	Radio Production	5	0	0	5	40+10=50
MC404B		Television Production	5	0	0	5	40+10=50
MC404C		Film Production	5	0	0	5	40+10=50
MC404D		Documentary Production	5	0	0	5	40+10=50
MC405	Core/PR	Dissertation	5	0	0	5	40+10=50
		Semester IV Total	27				270
Grand Total (For 4 Semesters)			101				1020

Serial Number: 11



ପଞ୍ଚମ୍ବରାଜୀ ଲଘୁତା ଉପାଧ୍ୟାୟାୟ
ଋଷିପତି, ପଞ୍ଚମ୍ବରାଜୀ
ପଞ୍ଚମ୍ବରାଜୀ - ଝରନା

M.A. In Santali
CBCS Syllabus
With effect from 2020-2021

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

The University of Burdwan
Department of Santali
PG Course Structure

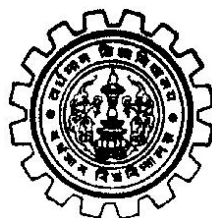
Semester	Course Code	Course Type	Course Status	Marks Distribution (End Sem. + Int. Asst)	Credit Value of the Course
Sem.-I	SANT-101	TH	Core Course	40+10=50	5
	SANT-102	TH	Core Course	40+10=50	5
	SANT-103	TH	Core Course	40+10=50	5
	SANT-104	TH	Core Course	40+10=50	5
	SANT-105	TH	Core Course	40+10=50	5
	Semester-I Total				250
Sem.-II	SANT-201	TH	Core Course	40+10=50	5
	SANT-202	TH	Core Course	40+10=50	5
	SANT-203	TH	Core Course	40+10=50	5
	SANT-204	TH	Core Course	40+10=50	5
	SANT-205	TH	Core Course	40+10=50	5
	Semester-II Total				250
Sem.-III	SANT-301	TH	Core Course	40+10=50	5
	SANT-302	TH	Core Course	40+10=50	5
	SANT303(A/B/C/D)	TH	Major Elective	40+10=50	5
	SANT304(A/B/C/D)	TH	Major Elective	40+10=50	5
	SANT305(A/B/C/D)	TH	Interdisciplinary Elective	40+10=50	4
	SANT305(A/B/C/D)	However, Students may opt for a 4 credit course from SWAYAM Platform and can avail the option of credit transfer.			
	Semester-III Total				250
Sem.-IV	SANT-400	PR	Community Engagement Course	20+5=25	2
	SANT-401	TH	Core Course	40+10=50	5
	SANT-402	TH	Core Course	40+10=50	5
	SANT403(A/B/C/D)	TH	Major Elective	40+10=50	5
	SANT404(A/B/C)	TH	Major Elective	40+10=50	5
	SANT-405	PR/Project	Core Course	40+10=50	5
Semester-IV Total				275	27
Program Total				1025	101

Serial Number: 12

DRAFT SYLLABUS

M. Sc. Course in Chemistry

To be effective from the session 2020-22



THE UNIVERSITY OF BURDWAN

BURDWAN 713 104

WEST BENGAL, INDIA

www.buruniv.ac.in

Semester IV

Course				Lect. Hour /week	Durati on of Exam (Hour)	Marks			Credit
Course code	Type	T/P	Name			I.A	E.T	Total	
MSCH401	Core	T	Physical Advance General	4 H	2 H	10	40	50	4
MSCH402	Core	T	Medicinal Chemistry	4 H	2 H	10	40	50	4
MSCH403-I	Floating	T	Inorganic Major-II	4 H	2 H	10	40	50	4
MSCH403-N	Floating	T	Nuclear Analytical Major-II	4 H	2 H				
MSCH403-O	Floating	T	Organic Major-II	4 H	2 H				
MSCH403-P	Floating	T	Physical Major-II	4 H	2 H				
MSCH404-I	DE	T	Inorganic Major-III	4 H	2 H	10	40	50	4
MSCH404-N	DE	T	Nuclear Analytical Major-III	4 H	2 H				
MSCH404-O	DE	T	Organic Major-III	4 H	2 H				
MSCH404-P	DE	T	Physical Major-III	4 H	2H				
MSCH405-I	DE	P	Inorganic Major-II Practical	8 H	4H	10	40	50	4
MSCH405-N	DE	P	Nuclear Analytical Major-II Practical	8 H	4H				
MSCH405-O	DE	P	Organic Major-II Practical	8 H	4H				
MSCH405-P	DE	P	Physical Major-II Practical	8 H	4H				
MSCH406-I	Project/ Term paper	N.A	Inorganic	4H	---	10	40	50	4
MSCH406-N	Project/ Term paper	N.A	Nuclear Analytical	4H	---	---			
MSCH406-O	Project/ Term paper	N.A	Organic	4H	---	---			
MSCH406-P	Project/ Term paper	N.A	Physical	4H	---	---			
					Total credit				24



The University of Burdwan

Dept. of Microbiology,

New CBCS Syllabus for M.Sc. Microbiology Course: Effective from 2020- 2022 session onwards.

Programme Employability of the M.Sc. Microbiology Syllabus

Modification of curriculum is carried out on a regular basis to cope with the latest development and discoveries in the field of Microbiology and to make the course effective and relevant to the local/ national and global developmental needs.

Microorganisms are omnipresent. The whole biosphere depends on the activities of microorganisms and they influence human society in countless ways. Role of microorganisms is indispensable in the field of medicine, agriculture, food & beverages, leather, space research, bioremediation, biomass production etc. Regular up gradation of the course curriculum is necessary to develop trained personnel to apply modern technologies and knowledge for exploiting microbes for mankind in a more meaningful way and to face the challenges in those fields. Students of this course will acquire knowledge not only on basic principles and techniques of bacteriology, virology, mycology, immunology and parasitology, but also will be familiar with the application of their knowledge to improve crop productivity, to discover novel and effective medicines against newly emerging deadly pathogens, to apply microbes for the development of fuel, for decreasing greenhouse gasses, for the production of cosmetics that protect skin from damaging UV rays and what not. To give them a preliminary idea about research, project work, seminar lecture and review writing are integral part of the curriculum. **Social outreach is a compulsory course to make the students familiar with the actual scenario of our society.** Through their laboratory courses they will be familiar with laboratory safety rules and will be expert in routine and specialized microbiological skills including accurately reporting statistically valid observations and analysis applicable to clinical, industrial and agricultural research. Hopefully, this course will make students able to communicate scientific concepts, experimental results and analytical arguments clearly and concisely, both verbally and in writing, making them eligible for higher studies, jobs in various sectors and entrepreneurship development in the field of Microbiology.

Program Outcome

On completion of the Post Graduate Degree Programme a student should be able to acquire the following outcome-

Subject knowledge-

Expected to acquire comprehensive knowledge and understanding of the subject studied in the Masters Programme which will make them eligible for higher studies, jobs in various sectors and entrepreneurship development in the field of study.

Research Related Skills

Semester III

Course				Lec t. Hr /we ek	Dur. of Exam (in H)	Marks			Credi t
Course code	Typ e	T/P	Name			I.A .	E. T	Tota l	
MSMI301	Cor e	T	Industrial Microbiology & Recombinant DNA Technology	4	2	10	40	50	4
MSMI302	Cor e	T	Agriculture & Environmental Microbiology	4	2	10	40	50	4
MSMI303	Cor e	P	Industrial Microbiology & Recombinant DNA Technology	8	6	10	40	50	4
MSMI304	GE	T	Introduction to General & Applied Microbiology	2	1	5	20	25	2
OR									
MSWM304	GE	T	May be obtained from SWAYAM					25	2
MSMI305-I	DE	P	Agriculture & Environmental Microbiology	8	6	10	40	50	4
OR									
MSMI305-II	DE	T	Advance Microbial genetics	4	2	10	40	50	4
MSMI306	DE	T	Food Microbiology, IPR, Biosafety & Bioethics	4	2	10	40	50	4
OR									
MSWM306	DE	T	May be obtained from SWAYAM					50	4
MSMI307	CE	P	Community Engagement Activities			5	20	25	2
Total credit									24

** CE: Compulsory Community Engagement Programme; DE: Discipline-centric Elective; GE: Generic elective.

Semester IV

Course				Lect. Hr /week	Dur. of Exam (in H)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T	Total	
MSMI401	CC	T	Immunology	4	2	10	40	50	4
MSMI402	CC	T	Medical Microbiology	4	2	10	40	50	4
MSMI403	CC	P	Immunology & Medical Microbiology	8	6	10	40	40	4
MSMI404-I	DE	P	Food Microbiology, IPR and Bio-safety	8	6	10	40	40	4
OR									
MSMI404-II	DE	T	Advance Agriculture Microbiology	4	2	10	40	50	4
MSMI405-I	DE	P	Review	4	--	10	40	50	4
OR									
MSMI405-II	DE	T	Advance Food Microbiology	4	2	10	40	50	4
MSMI406	CC	P	Project	4	---	10	40	50	4
					Total credit				24

DE: Discipline-centric Elective; GE: Generic elective.

THE UNIVERSITY OF BURDWAN

Restructuring of PG syllabus of Arabic under the Faculty of Arts (Under CBCS System) 2020

With effect from academic year 2020-2021

Semester	Course Code	Course Title	Course Type	Course Status	Credit Value of the Course	Marks Distribution (End Sem + Int. Asst.)
Semester-I	MAARB 101*	Pre-Islamic Arabic Literature	Theory	Core Course	5	40+10=50
	MAARB 102*	Arabic Literature During Islamic Period	Theory	Core Course	5	40+10=50
	MAARB 103*	Linguistics	Theory	Core Course	5	40+10=50
	MAARB 104*	Arabic Text and Applied Grammar	Theory	Core Course	5	40+10=50
	MAARB 105*	Translation: Theory and Practice*	Theory	Core Course	5	40+10=50
Semester-I Total:					25	250

Semester	Course Code	Course Title	Course Type	Course Status	Credit Value of the Course	Marks Distribution (End Sem + Int. Asst.)
Semester-II	MAARB 201*	Arabic Literature During Umayyad Period	Theory	Core Course	5	40+10=50
	MAARB 202*	Rhetoric & Prosody	Theory	Core Course	5	40+10=50
	MAARB 203*	Use of Language-I*	Theory	Core Course	5	40+10=50
	MAARB 204*	Arabic Literature in India	Theory	Core Course	5	40+10=50
	MAARB 205*	Specialized Translation*	Theory	Core Course	5	40+10=50
Semester-II Total:					25	250

Semester	Course Code	Course Title	Course Type	Course Status	Credit Value of the Course	Marks Distribution (End Sem + Int. Asst.)
Semester-III	MAARB 301*	Arabic Poetry During Abbasid Period	Theory	Core Course	5	40+10=50
	MAARB 302*	Arabic Prose During Abbasid Period	Theory	Core Course	5	40+10=50
	MAARB 303 A/B/C/D#	One of the Major Elective Course to be chosen from the following: a) Principles of Literary Criticism b) Teaching Methodology c) Development of Auto-Biography in Arabic literature d) Stylistics of Arabic Literature	Theory	Major Elective	5	40+10=50
MAARB 304 A/B/C/D#	One of the Major Elective Course to be chosen from the following: a) Literary Trends, Movements & Schools b) Communicative Arabic-1 c) Applied Criticism d) Development of Travel Literature in Arabic	Theory	Major Elective	5	40+10=50	

	MAARB 305 A/B/C/D^	One of the Minor Elective Course to be chosen from the following: a) Essential Arabic b) Contemporary Arab World (Social, Economical & Political Conditions) c) Arab Culture and Civilization d) A brief history of Arabic Literature	Theory	Interdisciplinary Elective	4	40+10=50
Semester-III Total:					24	250

Semester	Course Code	Course Title	Course Type	Course Status	Credit Value of the Course	Marks Distribution (End Sem + Int. Asst.)
Semester-IV	MAARB 400**	Community Engagement Course	PR	Community Engagement Course	2	20+5=25
	MAARB 401*	Modern Arabic Prose	Theory	Core Course	5	40+10=50
	MAARB 402*	Modern Arabic Poetry	Theory	Core Course	5	40+10=50
	MAARB 403 A/B/C/D#	One of the Major Elective Course to be chosen from the following: a) Arabic Novel & Short story b) Mahjar Literature c) Development of Arabic Journalism d) Arabic Play	Theory	Major Elective	5	40+10=50
	MAARB 404 A/B/C/D#	One of the Major Elective Course to be chosen from the following: a) Use of Language-II b) Communicative Arabic-II c) Consecutive Interpretation d) Andalusian & Ottoman Literature	Theory	Major Elective	5	40+10=50
	MAARB 405*	Dissertation Writing & Research Methodology	PR/Project & Theory	Core Course	5	30+10+10=50
Semester-IV Total:					27	275
Program Total					101	1025

- Medium of instruction will be in Arabic
- *Courses focus on employability & skill development



বর্ধমান বিশ্ববিদ্যালয়

স্নাতকোত্তর বাংলা পাঠক্রম

২০২০-২০২১ শিক্ষাবর্ষ থেকে প্রযোজ্য

মোট নম্বর : ১০২৫

মোট সেমেস্টার : ০৪

সমগ্র পাঠক্রমটি ২১টি কোর্সে বিভক্ত। এর মধ্যে ২০টি হল থিয়োরির কোর্স এবং ১টি (MA/BENG-400) কোর্স প্রাক্টিক্যাল (Community Engagement Course), যেটির নম্বর ২৫।

২০টি থিওরি কোর্স-এর প্রতিটির নম্বর ৫০। এই ২০টি থিওরি কোর্সের মধ্যে ১৫টি হবে কোর কোর্স, ৪টি হবে বিষয়ান্তর্গত ঐচ্ছিক কোর্স (Major Elective) এবং ১টি (MA/BENG-305) হবে বিষয়-বহির্ভূত ঐচ্ছিক (Interdisciplinary Elective)। কোনো শিক্ষার্থী সিলেবাসে থাকা চারটি বিষয়ান্তর্গত ঐচ্ছিক (Major Elective)-এর মধ্যে যে-কোনো একটি গ্রহণ করে ওই ঐচ্ছিকের চারটি কোর্স সমাপ্ত করতে বাধ্য থাকবে। প্রতিটি কোর্স দুটি এককে বিভক্ত হবে। প্রতিটি একক থেকে পরীক্ষার্থীকে ১০ নম্বরের দুটি প্রশ্নের উত্তর লিখতে হবে। প্রশ্নপত্রে প্রতিটি এককে প্রশ্নের সংখ্যা থাকবে ৪টি। অর্থাৎ প্রতিটি কোর্সের জন্য একক-প্রতি ২টি করে মোট ৪টি প্রশ্নের উত্তর লেখা বাধ্যতামূলক। প্রতিটি কোর্সে অভ্যন্তরীণ মূল্যায়নের জন্য ১০ নম্বর ধার্য হবে।

MA/BENG-305 কোর্সটি হল আন্তর্বিভাগীয় ঐচ্ছিক (Interdisciplinary Elective)। কোনো শিক্ষার্থী ইচ্ছা করলে বিভাগীয় সমিতির অনুমোদন-ক্রমে SWAYAM Platform থেকে ওই ঐচ্ছিক কোর্স গ্রহণ করতে পারবে।

Course Structure

Semester	Course-Code	Course Type	Course Status	Marks Distribution (End Sem + Int.Ass 40+10=50)	Credit Value
I	MA/BENG-101	Theory	Core Course	40+10=50	5
	MA/BENG-102	Theory	Core Course	40+10=50	5
	MA/BENG-103	Theory	Core Course	40+10=50	5
	MA/BENG-104	Theory	Core Course	40+10=50	5
	MA/BENG-105	Theory	Core Course	40+10=50	5
Sem I Total				250	25
II	MA/BENG-201	Theory	Core Course	40+10=50	5
	MA/BENG-202	Theory	Core Course	40+10=50	5
	MA/BENG-203	Theory	Core Course	40+10=50	5
	MA/BENG-204	Theory	Core Course	40+10=50	5
	MA/BENG-205	Theory	Core Course	40+10=50	5
Sem II Total				250	25
III	MA/BENG-301	Theory	Core Course	40+10=50	5
	MA/BENG-302	Theory	Core Course	40+10=50	5
	MA/BENG-303 (A/B/C/D/E)	Theory	Major Elective	40+10=50	5
	MA/BENG-304 (A/B/C/D/E)	Theory	Major Elective	40+10=50	5
	MA/BENG-305	Theory	Interdisciplinary Elective	40+10=50	4
However, students may opt for a 4 credit course from SWAYAM Platform and can avail the option of credit transfer.					
Sem III Total				250	24
IV	MA/BENG-400	Practical	Community Engagement Course	20+05=25	2
	MA/BENG-401	Theory	Core Course	40+10=50	5
	MA/BENG-402	Theory	Core Course	40+10=50	5
	MA/BENG-403 (A/B/C/D/E)	Theory	Major Elective	40+10=50	5
	MA/BENG-404 (A/B/C/D/E)	Theory	Major Elective	40+10=50	5
	MA/BENG-405	Project paper (প্রকল্প পত্র)	Core Course	40+10=50	5
Sem IV Total				270	27
Grand Total				1025	101

Common broad structure of syllabus under Choice Based Credit System (CBCS) for all Post Graduate Department of Studies under Faculty of Science, BU.

Revised Framing of M.Sc. Biotechnology CBCS Syllabus, 2020

Semester I

Course				Lect. Hr /week	Dur. of Exam (in H)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T	Total	
MSBT101 Unit I Unit II	Core	T	Biochemistry & Cell Biology	2T 2T	2H	10	20 20	50	4
MSBT102 Unit I Unit II	Core	T	Developmental Biology & Molecular Biology	4T 2T	3H	15	40 20	75	6
MSBT103 Unit I Unit II	Core	T	Analytical Techniques & Biostatistics and Computer Application	2T 2T	2H	10	20 20	50	4
MSBT104 Unit I Unit II	Core	P	Biochemistry & Cell Biology	4P 4P	4H	10	20 20	50	4
MSBT105	Core	P	Molecular biology	4P	2H	5	20	25	2
MSBT106 Unit I Unit II	Core	P	Analytical Techniques & Biostatistics and Computer Application	4P 4P	4H	10	20 20	50	4
					Total credit				24

T/P: Theory/Practical

Semester II

Course				Lect. Hr /week	Dur. of Exam (in H)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T	Total	
MSBT201 Unit I Unit II	Core	T	Immuno logy & Genetics	2T 2T	2H	10	20 20	50	4
MSBT202 Unit I Unit II	Core	T	Microbio logy & Industrial Applicati ons & Genetic Enginee ring	2T 2T	2H	10	20 20	50	4
MSBT203	Core	T	Bioinfor matics	2T	1H	5	20	25	2
MSBT204 Unit I Unit II	Core	T	IPR & Biosafety Bioentrep reneurshi p	2T 2T	2H	10	20 20	50	4
MSBT205 Unit I Unit II	Core	P	Immuno logy & Genetics	4P 4P	1H 1H		20 20	50	4
MSBT206 Unit I Unit II Unit III	Core	P	Microbiol ogy & Industrial Applicatio ns & Genetic Engineeri ng & Bioinfor matics	4P 4P 4P	1H 1H 1H	15	20 20 20	75	6
Total credit									24

Semester III

Course				Lect. Hr /week	Dur. of Exam (in H)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T	Total	
MSBT301 Unit I	Core	T	Bioprocess Engineering & Technology &	2T	2H	10	20	50	4
Unit II			Immunotec hnology				20		
MSBT302	Core	T	Molecular Virology	4T	2H	10	40	50	4
MSBT303 Unit I	Core	P	Bioprocess Engineerin g & Technology	4P	2H	10	20	50	4
Unit II			Immunotec hnology	4P			20		
MSBT304	GE	T	A general idea on Basic & Applied Biotechnol ogy	2T	1H	5	20	25	2
OR									
MSWM304	GE	T	One GE course may be opted from SWAYAM	2T	1H	5	20	25	2
MSBT305	DE	T	305-1/305- 2/305- 3/305-4	4T	2H	10	40	50	4
MSBT306	DE	P	306-1/306- 2/306- 3/306-4	8P	2H	10	40	50	4
MSBT307	CE	P	N.A.	N.A.	N.A.	5	20	25	2
Total credit									24

CE: Community Engagement Activities; DE: Discipline-centric Elective; GE: Generic elective

MSBT 305&306-1: Plant Biotechnology; 305&306 -2 : Animal Biotechnology

MSBT 305&306 -3: Microbial Biotechnology; 305&306 -4: Computer Skills for Biological Research

***MSWM304- One GE course may be opted from SWAYAM**

Semester IV

Course				Lect. Hr /week	Dur. of Exam (in H)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T	Total	
MSBT401	Core	T	Proteomics	4T	2H	10	40	50	4
MSBT402	Core	T	Genomics	4T	2H	10	40	50	4
MSBT403	Review of Literature on Project topic and Seminar presentation	P	N.A.	4	---	10	40	50	4
MSBT404	DE	T	404-1/404-2/404-3/404-4	4T	2H	10	40	50	4
MSBT405	DE	P	405-1/405-2/405-3/405-4	8P	2H	10	40	50	4
MSBT406	Project/ Term paper	P	N.A.	4	---	10	40	50	4
Total credit									24

MSBT404&405 -1 : Advanced Plant Biotechnology : 404&405-2: Advanced Animal Biotechnology
 MSBT404&405-3: Advanced Microbial Biotechnology: 404&405-4: Advanced Bioinformatics

Serial Number: 17

**Department of Botany
THE UNIVERSITY OF BURDWAN**



**M. Sc. SYLLABUS SEMESTER SYSTEM [CHOICE BASED CREDIT SYSTEM]
[w. e. f. 2020- '21]**

Prepared by The Department of Botany
The University of Burdwan
Burdwan 713104

Semester IV

Course			Lect. Hour/Week	Duration of the Exam (in Hour)	Marks			Credi t	
Course code	Type/C at.	T/ P			Name	I.A.	E.T		Total
MSBO401	Core	T	Genetics, Plant Breeding & Biostatistics	4T	2	10	40	50	4
MSBO402	Core	T	Cell Biology & Bioinformatics	4T	2	10	40	50	4
MSBO403	Core (Floati ng)	P	Unit I: Genetics, Plant Breeding & Biostatistics Unit II: Cell Biology & Bioinformatics	4T	2	10	40	50	4
MSBO 404-1	DE	T	1. Plant Physiology and Biochemistry	4T	2	10	40	50	4
404-2			2. Applied and Molecular Mycology and Plant Pathology						
404-3			3. Microbiology						
404-4			4. Plant Genetics and Biotechnology						
404-5			5. Taxonomy of Angiosperms and Biosystematics						
404-6			6. Phycology						
MSBO 405-1	DE	P	1. Plant Physiology and Biochemistry	4P	4	10	40	50	4
405-2			2. Applied and Molecular Mycology and Plant Pathology						
405-3			3. Microbiology						
405-4			4. Plant Genetics and Biotechnology						
405-5			5. Taxonomy of Angiosperms and Biosystematics						
405-6			6. Phycology						
MSBO406	Project / Term paper	P	Based on DE	4P		10	40	50	4
Total Credit									24

Serial Number: 18

SYLLABUS

M.A in Sociology



DEPARTMENT OF SOCIOLOGY
THE UNIVERSITY OF BURDWAN
NEW COMPOSITE BUILDING, GOLAPBAG,
RAJBATI, BURDWAN 713104,
WEST BENGAL, INDIA

2020

TO BE INTRODUCED FROM THE SESSION 2020-21

SOC- 304B	Major Elective	Sociology of Medicine and Health	50	5	0	0	0
SOC- 305A	Minor Elective	Sociology of Culture	50	4	0	0	0
SOC- 305B	Minor Elective	Sociology of Social Exclusion	50	4	0	0	0
		Total Credit	(250)	24	0	0	0

FOURTH SEMESTER

Course No	Course Type	Course Title	Marks	Credit	Credit Distribution		
SOC- 400	Compulsory	Community Engagement Course	20	2	0	0	0
SOC- 401	Core	Postmodern, Postcolonial and Structuration Theories	50	5	0	0	0
SOC- 402	Core	Sociology of Globalisation, Modernity and Post-modernity	50	5	0	0	0
SOC- 403A	Major Elective	Rural and Urban Sociology	50	5	0	0	0
SOC- 403B	Major Elective	Sociology of Science and Technology	50	5	0	0	0
SOC- 404A	Major Elective	Social Work and NGO Management	50	5	0	0	0
SOC- 404B	Major Elective	Society, Culture and Counselling	50	5	0	0	0
SOC- 405	Core	Project Work	50	5	0	0	0
		Total Credit	(270)	27			
		All Total Credit	1020	101			

Serial Number 19

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 III [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 301	Core	T	Biochemistry and Toxicology	4T	2T	10	40	50	4
MSZO 302	Core	T	Histology-Histochemistry and Comparative Anatomy	4T	2T	10	40	50	4
MSZO 303 (Unit I)	Core	P	Biochemistry and Toxicology	4P	2P	10	20	25	2
MSZO 303 (Unit II)	Core	P	Histology-Histochemistry and Comparative Anatomy	4P	2P	10	20	25	2
MSZO 304Z	GE	T	Applied Zoology	2T	1T	05	20	25	2
MSZO 305*	DE	T	Discipline-centric Elective	4T	2T	05	40	50	4
MSZO 306**	DE	P	Discipline-centric Elective	8P	4P	05	40	50	4
MSZO 307	CE	T/P	Community Engagement ##	N.A.	N.A.	05	20	25	2
Total credit									24

T/P: Theory/Practical

CE: Community Engagement Activities; DE: Discipline-centric Elective; GE: Generic elective
***Discipline-centric Elective (Students need to take any one of these Discipline-centric Electives)**

1. AQUACULTURE AND FISHERIES (COURSE CODE: MSZO 305-DE1)
2. ECOLOGY AND ENVIRONMENTAL BIOLOGY (COURSE CODE: MSZO 305-DE2)
3. ENTOMOLOGY (COURSE CODE: MSZO 305-DE3)
4. MOLECULAR BIOLOGY AND GENETICS (COURSE CODE: MSZO 305-DE4)
5. PARASITOLOGY AND MICROBIOLOGY (COURSE CODE: MSZO 305-DE5)

**COURSE CODE: MSZO 306-DE1, 306-DE2, 306-DE3, 306-DE4, and 306-DE5

##Community Engagement: Based on Discipline-centric Elective

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:

1. 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.
2. Marks distribution for each paper will be as follows:
 - a. 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
 - b. 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*
 - c. 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