

Department of Botany

Academic Calendar
Session: 2024 - 2025



Rishi Bankim Chandra College for Women
East Kanthal Para, Naihati
24 Parganas (North), W.B.

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: BOTANY (HONOURS)

SEMESTER - I (NEP)

COURSE: MAJOR (DSC)

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 st Semester (Major) = Hons.	DS 1T (5)	Microbiology	30	MB	<ul style="list-style-type: none"> • Commencement of Semester-I classes July' 24 • Puja vacation October' 24 • Semester-I Exam. – December' 24 • Winter Recess December' 24
	BOTDSC101T (3) Microbiology (30) & Phycology (20)	Phycology	20	SN	
	BOTDSC101P (2) Microbiology (5+5+15) & Phycology (5+5+15)	Microbiology		SD	
		Phycology		SN	
	SEC 1	Mushroom Cultivation Technique	30	SD	

SUBJECT: BOTANY (GENERAL)

SEMESTER - I (NEP)

COURSE: MINOR 1 (MA I)/CORE

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (Minor / Core) = Gen.	BOTMIN101T/ BOTCOR101T FM = 50	Biodiversity (Microbes, Algae, Fungi & Phytopathology)	30	SN	<ul style="list-style-type: none"> • Commencement of Semester-I classes July' 24 • Puja vacation October' 24 • Semester-I Exam. – December' 24 • Winter Recess December' 24
	Phycology, Microbiology, Mycology, Phytopathology, Archigoniata	Biodiversity (Archegoniate, Bryophytes, Pteridophytes, Gymnosperms)		RM	
	BOTMIN101P/ BOTCOR101P FM=50	Biodiversity (Microbes, Algae, Fungi, Phytopathology, Bryophyte, Pteridophyte, Gymnosperms)	RM+SN+MD (Group Wise)		

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: LIFE SCIENCE		SEMESTER - I (NEP)		COURSE: MULTI DISCIPLINARY COURSE	
Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester	MDC 1	Molecular Biology & Biotechnology	08	SD	<ul style="list-style-type: none">• Commencement of Semester-I classes July' 24• Puja vacation October' 24• Semester-I Exam. – December' 24• Winter Recess December' 24
		Botany	09		

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: BOTANY (HONOURS)

SEMESTER – II (NEP)

COURSE: MAJOR (DSC)

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (Major) = Hons.	DSC 2 (5) BOTDSC202T (3) Mycology (25) & Phytopathology (25)	Mycology	25	MB	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 25 • Summer Recess May' 25- June' 25 • Semester-II Exam.- June' 25
		Phytopathology	25	AKS	
	BOTDSC202P Mycology & Phytopathology (5+5+15) Internal Assessment (5+5+15)	Mycology		SN	
		Phytopathology		AKS	
	SEC 2	Tissue Culture Technique & Micropropagation	30	SD	

SUBJECT: BOTANY (GENERAL)

SEMESTER - II (NEP)

COURSE: MINOR 2 (MA II)/CORE

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (Minor / Core) = Gen.	BOTMIN202T/ BOTCOR202T FM = 50 Plant Ecology & Taxonomy	Unit 1,2,7,8,9,10,11	50	RM	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 25 • Summer Recess May' 25- June' 25 • Semester-II Exam.- June' 25
		Unit 3,4,5,6		AKS	
	BOTMIN202P/ BOTCOR202P FM = 50 (20+30) Plant Ecology & Taxonomy	All		RM+SN (Group Wise)	

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: LIFE SCIENCE SEMESTER - II (NEP) COURSE: MULTI DISCIPLINARY COURSE

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
2nd Semester	MDC 2	Molecular Biology & Biotechnology	08	SD	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January' 25 • Summer Recess May' 25-June' 25 • Semester-IV Exam. – June' 25
		Botany	09		

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: BOTANY (HONOURS)

SEMESTER - III (NEP)

COURSE: MAJOR (DSC)

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 rd Semester (Major) = Hons.	DSC3 (5) BOTDSC303T Archegoniate (Bryophyte & Pteridophyte)	Bryophytes	25	MB	<ul style="list-style-type: none"> • Commencement of Semester-III classes July' 24 • Puja vacation October' 24 • Semester-III Exam.- December' 24 • Winter Recess December' 24
		Pteridophytes	25	RM	
	DSC3 (5) BOTDSC303P Archegoniate (Bryophyte & Pteridophyte) (10+10+30) 1 long excursion	Bryophytes		SD	
		Pteridophytes		RM	

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: BOTANY (GENERAL)

SEMESTER - III (NEP)

COURSE: MINOR 3 (MA III)/CORE

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 rd Semester (Minor / Core) = Gen.	BOTMIN303T/ BOTCOR303T FM = 50 Plant Anatomy & Embryology	Unit 1,2,3,4,5	50	RM	<ul style="list-style-type: none"> • Commencement of Semester-III classes July' 24 • Puja vacation October' 24 • Semester-III Exam. – December' 24 • Winter Recess December' 24
		Unit 6,7,8		AKS	
	BOTMIN303P/ BOTCOR303P Plant Anatomy & Embryology (10+10+30)	All	AKS+RM+ SN (Group Wise)		
	SEC 3	Mushroom Cultivation Technique	30	SD	

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: LIFE SCIENCE SEMESTER - III (NEP) COURSE: MULTI DISCIPLINARY COURSE

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester	MDC 3	Molecular Biology & Biotechnology	08	SD	<ul style="list-style-type: none">• Commencement of Semester-I classes July' 24• Puja vacation October' 24• Semester-I Exam. – December' 24• Winter Recess December' 24
		Botany	09		

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: BOTANY (HONOURS) SEMESTER – IV (NEP)

COURSE: MAJOR (DSC)

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks	
4 th Semester (Major) = Hons.	DSC 4 (5) BOTDSC404T Archegoniate II (Gymnosperms, Paleobotany, Palynology) FM = 50	Gymnosperms	20	MB	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January' 25 • Summer Recess May' 24-June' 25 • Semester-IV Exam.- June' 25 	
		Paleobotany	15	SN		
		Palynology	15	MB		
	DSC 4 (5) BOTDSC404P Archegoniate II (Gymnosperms, Paleobotany, Palynology) FM = 50	Gymnosperms, Paleobotany, Palynology 1 long excursion				MB + SN
	DSC 5 (5) BOTADSC405T (Economic Botany, Ethnobotany, Pharmacognosy) FM = 50	Economic Botany	25	SD+SN		
		Ethnobotany	15	RM		
		Pharmacognosy	10	RM		
	DSC 5 (5) BOTADSC405P (Economic Botany, Ethnobotany, Pharmacognosy) FM = 50	Economic Botany		SN		
		Pharmacognosy		RM		
	DSC 6 (5) BOTADSC406T (Plant Anatomy, Embryology) FM = 50	Plant Anatomy	40	SD		
		Embryology	10	AKS		
	DSC 6 (5) BOTADSC406P (Plant Anatomy, Embryology) FM = 10+10+30	Plant Anatomy		SD		
		Embryology		AKS		
	DSC 7 (5) BOTADSC407T (Morphology, Plant Systematics) FM = 50	Morphology & Plant Systematics	50	RM		
DSC 7 (5) BOTADSC407P (Morphology, Plant Systematics) FM = 50	Morphology & Plant Systematics Excursion to BSI, Local (2), Different Ecological Zones (2)		RM			

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SUBJECT: BOTANY (GENERAL)

SEMESTER - IV (NEP)

COURSE: MINOR 4 (MA IV)/CORE

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (Minor / Core) = Gen.	BOTCOR404T FM = 50 Plant Physiology & Metabolism	Plant Physiology & Metabolism	50	MD	<ul style="list-style-type: none">• Commencement of Semester-II classes January' 25• Summer Recess May' 25- June' 25• Semester-II Exam.- June' 25
	BOTCOR404T FM = 5+20+25 Plant Physiology & Metabolism	Plant Physiology & Metabolism		MD	
	SEC 4	Tissue Culture Technique & Micropropagation	30	SD	

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SUBJECT: LIFE SCIENCE SEMESTER - IV (NEP) COURSE: MULTI DISCIPLINARY COURSE

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
4 th Semester	MDC 4	Molecular Biology & Biotechnology	08	SD	<ul style="list-style-type: none"> • Commencement of Semester-I classes July' 25 • Puja vacation October' 25 • Semester-I Exam. – December' 25 • Winter Recess December' 25
		Botany	09		

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: BOTANY (HONOURS)

SEMESTER – V (CBCS)

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
5th Semester (Honours)	BOTACOR11T Reproductive Biology of Angiosperms	Introduction, Reproductive development, Anther & Pollen Biology, Ovule	30	MB	<ul style="list-style-type: none"> • Commencement of Semester-V classes July' 24 • Puja vacation October' 24 • Semester-V Exam.– December' 24 • Winter Recess December' 24
		Pollination & Fertilization, Self Incompatibility, Embryo, Endosperm, & Seeds, Polyembryony & Apomixis	30	AKS	
	BOTACOR11P Reproductive Biology of Angiosperms	Reproductive Biology of Angiosperms	60	MB	
	BOTACOR12T Plant Physiology	Plant Physiology	60	MD	
	BOTACOR12P Plant Physiology	Plant Physiology	60	MD	
	BOTADSE01T Natural Resource Management	Natural Resources, Sustainable utilizations, Land, water, Forest	30	SN	
		Biological Resources, Energy, Contemporary practices in Resource Management, National & International efforts in Resource Management & Conservation	30	RM	
	BOTADSE01P Natural Resource Management	Estimation of Solid Waste, Measurement of dominance woody species	08	SN	
		Collection of data on vegetation of specific area, Calculation & analysis of ecological footprint	16	RM	
	BOTADSE03T Industrial & Environmental Microbiology	Industrial & Environmental Microbiology	60	SD	
BOTADSE03P Industrial & Environmental Microbiology	Industrial & Environmental Microbiology	10	RM+SN		

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: BOTANY (GENERAL)

SEMESTER – V (CBCS)

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
5 th Semester (General)	BOTGDSE01T Cell & Molecular Biology	Cell & Molecular Biology	60	SD	<ul style="list-style-type: none">• Commencement of Semester-V classes July' 24• Puja vacation October' 24• Semester-V Exam. – December' 24• Winter Recess December' 24
	BOTGDSE01P Cell & Molecular Biology	Study of Mitosis & Meiosis, Preparation of Karyotype & Ideogram Rest of the Syllabus	32	SD	

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ACADEMIC CALENDAR FOR THE YEAR 2024-2025

SUBJECT: BOTANY (HONOURS)

SEMESTER – VI (CBCS)

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6th Semester (Honours)	BOTACOR13T Plant Metabolism	Plant Metabolism	60	MD	<ul style="list-style-type: none"> • Commencement of Semester-VI classes January' 25 • Summer Recess May' 25 - June' 25 • Semester-VI Exam.- June' 25
	BOTACOR13P Plant Metabolism	Plant Metabolism	60	MD	
	BOTACOR14T Plant Biotechnology	Plant Tissue Culture	16	AKS	
		Vectors	10	MD	
		Rest of the Syllabus	34	SD	
	BOTACOR14P Plant Biotechnology	Plant Biotechnology	60	SD	
	BOTADSE04T Analytical Techniques in Plant Sciences	Imaging & Related Techniques	15	RM	
		Cell Fractionation, Radioisotopes, Spectrophotometry, Chromatography, Characterization of Proteins & nucleic Acids	30	SD	
		Biostatistics	15	SN	
	BOTADSE04P Analytical Techniques in Plant Sciences	Microscopy Techniques, Preparation of permanent slides	16	RM	
		Rest of the Syllabus	44	SD	
	BOTADSE06T Biostatistics	Biostatistics	60	SN	
BOTADSE06P Biostatistics	Biostatistics	20	SN		

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SUBJECT: BOTANY (GENERAL)

SEMESTER – VI (CBCS)

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
6 th Semester (General)	BOTADSE04T Analytical Techniques in Plant Sciences	Imaging & Related Techniques	15	RM	<ul style="list-style-type: none">• Commencement of Semester-VI classes January' 25• Summer Recess May' 25-June' 25• Semester-VI Exam. – June' 25
		Cell Fractionation, Radioisotopes, Spectrophotometry, Chromatography, Characterization of Proteins & nucleic Acids	30	SD	
		Biostatistics	15	SN	
	BOTADSE04P Analytical Techniques in Plant Sciences	Microscopy Techniques, Preparation of permanent slides	16	RM	
		Rest of the Syllabus	44	SD	