

Department of Botany

Academic Calendar
Session: 2019 - 2020



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

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: BOTANY (HONOURS)

SEMESTER - I

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 st Semester (Honours)	BOTACOR01T Phycology & Microbiology	Microbiology & Phycology	60	MB	<ul style="list-style-type: none"> • Commencement of Semester-I classes July'19 • Puja vacation October'19 • Semester-I Exam.– December'19 • Winter Recess December'19
	BOTACOR01P Phycology & Microbiology	Microbiology & Phycology	60	SN	
	BOTACOR02T Biomolecules & Cell Biology	Biomolecules	30	MD	
		Cell Biology	30	SD	
	BOTACOR02P Biomolecules & Cell Biology	Biomolecules	15	SN	
		Cell Biology	45	SD	

SUBJECT: BOTANY (GENERAL)

SEMESTER - I

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (General)	BOTGCOR01T Biodiversity	Microbes, Introduction to Archegoniate, Bryophyte, Pteridophyte	30	SD	<ul style="list-style-type: none"> • Commencement of Semester-I classes July'19 • Puja vacation October'19 • Semester-I Exam.– December'19 • Winter Recess December'19
		Algae, Fungi, Gymnosperms	30	MD	
	BOTGCOR01P Biodiversity	Microbes, Algae, Fungi, Bryophyte, Pteridophyte, Gymnosperms	60	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: BOTANY (HONOURS)

SEMESTER - II

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (Honours)	BOTACOR03T Mycology & Phyto Pathology	Mycology	36	MB	<ul style="list-style-type: none"> • Commencement of Semester-II classes January'20 • Summer Recess May'20-June'20 • Semester-II Exam.- June'20
		Symbiotic Association, Applied Mycology & Phyto Pathology	24	AKS	
	BOTACOR03P Mycology & Phyto Pathology	Mycology	30	SN	
		Phyto Pathology	30	AKS	
	BOTACOR04T Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	
	BOTACOR04P Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	

SUBJECT: BOTANY (GENERAL)

SEMESTER - II

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (General)	BOTGCOR02T Plant Ecology & Taxonomy	Ecology, Taxonomy	40	RM	<ul style="list-style-type: none"> • Commencement of Semester-II classes January'20 • Summer Recess May'20-June'20 • Semester-II Exam.- June'20
		Ecology	20	AKS	
	BOTGCOR02P Plant Ecology & Taxonomy	Ecology	20	SN	
		Taxonomy	40	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: BOTANY (HONOURS)

SEMESTER – III

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 rd Semester (Honours)	BOTACOR05T Morphology & Anatomy of Angiosperms	Morphology & Adaptive and Protective Systems of Angiosperms	18	SN	<ul style="list-style-type: none"> • Commencement of Semester-III classes July'19 • Puja vacation October'19 • Semester-III Exam. – December'19 • Winter Recess December'19
		Anatomy of Angiosperms	42	RM	
	BOTACOR05P Morphology & Anatomy of Angiosperms	Morphology & Anatomy of Angiosperms	60	RM	
	BOTACOR06T Economic Botany	Economic Botany	60	MB	
	BOTACOR06P Economic Botany	Economic Botany	60	RM	
	BOTACOR07T Genetics	Genetics	60	AKS	
	BOTACOR07P Genetics	Genetics	60	AKS	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

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ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: BOTANY (GENERAL)

SEMESTER - III

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (General)	BOTGCOR03T/ BOTHGEC03T Plant Anatomy & Embryology	Tissues, Adaptive & Protective Systems	16	MD	<ul style="list-style-type: none"> • Commencement of Semester-III classes July'19 • Puja vacation October'19 • Semester-III Exam. – December'19 • Winter Recess December'19
		Organs & Secondary Growth	12	SD	
		Embryology	32	AKS	
	BOTGCOR03P/ BOTHGEC03P Plant Anatomy & Embryology	Plant Anatomy & Embryology	60	AKS+RM +SD (Group Wise)	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: BOTANY (HONOURS)

SEMESTER - IV

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (Honours)	BOTACOR08T Molecular Biology	Nucleic Acids, Structures of DNA & RNA, Replication of DNA	24	MB	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January'20 • Summer Recess May'20-June'20 • Semester-IV Exam. – June'20
		Central Dogma, Genetic Code, Transcription, Processing & Modification of RNA, Translation	36	AKS	
	BOTACOR08P Molecular Biology	Molecular Biology	60	SD	
	BOTACOR09T Plant Ecology & Phyto Geography	Introduction, Soil, Water, Light, Temperature, Wind, Fire, Biotic Interactions	24	SN	
		Population Ecology, Plant Communities, Ecosystem, Functional Aspects of Ecosystem, Phyto Geography	36	AKS	
	BOTACOR09P Plant Ecology & Phyto Geography	Plant Ecology & Phyto Geography	60	SN	
	BOTACOR10T Plant Systematics	Plant Systematics	60	RM	
	BOTACOR10P Plant Systematics	Plant Systematics	60	RM	
BOTSSEC02M Ethnobotany	Ethnobotany	30	RM		

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ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: BOTANY (GENERAL)

SEMESTER - IV

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	BOTGCOR04T/ BOTHGEC04T Plant Physiology & Metabolism	Plant Water Relationship, Translocation in Phloem, Photosynthesis, Respiration, Nitrogen Metabolism	36	MD	<ul style="list-style-type: none">• Commencement of Semester-IV classes January '20• Summer Recess May '20-June '20• Semester-IV Exam.- June '20
		Mineral Nutrition, Enzymes, Plant Growth Regulators, Plant Response to Light & Temperature	24	SD	
	BOTGCOR04P/ BOTHGEC04P Plant Physiology & Metabolism	Plant Physiology & Metabolism	60	MD+SD +SN (Group Wise)	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

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ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: BOTANY (HONOURS)

SUBJECT CODE: BOTA

PART III

PAPER VII, VIII, IX & X

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
3 rd Year/Part III (Honours)	Paper - VII	Plant Physiology	50	MD	<ul style="list-style-type: none"> • Commencement of third year classes July /August' 19 • Pujya vacation October' 19/ Winter Recess December' 19 • Part-III Test Exam. Jan'20 / Test Result Feb'20 / Form Fill Up (Part-III) Mar'20 • Part-III Exam. April-May'20/ Summer Recess May-June '20
		Pharmacognosy	20	RM	
		Biotechnology	15	MB	
	Paper -VIII	Cell Biology, Genetics, Plant Breeding, Biometry	80	MB	
	Paper - IX (Practical)	Plant Physiology, Biochemistry	75	MD	
		Pharmacognosy	30	RM	
	Paper - X (Practical)	Cytology	69	SD	
		Biometry	30	MB	

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ACADEMIC CALENDAR FOR THE YEAR 2019-2020

SUBJECT: BOTANY (GENERAL)

SUBJECT CODE: BOTG

PART III

PAPER IV & V

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
3 rd Year/Part III (General)	Paper –IV	Mushroom, Measurement of Central Tendency, Plant Tissue Culture	15	MB	<ul style="list-style-type: none"> • Commencement of third year classes July /August '19 • Puja vacation October '19/ Winter Recess December '19 • Part-III Test Exam. Jan '20 / Test Result Feb '20 / Form Fill Up (Part-III) Mar '20 • Part-III Exam. April-May '20/ Summer Recess May-June '20
		Plant breeding, Recombinant DNA Technology, Bioinformatics	12	SD	
		Biofertilizer, Pharmacognosy	10	AKS	
	Paper – V (Practical)	Bacterial Staining, Biometry, Medicinal Plants	36	MB	

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Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (HONOURS)

SEMESTER - I

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 st Semester (Honours)	BOTACOR01T Phycology & Microbiology	Microbiology	21	MB	<ul style="list-style-type: none"> • Commencement of Semester-I classes July'20 • Puja vacation October-November'20 • Semester-I Exam.- December'20 • Winter Recess December'20
		Phycology	39	SN	
	BOTACOR01P Phycology & Microbiology	Microbiology	15	MB	
		Phycology	45	SN	
	BOTACOR02T Biomolecules & Cell Biology	Biomolecules	30	MD	
		Cell Biology	30	SD	
	BOTACOR02P Biomolecules & Cell Biology	Biomolecules	15	SN	
		Cell Biology	45	SD	

SUBJECT: BOTANY (GENERAL)

SEMESTER - I

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (General)	BOTGCOR01T Biodiversity	Microbes	10	SD	<ul style="list-style-type: none"> • Commencement of Semester-I classes July'20 • Puja vacation October-November'20 • Semester-I Exam.- December'20 • Winter Recess December'20
		Algae	12	SN	
		Fungi	12	MD	
		Introduction to Archegoniate, Bryophyte, Pteridophyte, Gymnosperms	26	RM	
	BOTGCOR01P Biodiversity	Microbes, Algae, Fungi, Bryophyte, Pteridophyte, Gymnosperms	60	RM+SN (Group Wise)	

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ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (HONOURS)

SEMESTER - II

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (Honours)	BOTACOR03T Mycology & Phyto Pathology	Mycology	36	MB	<ul style="list-style-type: none"> • Commencement of Semester-II classes January'21 • Summer Recess May'21-June'21 • Semester-II Exam.- June'21
		Symbiotic Association, Applied Mycology & Phyto Pathology	24	AKS	
	BOTACOR03P Mycology & Phyto Pathology	Mycology	30	SN	
		Phyto Pathology	30	AKS	
	BOTACOR04T Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	
	BOTACOR04P Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	

SUBJECT: BOTANY (GENERAL)

SEMESTER - II

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (General)	BOTGCOR02T Plant Ecology & Taxonomy	Ecology, Taxonomy	40	RM	<ul style="list-style-type: none"> • Commencement of Semester-II classes January'21 • Summer Recess May'21-June'21 • Semester-II Exam.- June'21
		Taxonomy	20	AKS	
	BOTGCOR02P Plant Ecology & Taxonomy	Ecology	20	SN	
		Taxonomy	40	RM	

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ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (HONOURS)

SEMESTER - III

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 rd Semester (Honours)	BOTACOR05T Morphology & Anatomy of Angiosperms	Morphology & Adaptive and Protective Systems of Angiosperms	18	SN	<ul style="list-style-type: none"> • Commencement of Semester-III classes July'20 • Puja vacation October'20-November'20 • Semester-III Exam. – December'20 • Winter Recess December'20
		Anatomy of Angiosperms	42	RM	
	BOTACOR05P Morphology & Anatomy of Angiosperms	Morphology & Anatomy of Angiosperms	60	RM	
	BOTACOR06T Economic Botany	Origin of Cultivated Plants, Cereals, Legumes, Sources of Sugar & Starches, Spices	32	MB	
		Sources of Oils & Fats, Natural Rubber, Drug yielding Plants, Timber Plants, Fibres	28	SD	
	BOTACOR06P Economic Botany	Economic Botany	60	RM	
	BOTACOR07T Genetics	Genetics	60	AKS	
	BOTACOR07P Genetics	Mitosis & Meiosis, Photograph & Permanent slide showing of abnormal stages	45	SD	
		Biometry & Rest of the Genetics	15	AKS	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

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ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (GENERAL)

SEMESTER -III

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (General)	BOTGCOR03T/ BOTHGEC03T Plant Anatomy & Embryology	Tissues, Adaptive & Protective Systems	16	MD	<ul style="list-style-type: none"> • Commencement of Semester-III classes July'20 • Puja vacation October'20- November'20 • Semester-III Exam. – December'20 • Winter Recess December'20
		Organs, Secondary Growth, Structural organization of flower	20	RM	
		Embryology	24	AKS	
	BOTGCOR03P/ BOTHGEC03P Plant Anatomy & Embryology	Plant Anatomy & Embryology	60	AKS+RM +SN (Group Wise)	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

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ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (HONOURS)

SEMESTER - IV

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (Honours)	BOTACOR08T Molecular Biology	Nucleic Acids, Structures of DNA & RNA, Replication of DNA	24	MB	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January '21 • Summer Recess May '21 - June '21 • Semester-IV Exam. - June '21
		Central Dogma, Genetic Code, Transcription, Processing & Modification of RNA, Translation	36	AKS	
	BOTACOR08P Molecular Biology	Molecular Biology	60	SD	
	BOTACOR09T Plant Ecology & Phyto Geography	Introduction, Soil, Water, Light, Temperature, Wind, Fire	20	SN	
		Biotic Interactions, Ecosystem	06	MB	
		Population Ecology, Plant Communities, Functional Aspects of Ecosystem, Phyto Geography	32	AKS	
	BOTACOR09P Plant Ecology & Phyto Geography	Plant Ecology & Phyto Geography	60	SN	
	BOTACOR10T Plant Systematics	Plant Systematics	60	RM	
	BOTACOR10P Plant Systematics	Plant Systematics	60	RM	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (GENERAL)

SEMESTER - IV

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	BOTGCOR04T/ BOTHGEC04T Plant Physiology & Metabolism	Plant Water Relationship, Translocation in Phloem, Photosynthesis, Respiration, Nitrogen Metabolism	36	MD	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January '21 • Summer Recess May '21 - June '21 • Semester-IV Exam. – June '21
		Mineral Nutrition, Enzymes, Plant Growth Regulators, Plant Response to Light & Temperature	24	SD	
	BOTGCOR04P/ BOTHGEC04P Plant Physiology & Metabolism	Plant Physiology & Metabolism	60	MD+SD +SN (Group Wise)	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (HONOURS)

SEMESTER - V

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'20 • Puja vacation October'20-November'20 • Semester-V Exam. – December'20 • Winter Recess December'20
		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	Bioreactor/Fermenters & Fermentation Processes, Microbes & Quality of Environment	18	MD	
		Rest of the Syllabus	42	SD	
	BOTADSE03P Industrial & Environmental Microbiology	Industrial & Environmental Microbiology	10	MD	

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ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (GENERAL)

SEMESTER - V

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'20• Puja vacation October'20-November'20• Semester-V Exam. – December'20• Winter Recess December'20
	BOTGDSE01P Cell & Molecular Biology	Cell & Molecular Biology	30	SD	

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ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (HONOURS)

SEMESTER - VI

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'21 • Summer Recess May'21-June'21 • Semester-VI Exam.- June'21
	BOTACOR13P Plant Metabolism	Plant Metabolism	60	MD	
	BOTACOR14T Plant Biotechnology	Plant Tissue Culture	16	AKS	
		Rest of the Syllabus	44	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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ACADEMIC CALENDAR FOR THE YEAR 2020-2021

SUBJECT: BOTANY (GENERAL)

SEMESTER - VI

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'21• Summer Recess May'21 - June'21• Semester-VI Exam. – June'21
		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	

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SUBJECT: BOTANY (HONOURS)

SEMESTER - I

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 st Semester (H)	BOTACOR01T Phycology & Microbiology	Microbiology	21	MB	<ul style="list-style-type: none"> • Commencement of Semester-I classes July'21 • Puja vacation October'21 • Semester-I Exam. – December'21 • Winter Recess December'21
		Phycology	39	SN	
	BOTACOR01P Phycology & Microbiology	Microbiology	15	MB	
		Phycology	45	SN	
	BOTACOR02T Biomolecules & Cell Biology	Biomolecules	30	MD	
		Cell Biology	30	SD	
	BOTACOR02P Biomolecules & Cell Biology	Biomolecules	15	SN	
		Cell Biology	45	SD	

SUBJECT: BOTANY (GENERAL)

SEMESTER - I

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (General)	BOTGCOR01T Biodiversity	Microbes	10	SD	<ul style="list-style-type: none"> • Commencement of Semester-I classes July'21 • Puja vacation October'21 • Semester-I Exam. – December'21 • Winter Recess December'21
		Algae	12	SN	
		Fungi	12	MD	
		Introduction to Archegoniate, Bryophyte, Pteridophyte, Gymnosperms	26	RM	
	BOTGCOR01P Biodiversity	Microbes, Algae, Fungi, Bryophyte, Pteridophyte, Gymnosperms	60	RM+SN (Group Wise)	

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SUBJECT: BOTANY (HONOURS)

SEMESTER - II

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (Honours)	BOTACOR03T Mycology & Phyto Pathology	Mycology	36	MB	<ul style="list-style-type: none"> • Commencement of Semester-II classes January'22 • Summer Recess May'22-June'22 • Semester-II Exam.- June'22
		Symbiotic Association, Applied Mycology & Phyto Pathology	24	AKS	
	BOTACOR03P Mycology & Phyto Pathology	Mycology	30	SN	
		Phyto Pathology	30	AKS	
	BOTACOR04T Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	
	BOTACOR04P Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	

SUBJECT: BOTANY (GENERAL)

SEMESTER - II

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (General)	BOTGCOR02T Plant Ecology & Taxonomy	Ecology, Taxonomy	40	RM	<ul style="list-style-type: none"> • Commencement of Semester-II classes January'22 • Summer Recess May'22-June'22 • Semester-II Exam.- June'22
		Taxonomy	20	AKS	
	BOTGCOR02P Plant Ecology & Taxonomy	Ecology	20	SN	
		Taxonomy	40	RM	

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SUBJECT: BOTANY (HONOURS)

SEMESTER - III

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 rd Semester (Honours)	BOTACOR05T Morphology & Anatomy of Angiosperms	Morphology & Adaptive and Protective Systems of Angiosperms	18	SN	<ul style="list-style-type: none"> • Commencement of Semester-III classes July'21 • Puja vacation October'21 • Semester-III Exam. – December'21 • Winter Recess December'21
		Anatomy of Angiosperms	42	RM	
	BOTACOR05P Morphology & Anatomy of Angiosperms	Morphology & Anatomy of Angiosperms	60	RM	
	BOTACOR06T Economic Botany	Origin of Cultivated Plants, Cereals, Legumes, Sources of Sugar & Starches, Spices	32	MB	
		Sources of Oils & Fats, Natural Rubber, Drug yielding Plants, Timber Plants, Fibres	28	SD	
	BOTACOR06P Economic Botany	Economic Botany	60	RM	
	BOTACOR07T Genetics	Mendelian Genetics, Fine Structure of Genes, Population Genetics	28	SD	
		Rest of the Syllabus	32	AKS	
	BOTACOR07P Genetics	Mitosis & Meiosis, Photograph & Permanent slide showing of abnormal stages	45	SD	
		Biometry & Rest of the Genetics	15	AKS	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: BOTANY (GENERAL)

SEMESTER -III

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (General)	BOTGCOR03T/ BOTHGEC03T Plant Anatomy & Embryology	Tissues, Adaptive & Protective Systems	16	MD	<ul style="list-style-type: none"> • Commencement of Semester-III classes July'21 • Puja vacation October'21 • Semester-III Exam.- December'21 • Winter Recess December'21
		Organs, Secondary Growth, Structural organization of flower	20	RM	
		Embryology	24	AKS	
	BOTGCOR03P/ BOTHGEC03P Plant Anatomy & Embryology	Plant Anatomy & Embryology	60	AKS+RM +SN (Group Wise)	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: BOTANY (HONOURS)

SEMESTER - IV

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (Honours)	BOTACOR08T Molecular Biology	Nucleic Acids, Structures of DNA & RNA, Replication of DNA	24	MB	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January'22 • Summer Recess May'22-June'22 • Semester-IV Exam.- June'22
		Central Dogma, Genetic Code, Transcription, Processing & Modification of RNA, Translation	36	AKS	
	BOTACOR08P Molecular Biology	Molecular Biology	60	SD	
	BOTACOR09T Plant Ecology & Phyto Geography	Introduction, Soil, Water, Light, Temperature, Wind, Fire	20	SN	
		Biotic Interactions, Ecosystem	06	MB	
		Population Ecology, Plant Communities, Functional Aspects of Ecosystem, Phyto Geography	32	AKS	
	BOTACOR09P Plant Ecology & Phyto Geography	Plant Ecology & Phyto Geography	60	SN	
	BOTACOR10T Plant Systematics	Plant Systematics	60	RM	
	BOTACOR10P Plant Systematics	Plant Systematics	60	RM	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: BOTANY (GENERAL)

SEMESTER - IV

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	BOTGCOR04T/ BOTHGEC04T Plant Physiology & Metabolism	Plant Water Relationship, Translocation in Phloem, Photosynthesis, Respiration, Nitrogen Metabolism	36	MD	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January '22 • Summer Recess May '22-June '22 • Semester-IV Exam. – June '22
		Mineral Nutrition, Enzymes, Plant Growth Regulators, Plant Response to Light & Temperature	24	SD	
	BOTGCOR04P/ BOTHGEC04P Plant Physiology & Metabolism	Plant Physiology & Metabolism	60	MD+SD +SN (Group Wise)	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: BOTANY (HONOURS)

SEMESTER - V

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'21 • Puja vacation October'21 • Semester-V Exam. – December'21 • Winter Recess December'21
		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	MD		

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: BOTANY (GENERAL)

SEMESTER - V

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'21• Puja vacation October'21• Semester-V Exam. – December'21• Winter Recess December'21
	BOTGDSE01P Cell & Molecular Biology	Cell & Molecular Biology	30	SD	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: BOTANY (HONOURS)

SEMESTER - VI

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'22 • Summer Recess May'22-June'22 • Semester-VI Exam. – June'22
	BOTACOR13P Plant Metabolism	Plant Metabolism	60	MD	
	BOTACOR14T Plant Biotechnology	Plant Tissue Culture	16	AKS	
		Rest of the Syllabus	44	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	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2021-2022

SUBJECT: BOTANY (GENERAL)

SEMESTER - VI

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'22• Summer Recess May'22-June'22• Semester-VI Exam.- June'22
		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	

Department of Botany

Academic Calendar
Session: 2022 - 2023



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

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (HONOURS)

SEMESTER - I

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 st Semester (H)	BOTACOR01T Phycology & Microbiology	Microbiology	21	MB	<ul style="list-style-type: none"> • Commencement of Semester-I classes July'22 • Puja vacation October'22 • Semester-I Exam. – December'22 • Winter Recess December'22
		Phycology	39	SN	
	BOTACOR01P Phycology & Microbiology	Microbiology & Phycology	60	SN	
	BOTACOR02T Biomolecules & Cell Biology	Biomolecules	30	MD	
		Cell Biology	30	SD	
	BOTACOR02P Biomolecules & Cell Biology	Biomolecules	15	MD	
Cell Biology		45	SD		

SUBJECT: BOTANY (GENERAL)

SEMESTER - I

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (G)	BOTGCOR01T Biodiversity	Microbes & Algae	22	SN	<ul style="list-style-type: none"> • Commencement of Semester-I classes July'22 • Puja vacation October'22 • Semester-I Exam. – December'22 • Winter Recess December'22
		Fungi	12	MD	
		Introduction to Archegoniate, Bryophyte, Pteridophyte, Gymnosperms	26	RM	
	BOTGCOR01P Biodiversity	Microbes, Algae, Fungi, Bryophyte, Pteridophyte, Gymnosperms	60	RM+SN (Group Wise)	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (HONOURS)

SEMESTER - II

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (Honours)	BOTACOR03T Mycology & Phyto Pathology	Mycology	36	MB	<ul style="list-style-type: none"> • Commencement of Semester-II classes January'23 • Summer Recess May'23-June'23 • Semester-II Exam.- June'23
		Symbiotic Association, Applied Mycology & Phyto Pathology	24	AKS	
	BOTACOR03P Mycology & Phyto Pathology	Mycology	30	SN	
		Phyto Pathology	30	AKS	
	BOTACOR04T Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	
	BOTACOR04P Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	

SUBJECT: BOTANY (GENERAL)

SEMESTER - II

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (General)	BOTGCOR02T Plant Ecology & Taxonomy	Ecology, Taxonomy	40	RM	<ul style="list-style-type: none"> • Commencement of Semester-II classes January'23 • Summer Recess May'23-June'23 • Semester-II Exam.- June'23
		Taxonomy	20	AKS	
	BOTGCOR02P Plant Ecology & Taxonomy	Ecology	20	SN	
		Taxonomy	40	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (HONOURS)

SEMESTER - III

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 rd Semester (Honours)	BOTACOR05T Morphology & Anatomy of Angiosperms	Morphology & Adaptive and Protective Systems of Angiosperms	18	SN	<ul style="list-style-type: none"> • Commencement of Semester-III classes July'22 • Puja vacation October'22 • Semester-III Exam. – December'22 • Winter Recess December'22
		Anatomy of Angiosperms	42	RM	
	BOTACOR05P Morphology & Anatomy of Angiosperms	Morphology & Anatomy of Angiosperms	60	RM	
	BOTACOR06T Economic Botany	Origin of Cultivated Plants, Cereals, Legumes, Sources of Sugar & Starches, Spices	32	MB	
		Sources of Oils & Fats, Natural Rubber, Drug yielding Plants, Timber Plants, Fibres	28	SN	
	BOTACOR06P Economic Botany	Economic Botany	60	RM	
	BOTACOR07T Genetics	Mendelian Genetics, Fine Structure of Genes, Population Genetics	28	SD	
		Rest of the Syllabus	32	AKS	
	BOTACOR07P Genetics	Mitosis & Meiosis, Photograph & Permanent slide showing of abnormal stages	45	SD	
		Biometry & Rest of the Genetics	15	AKS	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (GENERAL)

SEMESTER -III

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (General)	BOTGCOR03T/ BOTHGEC03T Plant Anatomy & Embryology	Tissues, Adaptive & Protective Systems	16	MD	<ul style="list-style-type: none"> • Commencement of Semester-III classes July'22 • Puja vacation October'22 • Semester-III Exam.- December'22 • Winter Recess December'22
		Organs, Secondary Growth, Structural organization of flower	20	RM	
		Embryology	24	AKS	
	BOTGCOR03P/ BOTHGEC03P Plant Anatomy & Embryology	Plant Anatomy & Embryology	60	AKS+RM +SN (Group Wise)	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (HONOURS)

SEMESTER - IV

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (Honours)	BOTACOR08T Molecular Biology	Nucleic Acids, Structures of DNA & RNA, Replication of DNA	24	MB	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January'23 • Summer Recess May'23-June'23 • Semester-IV Exam.- June'23
		Central Dogma, Genetic Code, Transcription, Processing & Modification of RNA, Translation	36	AKS	
	BOTACOR08P Molecular Biology	Molecular Biology	60	SD	
	BOTACOR09T Plant Ecology & Phyto Geography	Introduction, Soil, Water, Light, Temperature, Wind, Fire	20	SN	
		Biotic Interactions, Ecosystem	06	MB	
		Population Ecology, Plant Communities, Functional Aspects of Ecosystem, Phyto Geography	32	AKS	
	BOTACOR09P Plant Ecology & Phyto Geography	Plant Ecology & Phyto Geography	60	SN	
	BOTACOR10T Plant Systematics	Plant Systematics	60	RM	
	BOTACOR10P Plant Systematics	Plant Systematics	60	RM	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (GENERAL)

SEMESTER - IV

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	BOTGCOR04T/ BOTHGEC04T Plant Physiology & Metabolism	Plant Water Relationship, Translocation in Phloem, Photosynthesis, Respiration, Nitrogen Metabolism	36	MD	<ul style="list-style-type: none">• Commencement of Semester-IV classes January'23• Summer Recess May'23-June'23• Semester-IV Exam. - June'23
		Mineral Nutrition, Enzymes, Plant Growth Regulators, Plant Response to Light & Temperature	24	SD	
	BOTGCOR04P/ BOTHGEC04P Plant Physiology & Metabolism	Plant Physiology & Metabolism	60	MD+SD +SN (Group Wise)	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (HONOURS)

SEMESTER - V

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'22 • Puja vacation October'22 • Semester-V Exam. – December'22 • Winter Recess December'22
		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	MD		

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (GENERAL)

SEMESTER - V

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'22• Puja vacation October'22• Semester-V Exam. – December'22• Winter Recess December'22
	BOTGDSE01P Cell & Molecular Biology	Study of Mitosis & Meiosis, Preparation of Karyotype & Ideogram	20	SD	
		Rest of the Syllabus	12	SN	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (HONOURS)

SEMESTER - VI

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'23 • Summer Recess May'23-June'23 • Semester-VI Exam. – June'23
	BOTACOR13P Plant Metabolism	Plant Metabolism	60	MD	
	BOTACOR14T Plant Biotechnology	Plant Tissue Culture	16	AKS	
		Rest of the Syllabus	44	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	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2022-2023

SUBJECT: BOTANY (GENERAL)

SEMESTER - VI

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'23• Summer Recess May'23-June'23• Semester-VI Exam.- June'23
		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	

Department of Botany

Academic Calendar
Session: 2018 - 2019



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

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2018-2019

SUBJECT: BOTANY (HONOURS) SEMESTER - I SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
1 st Semester (Honours)	BOTACOR01T Phycology & Microbiology	Microbiology	21	MB	<ul style="list-style-type: none"> • Commencement of Semester-I classes July' 18 • Puja vacation October' 18 • Semester-I Exam.- December' 18 • Winter Recess December' 18
		Phycology	39	LS	
	BOTACOR01P Phycology & Microbiology	Microbiology	21	MD	
		Phycology	39	LS	
	BOTACOR02T Biomolecules & Cell Biology	Biomolecules (Unit 1 & 3)	26	LS	
		Biomolecules (Unit 2) & Cell Biology	34	SD	
	BOTACOR02P Biomolecules & Cell Biology	Biomolecules	15	MD	
		Cell Biology	45	SD	

SUBJECT: BOTANY (GENERAL) SEMESTER - I SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (General)	BOTGCOR01T Biodiversity	Microbiology, Introduction to Archigoniate	12	SD	<ul style="list-style-type: none"> • Commencement of Semester-I classes July' 18 • Puja vacation October' 18 • Semester-I Exam.- December' 18 • Winter Recess December' 18
		Algae	12	LS	
		Fungi	12	MD	
		Bryophyte, Pteridophyte, Gymnosperms	24	RM	
	BOTGCOR01P Biodiversity	Microbiology, Algae, Fungi	30	LS	
		Bryophyte, Pteridophyte, Gymnosperms	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2018-2019

SUBJECT: BOTANY (HONOURS)

SEMESTER - II

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (Honours)	BOTACOR03T Mycology & Phyto Pathology	Mycology	36	MB	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 19 • Summer Recess May' 19- June' 19 • Semester-II Exam. – June' 19
		Symbiotic Association, Applied Mycology & Phyto Pathology	24	SD	
	BOTACOR03P Mycology & Phyto Pathology	Mycology & Phyto Pathology	60	MD	
	BOTACOR04T Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	
	BOTACOR04P Archegoniate	Bryophyte, Pteridophyte, Gymnosperms	60	MB	

SUBJECT: BOTANY (GENERAL)

SEMESTER -II

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (General)	BOTGCOR02T Plant Ecology & Taxonomy	Ecology, Taxonomy	44	RM	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 19 • Summer Recess May' 19- June' 19 • Semester-II Exam. – June' 19
		Taxonomy	16	SD	
	BOTGCOR02P Plant Ecology & Taxonomy	Ecology	20	SD	
		Taxonomy	40	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2018-2019

SUBJECT: BOTANY (HONOURS)

SUBJECT CODE: BOTA

PART II

PAPER IV, V & VI

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
2 nd Year/Part II (Honours)	Paper - IV	Morphology & Palynology, Taxonomy of Angiosperms	60	RM	<ul style="list-style-type: none"> • Commencement of second year classes August/ September ' 18 • Puja vacation October' 18 / Winter Recess December' 18 • Part-II Exam. . March' 19 / Test Result April' 19 / From Fill up (Part-II) April' 19 • Summer Recess May-June ' 19 / Part-II Exam. May – June' 19
		Ecology & Plant Geography	30	LS	
	Paper - V	Embryology	12	MB	
		Anatomy	13	LS	
		Biochemistry	25	MD	
	Paper - VI (Practical)	Taxonomy of Angiosperms	40	RM	
		Anatomy, Bryophyte, Pteridophyte, Gymnosperms, & Paleobotany	40	MB	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2018-2019

SUBJECT: BOTANY (GENERAL)

SUBJECT CODE: BOTG

PART II

PAPER II & III

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
2 nd Year/Part II (General)	Paper - II	Anatomy, Economic Botany, Ecology & Embryology	25	LS	<ul style="list-style-type: none"> • Commencement of second year classes August/ September ' 18 • Pujja vacation October' 18 / Winter Recess December' 18 • Part-II Exam. . March' 19 / Test Result April' 19 / From Fill up (Part-II) April' 19 • Summer Recess May-June ' 19 / Part-II Exam. May – June' 19
		Cell Biology & Genetics	25	SD	
		Biochemistry & Plant Physiology	25	MD	
	Paper - III (Practical)	Cryptogams, Angiosperms, Anatomy, Plant Physiology, Cytology, Field Work	60	SD & MD (Group Wise)	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2018-2019

SUBJECT: BOTANY (HONOURS)

SUBJECT CODE: BOTA

PART III

PAPER VII, VIII, IX & X

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
3 rd Year/ Part III (Honours)	Paper - VII	Plant Physiology	50	MD	<ul style="list-style-type: none"> • Commencement of third year classes July /August' 18 • Pujya vacation October' 18 / Winter Recess December' 18 • Part-III Test Exam. Jan' 19 / Test Result Feb' 19 / Form Fill Up (Part-III) Mar' 19 • Part-III Exam. April-May' 19 / Summer Recess May-June ' 19
		Pharmacognosy	20	RM	
		Biotechnology	15	MB	
	Paper -VIII	Cell Biology, Genetics, Plant Breeding, Biometry	80	MB	
	Paper - IX (Practical)	Plant Physiology, Biochemistry	75	MD	
		Pharmacognosy	30	RM	
	Paper - X (Practical)	Cytology	69	SD	
		Biometry	30	MB	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2018-2019

SUBJECT: BOTANY (GENERAL)

SUBJECT CODE: BOTG

PART III

PAPER IV & V

Year	Syllabus Module/Unit	Topic	No of Lectures	Teachers	Remarks
3 rd Year/Part III (General)	Paper -IV	Mushroom, Measurement of Central Tendency, Plant Tissue Culture	15	MB	<ul style="list-style-type: none"> • Commencement of third year classes July /August '18 • Puja vacation October' 18 / Winter Recess December' 18 • Part-III Test Exam. Jan' 19 / Test Result Feb' 19 / Form Fill Up (Part-III) Mar' 19 • Part-III Exam. April-May' 19 / Summer Recess May-June' 19
		Plant breeding, Recombinant DNA Technology, Bioinformatics	12	SD	
		Biofertilizer, Pharmacognosy	10	LS	
	Paper – V (Practical)	Bacterial Staining, Biometry, Medicinal Plants	36	MB	

Department of Botany

Academic Calendar

Session: 2023 - 2024



Rishi Bankim Chandra College for Women

East Kanthal Para, Naihati

24 Parganas (North), W.B.

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

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 (3) Microbiology (25) & Phycology (25)	Microbiology	30	MB	<ul style="list-style-type: none"> • Commencement of Semester-I classes July' 23 • Puja vacation October' 23 • Semester-I Exam. – December' 23 • Winter Recess December' 23
		Phycology	30	SN	
	DS 1P (2) Microbiology (10+15) & Phycology (10+15)	Microbiology		SD	
		Phycology		SN	
	SEC 1	Mushroom Cultivation Technique	30	SD	

SUBJECT: BOTANY (GENERAL)

SEMESTER - I (NEP)

COURSE: MINOR 1/CORE

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1 st Semester (Minor / Core) = Gen.	MA-1T (5) T=50 Phycology, Microbiology, Mycology, Phytopathology, Archigoniata	Biodiversity (Microbes, Algae, Fungi & Phytopathology)	34	SN	<ul style="list-style-type: none"> • Commencement of Semester-I classes July' 23 • Puja vacation October' 23 • Semester-I Exam. – December' 23 • Winter Recess December' 23
		Biodiversity (Archegoniate, Bryophytes, Pteridophytes, Gymnosperms)	26	RM	
	MA-1P P=50	Biodiversity (Microbes, Algae, Fungi, Bryophyte, Pteridophyte, Gymnosperms)		RM+SN+MD (Group Wise)	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

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

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
1st Semester	MDC 1	Molecular Biology & Biotechnology	08	SD	<ul style="list-style-type: none"> • Commencement of Semester-I classes July' 23 • Puja vacation October' 23 • Semester-I Exam.- December' 23 • Winter Recess December' 23
		Botany	09		

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

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.	DS 2T (5) Mycology (25) & Phytopathology (25)	Mycology	30	MB	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 24 • Summer Recess May' 24- June' 24 • Semester-II Exam. – June' 24
		Phytopathology	25	AKS	
	DS 2P (2) Mycology (10+15) Phytopathology (10+15)	Mycology		SN	
		Phytopathology		AKS	
	SEC 2	Tissue Culture Technique & Micropropagation	30	SD	

SUBJECT: BOTANY (GENERAL)

SEMESTER - II (NEP)

COURSE: MINOR 2/CORE

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
2 nd Semester (Minor / Core) = Gen.	MA-2T (5) T=50 Plant Ecology & Taxonomy	Unit 1,2,6,7,8,9,10,12	30	RM	<ul style="list-style-type: none"> • Commencement of Semester-II classes January' 24 • Summer Recess May' 24- June' 24 • Semester-II Exam. – June' 24
		Unit 3,4,5,11	20	AKS	
	MA-2P (2) P=50 Plant Ecology & Taxonomy	All		RM+SN (Group Wise)	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

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

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
2 nd Semester	MDC 2	Molecular Biology & Biotechnology	08	SD	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January' 24 • Summer Recess May' 24-June' 24 • Semester-IV Exam.- June' 24
		Botany	09		

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: BOTANY (HONOURS)

SEMESTER - III

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
3 rd Semester (Honours)	BOTACOR05T Morphology & Anatomy of Angiosperms	Morphology & Adaptive and Protective Systems of Angiosperms	18	SN	<ul style="list-style-type: none"> • Commencement of Semester-III classes July' 23 • Puja vacation October' 23 • Semester-III Exam.- December' 23 • Winter Recess December' 23
		Anatomy of Angiosperms	42	RM	
	BOTACOR05P Morphology & Anatomy of Angiosperms	Morphology & Anatomy of Angiosperms	60	RM	
	BOTACOR06T Economic Botany	Origin of Cultivated Plants, Cereals, Legumes, Sources of Sugar & Starches, Spices	32	MB	
		Sources of Oils & Fats, Natural Rubber, Drug yielding Plants, Timber Plants, Fibres	28	SN	
	BOTACOR06P Economic Botany	Economic Botany	60	RM	
	BOTACOR07T Genetics	Mendelian Genetics, Fine Structure of Genes, Population Genetics	28	SD	
		Rest of the Syllabus	32	AKS	
	BOTACOR07P Genetics	Mitosis & Meiosis, Photograph & Permanent slide showing of abnormal stages	45	SD	
		Biometry & Rest of the Genetics	15	AKS	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: BOTANY (GENERAL)

SEMESTER -III

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No of lectures (Hours)	Teachers	Remarks
3 rd Semester (General)	BOTGCOR03T/ BOTHGEC03T Plant Anatomy & Embryology	Tissues, Adaptive & Protective Systems	16	MD	<ul style="list-style-type: none"> • Commencement of Semester-III classes July' 23 • Puja vacation October' 23 • Semester-III Exam.- December' 23 • Winter Recess December' 23
		Organs, Secondary Growth, Structural organization of flower	20	RM	
		Embryology	24	AKS	
	BOTGCOR03P/ BOTHGEC03P Plant Anatomy & Embryology	Plant Anatomy & Embryology	60	AKS+RM +SN (Group Wise)	
	BOTSSEC01M Plant Diversity & Human Welfare	Plant Diversity & Human Welfare	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: BOTANY (HONOURS)

SEMESTER - IV

SUBJECT CODE: BOTA

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (Honours)	BOTACOR08T Molecular Biology	Nucleic Acids, Structures of DNA & RNA, Replication of DNA	24	MB	<ul style="list-style-type: none"> • Commencement of Semester-IV classes January' 24 • Summer Recess May' 24-June' 24 • Semester-IV Exam.- June' 24
		Central Dogma, Genetic Code, Transcription, Processing & Modification of RNA, Translation	36	AKS	
	BOTACOR08P Molecular Biology	Molecular Biology	60	SD	
	BOTACOR09T Plant Ecology & Phyto Geography	Introduction, Soil, Water, Light, Temperature, Wind, Fire	20	SN	
		Biotic Interactions, Ecosystem	06	MB	
		Population Ecology, Plant Communities, Functional Aspects of Ecosystem, Phyto Geography	32	AKS	
	BOTACOR09P Plant Ecology & Phyto Geography	Plant Ecology & Phyto Geography	60	SN	
	BOTACOR10T Plant Systematics	Plant Systematics	60	RM	
	BOTACOR10P Plant Systematics	Plant Systematics	60	RM	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: BOTANY (GENERAL)

SEMESTER - IV

SUBJECT CODE: BOTG

Sem	Syllabus Module/Unit	Topic	No. of Lectures (Hours)	Teachers	Remarks
4 th Semester (General)	BOTGCOR04T/ BOTHGEC04T Plant Physiology & Metabolism	Plant Water Relationship, Translocation in Phloem, Photosynthesis, Respiration, Nitrogen Metabolism Mineral Nutrition, Enzymes, Plant Growth Regulators, Plant Response to Light & Temperature	60	MD	<ul style="list-style-type: none">• Commencement of Semester-IV classes January' 24• Summer Recess May' 24-June' 24• Semester-IV Exam.- June' 24
	BOTGCOR04P/ BOTHGEC04P Plant Physiology & Metabolism	Plant Physiology & Metabolism	60	MD+SN (Group Wise)	
	BOTSSEC02M Ethnobotany	Ethnobotany	30	RM	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: BOTANY (HONOURS)

SEMESTER - V

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' 23 • Puja vacation October' 23 • Semester-V Exam.– December' 23 • Winter Recess December' 23
		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 2023-2024

SUBJECT: BOTANY (GENERAL)

SEMESTER - V

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' 23• Puja vacation October' 23• Semester-V Exam.- December' 23• Winter Recess December' 23
	BOTGDSE01P Cell & Molecular Biology	Study of Mitosis & Meiosis, Preparation of Karyotype & Ideogram Rest of the Syllabus	32	SD	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: BOTANY (HONOURS)

SEMESTER - VI

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' 24 • Summer Recess May' 24-June' 24 • Semester-VI Exam.- June' 24
	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	

Department of Botany

ACADEMIC CALENDAR FOR THE YEAR 2023-2024

SUBJECT: BOTANY (GENERAL)

SEMESTER - VI

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' 24• Summer Recess May' 24-June' 24• Semester-VI Exam.- June' 24
		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	