



**பாரதிதாசன் பல்கலைக்கழகம், திருச்சிராப்பள்ளி - 620 024**  
**BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI-620 024**  
(Accredited with 'A+' Grade by NAAC in the Third Cycle)

**பகுதி-3 – பாடக் குறியீடு**

**PART-III – SUBJECT CODE**

B.Sc. Apparel & Fashion Technology, Artificial Intelligence and Machine Learning, Biochemistry, Biotechnology, Botany, Chemistry, Comp.Applications (B.C.A), Computer Science, Cyber Security, Data Science, Electronics, Environmental Science, Fashion Technology and Costume Designing, Forensic Science, Geography, Geology, Home Science, Hospital Administration, Hotel Management and Catering Science, Information Technology, Interior Design, Library Information Science, Mathematics, Microbiology, Nutrition and Dietetics, Physical Education, Health Education and Sports, Physics, Psychology, Software Development, Statistics, Textile Science, Visual Communication and Zoology

**CHOICE BASED CREDIT SYSTEM - LEARNING OUTCOMES BASED CURRICULUM  
FRAMEWORK (CBCS - LOCF)**

**(For the candidates admitted from the Academic Year 2022-2023 onwards)**

**பகுதி-3 – பாடக் குறியீடு**

**PART-III – SUBJECT CODE**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Fashion Designing	22SCCAF1
		Core Practical – I (CP)	Fashion Sketching - Practical	22SCCAF1P
		First Allied Course –I (AC)	Fibre to Fabric	22SACAF1
2	III	Core Course – II (CC)	Pattern Making Techniques	22SCCAF2
		Core Practical– II (CP)	Basics of Sewing -Practical	22 SCCAF2P
		First Allied Practical - II (AP)	Computer Aided Designing -Practical	22SACAF1P
		First Allied Course – II (AC)	Indian Textiles & Embroidery	22SACAF2
		Add on Course - I	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Fabric Structure and Design	22SCCAF3
		Core Practical – III (CP)	Fabric Structure and Design – Practical	22 SCCAF3P
		Second Allied Course – I (AC)	Garment manufacturing Technology	22SACAF3
		Add on Course - II	Professional English - II	22PELPS2
4	III	Core Course – IV (CC)	Wet Processing	22SCCAF4
		Core Course – IV (CP)	Wet Processing – Practical	22 SCCAF4P
		Second Allied Practical (AP)	Fashion Portfolio – Practical	22SACAF2P
		Second Allied Course – II (AC)	Draping	22SACAF4
5	III	Core Course – V (CC)	Fashion Merchandising and Marketing	22SCCAF5
		Core Course – VI (CC)	Textile Testing	22SCCAF6
		Core Practical - V (CP)	Kid’s Apparel Designing -Practical	22 SCCAF5P
		Core Practical - VI (CP)	Textile Testing – Practical	22 SCCAF6P
		Major Based Elective – I	1. Fabric Care	22SMBEAF1A
	2. Export Documentation		22SMBEAF1B	
IV	Skill Based Electrive - 1	Boutique Management	22SSBEAF1	
6	III	Core Course – VII (CC)	Technical Textile	22SCCAF7
		Core Course – VIII (CC)	Quality and Cost Control	22SCCAF8
		Core Practical - VII (CP)	Adult’s Apparel Designing -Practical	22 SCCAF7P
		Major Based Elective II	1. EntrepreneurshipDevelopment	22SMBEAF2A
			2. Apparel Costing	22SMBEAF2B
		Project	Project	22SAFPW
	IV	Skill Based Electrive - II	Surface Embellishment Practical	22SSBEAF2P

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Programming in C and Data Structures	22SCCAI1
		Core Practical – I (CP)	Programming in C Practical	22SCCAI1P
		First Allied Course – I (AC)	Mathematics – I Algebra and Calculus	22SCACMM2A
2	III	Core Course – II (CC)	Programming in Python	22SCCAI2
		Core Practical – II (CP)	Programming in Python Practical	22SCCAI2P
		First Allied Course – II (AC)	Mathematics – II Numerical Analysis and Probability	22SCACMM2B
		First Allied Course – III (AC)	Mathematics – III Operation Research	22SCACMM2C
		Add on Course - I	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	RDBMS and NoSQL	22SCCAI3
		Core Practical – III (CP)	RDBMS and NoSQL Practical	22SCCAI3P
		Second Allied Course – I (AC)	Applied Physics I	22SCACAP1
		Add on Course – II	Professional English – II	22PELPS2
4	III	Core Course -IV (CC)	Artificial Intelligence	22SCCAI4
		Core Practical - IV (CP)	Artificial Intelligence Practical	22SCCAI4P
		Second Allied Practical (AP)	Applied Physics –I Practical	22SCACAP1P
		Second Allied Course -III (AC)	Applied Physics - II	22SCACAP2

5	III	Core Course -V (CC)	Embedded Systems and IoT	22SCCAI5
		Core Course - VI(CC)	Open Source Software	22SCCAI6
		Core Course - VII(CC)	Robotics	22SCCAI7
		Core Practical -V (CP)	Robotics – Practical	22SCCAI5P
		Major Based Elective – I(At least Two Choices)	1. Virtual Reality and Augmented Reality	22SMBEAI1A
	2. Fuzzy Logic and Neural Networks		22SMBEAI1B	
	IV	Skill Based Elective - I	Mobile Application Development	22SSBEAI1
6	III	Core Course - VIII (CC)	Human Computer Interaction	22SCCAI8
		Core Course -IX (CC)	Machine Learning	22SCCAI9
		Core Practical - VI(CP)	Machine Learning Techniques – Practical	22SCCAI6P
		Major Based Elective II (At least Two Choices)	1.Natural Language Processing	22SMBEAI2A
			2. Deep Learning	22SMBEAI2B
	Project	Project	22SAIPW	
	IV	Skill Based Elective - II	Cloud Computing	22SSBEAI2

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Cell Biology	22SCCBC1
		Core Practical – I (CP)	Cell Biology – Practical	22SCCBC1P
		First Allied Course – I (AC)	General Chemistry	22SACBC1
2	III	Core Course – II (CC)	Molecules of Life	22SCCBC2
		Core Practical – II (CP)	Molecules of Life – Practical	22SCCBC2P
		First Allied Course – II (AC)	Organic Chemistry	22SACBC2
		First Allied Practical – II (AP)	General Chemistry - Practical	22SACBC1P
		Add on Course - I	Professional English – I	22PELLS1
3	III	Core Course – III (CC)	Biochemical Techniques	22SCCBC3
		Core Practical – III (CP)	Biochemical Techniques – Practical	22SCCBC3P
		Second Allied Course – I (AC)	Basic Microbiology	22SACBC3
		Add on Course - II	Professional English – II	22PELLS2
4	III	Core Course – IV (CC)	Biophysical Chemistry	22SCCBC4
		Core Practical – IV (CP)	Biophysical Chemistry – Practical	22SCCBC4P
		Second Allied Course – II (AC)	Medical Microbiology	22SACBC4
		Second Allied Practical (AP)	Basic Microbiology – Practical	22SACBC2P
5	III	Core Course –V (CC)	Enzymes	22SCCBC5
		Core Course – VI(CC)	Molecular Biology	22SCCBC6
		Core Course – VII(CC)	Intermediary Metabolism	22SCCBC7
		Core Practical –V (CP)	Enzyme Kinetics and Molecular Biology – Practical	22SCCBC5P
		Major Based Elective – I	1. Human Physiology	22SMBEBC1A
	2. Basic Bio Technology		22SMBEBC1B	
	IV	Skill Based Elective - II	Bio-Instrumentation	22SSBEBC1
6	III	Core Course – VIII (CC)	Immunology	22SCCBC8
		Core Course – IX (CC)	Clinical Biochemistry	22SCCBC9
		Core Practical – VI(CP)	Clinical Biochemistry and Immunology – Practical	22SCCBC6P
		Major Based Elective II	1. Endocrinology	22SMBEBC2A
			2. Food and Nutrition	22SMBEBC2B
	Project	Project	22SBCPW	
	IV	Skill Based Elective - II	Medical Lab Technology	22SSBEBC2

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Cell Biology	22SCCBT1
		Core Practical – I (CP)	Cell Biology – Practical	22SCCBT1P
		First Allied Course – I (AC)	Basic Microbiology	22SACBT1
2	III	Core Course – II (CC)	Molecular Biology	22SCCBT2
		Core Practical – II (CP)	Molecular Biology – Practical	22SCCBT2P
		First Allied Practical (AP)	Microbiology - Practical	22SACBT1P
		First Allied Course – II (AC)	Applied Microbiology	22SACBT2
		Add on Course – I	Professional English - II	22PELLS1
3	III	Core Course – III (CC)	rDNA Technology	22SCCBT3
		Core Practical – III (CP)	rDNA Technology - Practical	22SCCBT3P
		Second Allied Course – I(AC)	Biomolecules	22SACBT3
		Add on Course – II	Professional English - II	22PELLS2
4	III	Core Course – IV (CC)	Immunology and Immunotechnology	22SCCBT4
		Core Practical – IV (CP)	Immunology - Practical	22SCCBT4P
		Second Allied Practical (AP)	Biochemistry - Practical	22SACBT2P
		Second Allied Course (AC)	Analytical Biochemistry	22SACBT4
5	III	Core Course –V (CC)	Plant Biotechnolgy	22SCCBT5
		Core Course – VI(CC)	Animal Biotechnology	22SCCBT6
		Core Course – VII(CC)	Environmental Biotechnology	22SCCBT7
		Core Practical –V (CP)	Plant Animal Biotechnology and Environmental Biotechnology – Practical	22SCCBT5P
		Major Based Elective – I	1. Developmental Biology	22SMBEBT1A
	2. Bioinformatics		22SMBEBT1B	
IV	Skill Based Elective - I	Skill Based elective – I	22SSBEBT1	
6	III	Core Course – VIII (CC)	Microbial Biotechnology	22SCCBT8
		Core Course – IX (CC)	Biostatistics and Biosafety	22SCCBT9
		Core Practical – VI(CP)	Microbial Biotechnology – Practical	22SCCBT6P
		Major Based Elective II	1 IRP and Bioethics	22SMBEBT2A
			2. Nanotechnology	22SMBEBT2B
	Project	Project	22SBTPW	
IV	Skill Based Elective - II	Skill Based elective -II	22SSBEBT2	

**B.Sc. BOTANY****05**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Algae, Fungi, Lichens and Bryophytes	22SCCBO1
		Core Practical – I (CP)	Algae, Fungi, lichens, Bryophytes - Practical	22SCCBO1P
		First Allied Course – I (AC)	Zoology – 1 Biology of Invertebrates and Chordates	22SCACZO1
2	III	Core Course – II (CC)	Microbiology, Plant pathology and Plant Protection	22SCCBO2
		Core Practical – II (CP)	Microbiology, Plant pathology and Plant Protection – Practical	22SCCBO2P
		First Allied Practical (AP)	Biology of Invertebrates and Chordates and Occupational Zoology – Practical	22SCACZO1P
		First Allied Course – II (AC)	Zoology - II Occupational Zoology	22SCACZO2
		Add on Course - I	Professional English – I	22PELLS1
3	III	Core Course – III (CC)	Pteridophytes, Gymnosperms and Paleo Botany	22SCCBO3
		Core Practical - III (CP)	Pteridophytes, Gymnosperms and Paleo Botany – Practical	22SCCBO3P
		Second Allied Course – I (AC)	Allied Chemistry – I	22SCACCH1
		Add on Course – II	Professional English – II	22PELLS2
4	III	Core Course - IV (CC)	Plant Anatomy and Embryology	22SCCBO4
		Core Practical - IV (CP)	Plant Anatomy and Embryology – Practical	22SCCBO4P
		Second Allied Practical – I (AP)	Allied Chemistry – II – Practical Volumetric and Organic Qualitative Analysis	22SCACCH1P
		Second Allied Course – II (AC)	Allied Chemistry – II	22SCACCH2

5	III	Core Course - V (CC)	Cell and Molecular Biology	22SCCB05
		Core Course – VI (CC)	Genetics, Biostatistics and Evolution	22SCCB06
		Core Course – VII (CC)	Morphology, Taxonomy and Economic Botany	22SCCB07
		Core Practical -V (CP)	Cell and Molecular Biology & Genetics, Biostatistics and Evolution& Morphology, Taxonomyof Angiosperms and Economic Botany – Practical	22SCCB05P
		Major Based Elective – I	1. Herbal Botany	22SMBEBO1A
	2. Horticulture and Landscape Gardening		22SMBEBO1B	
IV	Skill Based Elective - I	Techniques in Biology	22SSBEBO1	
6	III	Core Course - VIII (CC)	Plant Physiology,Biochemistry and Biophysics	22SCCB08
		Core Course - IX (CC)	Plant Ecology, Phyto geography and Environmental Biotechnology	22SCCB09
		Core Practical – VI (CP)	Plant Physiology, Biochemistry and Biophysics and Plant Ecology, Phytogeographyand Environmental Biotechnology - Practical	22SCCB06P
		Major Based Elective II	1. Agribased Entrepreneurship	22SMBEBO2A
			2. Mushroom Cultivation Technology	22SMBEBO2B
		Project	Project	22SBOPW
	IV	Skill Based Elective - II	Seed Weed Technology	22SSBEBO2



**CHEMISTRY**

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SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	General Chemistry – I	22SCCCH1
		Core Practical – I (CP)	Volumetric Analysis	22SCCCH1P
		First Allied Course – I (AC)	Botany - I Plant Diversity, Anatomy and Embryology – Practical	22SCACBO1
			Computer Science – I Programming in C	22SCACCS1
			Zoology – I Biology of Invertebrates and Chordates	22SCACZO1
		Mathematics – I Calculus and Fourier Series	22SCACMM1A	
2	III	Core Course – II (CC)	General Chemistry II	22SCCCH2
		Core Practical – II (CP)	Applied Experiments in Volumetric Analysis – Practical	22SCCCH2P
		First Allied Practical (AP)	Botany Practical – I Plant Diversity, Anatomy and Embryology & Taxonomy, Physiology, Ecology and Biotechnology	22SCACBO1P
			Computer Science Programming in C Practical	22SCACCS1P
			Zoology Practical Biology of Invertebrates and Chordates and Occupational Zoology	22SCACZO1P
		First Allied Course - II (AC)	Mathematics –II Algebra, Analytical Geometry (3D) and Trigonometry	22SCACMM1B
		First Allied Course - II (AC)	Botany – II Taxonomy, Physiology, Ecology and Bio technology	22SCACBO2
			Computer Science II Principles of Information Technology	22SCACCS2
			Zoology – II Occupational Zoology	22SCACZO2
		First Allied Course – III (AC)	Mathematics –III ODE, PDE, Laplace Transforms and Vector Analysis	22SCACMM1C
		Add on Course - I	Professional English I	22PELPS1

3.	III	Core Course – III (CC)	General Chemistry III	22SCCCH3
		Core Practical - III (CP)	Semimicro Analysis - Practical	22SCCCH3P
		Second Allied Course -I(AC)	Physics – I	22SCACPH1
		Add on Course - II	Professional English II	22PELPS2
4	III	Core Course - IV (CC)	General Chemistry IV	22SCCCH4
		Core Practical - IV (CP)	Organic Qualitative Analysis and Organic Preparation – Practical	22SCCCH4P
		Second Allied Practical-I (AP)	Physics Practical	22SCACPH1P
		Second Allied Course -II(AC)	Physics II	22SCACPH2
5	III	Core Course - V (CC)	Inorganic Chemistry	22SCCCH5
		Core Course – VI (CC)	Organic Chemistry I	22SCCCH6
		Core Course – VII (CC)	Physical Chemistry I	22SCCCH7
		Core Practical -V (CP)	Physical Chemistry Practical	22SCCCH5P
		Major Based Elective – I Skill Based Elective I	1. Analytical Chemistry	22SMBECH1A
	2. Material and Nano Chemistry		22SMBECH1B	
IV	Skill Based Elective - I	Skill Based elective – I	22SSBECH1	
6	III	Core Course - VIII (CC)	Organic Chemistry II	22SCCCH8
		Core Course - IX (CC)	Physical Chemistry II	22SCCCH9
		Core Practical – VI (CP)	Gravimetric Analysis and Determination of Physical Constant – Practical	22SCCCH6P
		Major Based Elective II	1. Nuclear, Industrial Chemistry & Metallic State	22SMBECH2A
			2. Polymer Chemistry	22SMBECH2B
		Project	Project	22SCHPW
	IV	Skill Based Elective - II	Skill Based elective – II	22SSBECH2

**COMPUTER APPLICATIONS (B.C.A.) 07****REVISED**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Programming in C and Data Structures	22SCCCA1
		Core Practical – I (CP)	Programming in C Practical	22SCCCA1P
		First Allied Course – I (AC)	Mathematics –I Algebra and Calculus	22SCACMM2A
2	III	Core Course – II (CC)	Programming in Java	22SCCCA2
		Core Practical - II(CP)	Programming in Java Practical	22SCCCA2P
		First Allied Course – II (AC)	Mathematics – II Numerical Analysis and Probability	22SCACMM2B
		First Allied Course – III (AC)	Mathematics – III Operation Research	22SCACMM2C
		Add on Course – I	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Programming in Python	22SCCCA3
		Core Practical – III (CP)	Programming in Python Practical	22SCCCA3P
		<b><u>Second Allied Course – I * (AC)</u></b>	<b><u>Principles of Accounting</u></b>	<b><u>22SCACA0B1</u></b>
		Add on Course - II	Professional English- II	22PELPS2
4	III	Core Course – IV (CC)	Database Management Systems	22SCCCA4
		Core Practical – IV (CP)	Database Management Systems Practical	22SCCCA4P
		<b><u>Second Allied Course -I (AC)*+</u></b>	<b><u>Computer Application in Business</u></b>	<b><u>22SCACA0B2</u></b>
		<b><u>Second Allied Practical - II * (AC)</u></b>	<b><u>Organisational Behaviour</u></b>	<b><u>22SCACA0B3</u></b>

**Note: \* Revised as on 03.10.2023**

5	III	Core Course - V (CC)	Fundamentals of Algorithms	22SCCCA5
		Core Course – VI (CC)	Computer Networks	22SCCCA6
		Core Course – VII (CC)	Web Technology	22SCCCA7
		Core Practical -V (CP)	Web Technology Practical	22SCCCA5P
		Major Based Elective – I	1. Multimedia Technologies	22SMBECA1A
	2. Data Mining and Warehousing		22SMBECA1B	
IV	Skill Based Elective - II	Mobile Application Development	22SSBECA1	
6	III	Core Course - VIII (CC)	Operating Systems	22SCCCA8
		Core Course - IX (CC)	Programming in PHP	22SCCCA9
		Core Practical – VI (CP)	Programming in PHP Practical	22SCCCA6P
		Major Based Elective II Project	1. Software Project Management	22SMBECA2A
			2. E-Commerce Technologies	22SMBECA2B
	Project	Project	22SCAPW	
IV	Skill Based Elective - II	Internet of Things	22SSBECA2	

**CONTROLLER OF EXAMINATIONS**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Programming in C and Data Structures	22SCCCS1
		Core Practical – I (CP)	Programming in C Practical	22SCCCS1P
		First Allied Course – I (AC)	Mathematics –I Algebra and Calculus	22SCACMM2A
2	III	Core Course – II (CC)	Programming in Java	22SCCCS2
		Core Practical – II (CP)	Programming in Java Practical	22SCCCS2P
		First Allied Course – II (AC)	Mathematics – II Numerical Analysis and Probability	22SCACMM2B
		First Allied Course – III (AC)	Mathematics – III Operation Research	22SCACMM2C
		Add on Course - I	Professional English - I	22PEL PS1
3	III	Core Course – III (CC)	Programming in Python	22SCCCS3
		Core Practical - III (CP)	Programming in Python Practical	22SCCCS3P
		Second Allied Course - I (AC)	Applied Physics I	22SCACAP1
		Add on Course - II	Professional English-II	22PEL PS2
4	III	Core Course - IV (CC)	Database Management Systems	22SCCCS4
		Core Practical - IV (CP)	Database Management Systems Practical	22SCCCS4P
		Second Allied Practical (AP)	Applied Physics –I Practical	22SCACAP1P
		Second Allied Course -II(AC)	Applied Physics - II	22SCACAP2

5	III	Core Course - V (CC)	Fundamentals of Algorithms	22SCCCS5
		Core Course – VI (CC)	Computer Networks	22SCCCS6
		Core Course – VII (CC)	Digital Electronics and Microprocessor	22SCCCS7
		Core Practical -V (CP)	Digital Electronics and Microprocessor Practical	22SCCCS5P
		Major Based Elective – I	1. Artificial Intelligence and Expert Systems	22SMBECS1A
	2. Computer Graphics		22SMBECS1B	
IV	Skill Based Elective - II	Web Technology	22SSBECS1	
6	III	Core Course - VIII (CC)	Operating Systems	22SCCCS8
		Core Course - IX (CC)	Programming in PHP	22SCCCS9
		Core Practical – VI (CP)	Programming in PHP Practical	22SCCCS6P
		Major Based Elective II	1. Software Engineering	22SMBECS2A
			2. Big Data Analytics	22SMBECS2B
	Project	Project	22SCSPW	
IV	Skill Based Elective - II	Mobile Application Development	22SSBECS2	

**B.Sc. CYBER SECURITY**

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SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Programming in C and Data Structures	22SCCCYS1
		Core Practical – I (CP)	Programming in C Practical	22SCCCYS1P
		First Allied Course – I (AC)	Mathematics –I Algebra and Calculus	22SCACMM2A
2	III	Core Course – II (CC)	Programming in Java	22SCCCYS2
		Core Practical – II (CP)	Programming in Java Practical	22SCCCYS2P
		First Allied Course – II (AC)	Mathematics – II Numerical Analysis and Probability	22SCACMM2B
		First Allied Course – III (AC)	Mathematics – III Operation Research	22SCACMM2C
		Add on Course - I	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Programming in Python	22SCCCYS3
		Core Practical - III (CP)	Programming in Python Practical	22SCCCYS3P
		Second Allied Course -I (AC)	Applied Physics I	22SCACAP1
		Add on Course - II	Professional English- II	22PELPS2
4	III	Core Course - IV (CC)	Fundamentals of Cyber Security	22SCCCYS4
		Core Practical - IV (CP)	Cyber Security Practical	22SCCCYS4P
		Second Allied Practical (AP)	Applied Physics –II Practical	22SCACAP1P
		Second Allied Course – III (AC)	Applied Physics - II	22SCACAP2

5	III	Core Course -V (CC)	Cyber Crimes and Mitigation Techniques	22SCCCYS5
		Core Course – VI (CC)	Social Web Analytics	22SCCCYS6
		Core Course – VII (CC)	Ethical Hacking	22SCCCYS7
		Core Practical -V (CP)	Ethical Hacking Practical	22SCCCYS5P
		Major Based Elective – I	Web and information Security	22SMBECYS1A
	Fundamentals of Cryptography		22SMBECYS1B	
IV	Skill Based Elective - II	Linux Programming	22SSBECYS1	
6	III	Core Course - VIII (CC)	Introduction to Block Chain Technology	22SCCCYS8
		Core Course - IX (CC)	Cloud Computing Security	22SCCCYS9
		Core Practical – VI (CP)	Cloud Computing Practical	22SCCCYS6P
		Major Based Elective II	Cyber Law and Defence Techniques	22SMBECYS2A
			Penetration Testing	22SMBECYS2B
	Project	Project	22SCYSPW	
IV	Skill Based Elective - II	Mobile Application Development	22SSBECYS2	



**B.Sc DATA SCIENCE****10**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Programming in C and Data Structures	22SCCDS1
		Core Practical – I (CP)	Programming in C Practical	22SCCDS1P
		First Allied Course – I (AC)	Mathematics - I Mathematics 1 for Data Science	22SCACMM4A
2	III	Core Course – II (CC)	Python Programming	22SCCDS2
		Core Practical – II (CP)	Python Programming Practical	22SCCDS2P
		First Allied Course – II (AP)	Mathematics - I Data Analytics using Spread Sheets Practical	22SCACMM4P
		First Allied Course – III (AC)	Mathematics – II Mathematics II for Data Science	22SCACMM4B
		Add on Course - I	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Database Systems	22SCCDS3
		Core Practical - III (CP)	Database Systems Practical	22SCCDS3P
		Second Allied Course - I (AC)	Statistics I	22SCACST1
		Add on Course - II	Professional English II	22PELPS2
4	III	Core Course - IV (CC)	Big Data Analytics with NoSQL Database	22SCCDS4
		Core Practical - IV (CP)	Big Data Analytics Practical	22SCCDS4P
		Second Allied Practical (AP)	Statistics for Data Science Practical	22SCACST1P
		Second Allied Course -III (AC)	Statistics II	22SCACST2

5	III	Core Course - V (CC)	Data Mining, Data Warehousing and Data Visualization	22SCCDS5
		Core Course – VI (CC)	Network Security	22SCCDS6
		Core Course – VII (CC)	Cloud Computing	22SCCDS7
		Core Practical -V (CP)	Data Mining, and Data Visualization - Practical	22SCCDS5P
		Major Based Elective – I	1. Internet of Things	22SMBEDS1A
	2. Block Chain Technology		22SMBEDS1B	
IV	Skill Based Elective - II	Shell programming	22SSBEDS1	
6	III	Core Course - VIII (CC)	R Programming	22SCCDS8
		Core Course - IX (CC)	Machine Learning	22SCCDS9
		Core Practical – VI (CP)	Machine Learning Practical	22SCCDS6P
		Major Based Elective II	1. Computing Technologies for DataScience	22SMBEDS2A
			2. Augmented Reality and Virtual Reality	22SMBEDS2B
		Project	Project	22SDSPW
	IV	Skill Based Elective – II	Web Technology	22SSBEDS2

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Electric Circuits & Electronic Devices	22SCCEL1
		Core Practical – I (CP)	Electric Circuits & Electronic Devices Practical	22SCCEL1P
		First Allied Course – I (AC)	Mathematics – I Calculus and Fourier Series	22SCACMM1A
2	III	Core Course – II (CC)	Analog Electronic Circuits	22SCCEL2
		Core Practical – II (CP)	Analog Electronic Circuits Practical	22SCCEL2P
		First Allied Course – II (AC)	Mathematics –II Algebra, Analytical Geometry (3D) and Trigonometry	22SCACMM1B
		First Allied Course – III (AC)	Mathematics –III ODE, PDE, Laplace Transforms and Vector Analysis	22SCACMM1C
		Add on Course - I	Professional English – I	22PEL PS1
3	III	Core Course – III (CC)	Digital Electronics	22SCCEL3
		Core Practical - III (CP)	Digital Electronics Practical	22SCCEL3P
		Second Allied Course – I (AC)	Chemistry - I	22SCACCH1
			Computer Science - Programming in C	22SCACCS1
		Second Allied Practical (AP)	Chemistry – I Volumetric and Organic Qualitative Analysis Practical	22SCACCH1P
			Computer Science – Programming in C - Practical	22SCACCS1P
		Add on Course - II	Professional English - II	22PEL PS2

4	III	Core Course - IV (CC)	Linear Integrated Circuits	22SCCEL4
		Core Practical - IV (CP)	Linear Integrated Circuits Practical	22SCCEL4P
		Second Allied Practical (AP)	Chemistry – I Volumetric and Organic Qualitative Analysis -Practical	22SCACCH1P
			Computer Science – Programming in C Practical	22SCACCS1P
		Second Allied Course – II (AC)	Chemistry – II	22SCACCH2
			Computer Science – Principles of Information Technology	22SCACCS2
5	III	Core Course - V (CC)	Communication Systems	22SCCEL5
		Core Course – VI (CC)	Microprocessors and Microcontrollers	22SCCEL6
		Core Course – VII (CC)	Electronic Instrumentation	22SCCEL7
		Core Practical -V (CP)	Advanced Electronics Practicalatory	22SCCEL5P
		Major Based Elective – I	1. Embedded Systems	22SMBEEL1A
	2. Internet of Things		22SMBEEL1B	
	IV	Skill Based Elective - II	Mobile Phone Servicing	22SSBEEL1
6	III	Core Course - VIII (CC)	Power Electronics	22SCCEL8
		Core Course - IX (CC)	VLSI Design	22SCCEL9
		Core Practical – VI (CP)	VLSI Design Practicalatory	22SCCEL6P
		Major Based Elective - II Project	1. Biomedical Electronics	22SMBEEL2A
			2. Wireless Communications	22SMBEEL2B
		Project	Project	22SELPW
	IV	Skill Based Elective - II	Laptop Servicing and Troubleshooting	22SSBEEL2

**B.Sc ENVIRONMENTAL SCIENCE****12**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Concepts of Environment	22SCCES1
		Core Practical – I (CP)	Environment and Ecology - Practical	22SCCES1P
		First Allied Course – I (AC)	Biology I	22SACES1
2	III	Core Course – II (CC)	Biodiversity and Conservation	22SCCES2
		Core Practical – II (CP)	Ecology, Biodiversity and Conservation	22SCCES2P
		First Allied Practical – I (AP)	Biology - Practical	22SACES1P
		First Allied Course – II (AC)	Biology II	22SACES2
		Add on Course - I	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Environmental Pollution	22SCCES3
		Core Practical - III (CP)	Air and Soil Pollution Practical	22SCCES3P
		Second Allied Course – I (AC)	Chemistry I	22SCACCH1
		Add on Course - II	Professional English-II	22PELPS2
4	III	Core Course - IV (CC)	Natural Resources	22SCCES4
		Core Practical - IV (CP)	Water Pollution – Practical	22SCCES4P
		Second Allied Practical (AP)	Chemistry - Practical	22SCACCH1P
		Second Allied Course – II (AC)	Chemistry II	22SCACCH2

5	III	Core Course – V (CC)	Environmental Microbiology and Biotechnology	22SCCES5
		Core Course – VI (CC)	Environmental Sanitation	22SCCES6
		Core Course – VII (CC)	Sustainable Development	22SCCES7
		Core Practical -V (CP)	Environmental Microbiology Practical	22SCCES5P
		Major Based Elective – I	1. Climate Change and its Impact	22SMBEES1A
	2. Global Warming and Issues		22SMBEES1B	
IV	Skill Based Elective - II	Environmental Education and Awareness	22SSBEES1	
6	III	Core Course - VIII (CC)	Waste Management	22SCCES8
		Core Course - IX (CC)	Environmental Toxicology	22SCCES9
		Core Practical – VI (CP)	Environmental Toxicology Practical	22SCCES6P
		Major Based Elective II	1. Eco Tourism	22SMBEES2A
			2. Environmental Law and Policy	22SMBEES2B
	Project	Project	22SESPW	
IV	Skill Based Elective - II	RRR Strategies	22SSBEES2	

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Introduction to Fashion Designing	22SCCFT1
		Core Practical – I (CP)	Fashion Illustration Practical	22SCCFT1P
		First Allied Course – I (AC)	Textile Science	22SACFT1
2	III	Core Course – II (CC)	Fashion Clothing and Psychology	22SCCFT2
		Core Practical– II (CP)	Sewing Techniques Practical	22SCCFT2P
		First Allied Practical (AP)	Surface Embellishment Practical	22SACFT1P
		First Allied Course – II (AC)	Pattern Making Techniques	22SACFT2
		Add on Course - I	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Wet Processing	22SCCFT3
		Core Practical – III (CP)	Wet Processing Practical	22SCCFT3P
		Second Allied Course – I AC)	Indian Textiles & Embroidery	22SACFT3
		Add on Course - II	Professional English - II	22PELPS2
4	III	Core Course – IV (CC)	Garment Manufacturing Technology	22SCCFT4
		Core Practical - IV(CP)	Children’s Garment Practical	22SCCFT4P
		Second Allied Practical (AP)	Computer Aided Designing - Practical	22SACFT2P
		Second Allied Course – II (AC)	Draping	22SACFT4

5	III	Core Course – V (CC)	Boutique Management	22SCCFT5
		Core Course – VI (CC)	Textile Testing	22SCCFT6
		Core Practical - V (CP)	Fashion Portfolio - Practical	22SCCFT5P
		Core Practical - VI (CP)	Textile Testing- Practical	22SCCFT6P
		Major Based Elective – I	1. Fashion Merchandising & Marketing	22SMBEFT1A
	2. Export Documentation		22SMBEFT1B	
IV	Skill Based Elective - II	Fashion Business	22SSBEFT1	
6	III	Core Course – VII (CC)	Fabric Structure & Design	22SCCFT7
		Core Course – VIII (CC)	Quality and Cost Control	22SCCFT8
		Core Practical - VII (CP)	Adult's Garment – Practical	22SCCFT7P
		Major Based Elective II	1. Fabric care	22SMBEFT2A
			2. Apparel Costing	22SMBEFT2B
	Project	Project	22SFTPW	
IV	Skill Based Elective - II	Entrepreneurship Development	22SSBEFT2	



**B.Sc FORENSIC SCIENCE****14**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	General Forensic Science and Crime Scene Management	22SCCFS1
		Core Practical – I (CP)	Crime Scene Management Practical	22SCCFS1P
		First Allied Course – I (AC)	Botany – I Plant Diversity, Anatomy and Embryology	22SCACBO1
			Physics – I	22SCACPH1
2	III	Core Course – II (CC)	Crime and Criminal Justice System	22SCCFS2
		Core Practical – II (CP)	Fingerprints and Questioned Documents Practical	22SCCFS2P
		First Allied Practical (AP)	Botany Practical – I Plant Diversity, Anatomy and Embryology & Taxonomy, Physiology, Ecology and Biotechnology	22SCACBO1P
			Physics Practical – I	22SCACPH1P
		First Allied Course – II (AC)	Botany – II Taxonomy, Physiology, Ecology and Biotechnology	22SCACBO2
			Physics - II	22SCACPH2
		Add on Course - I	Professional English – I	22PELLS1
3	III	Core Course – III (CC)	DNA Forensics	22SCCFS3
		Core Practical - III (CP)	DNA Analysis Practical	22SCCFS3P
		Second Allied Course – I (AC)	Chemistry	22SCACCH1
			Computer Science	22SCACCS1
		Add on Course - II	Professional English - II	22PELLS2

4	III	Core Course - IV (CC)	Cyber Crime and Cyber Law	22SCCFS4
		Core Practical - IV (CP)	Cyber Crime and Cyber Law – Practical	22SCCFS4P
		Second Allied Practical – (AP)	Chemistry Practical Volumetric and Organic Qualitative Analysis	22SCACCH1P
			Computer Science Programming in C Practical	22SCACCS1P
		Second Allied Course – II (AC)	Chemistry – II	22SCACCH2
			Computer Science – II Principles of Information Technology	22SCACCS2
5	III	Core Course - V (CC)	Forensic Physics and Ballistics	22SCCFS5
		Core Course – VI (CC)	Instrumentation	22SCCFS6
		Core Course – VII (CC)	Forensic Medicine and Toxicology	22SCCFS7
		Core Practical - V (CP)	Forensic Medicine and Toxicology Practical	22SCCFS5P
		Major Based Elective I	1. Forensic Anthropology	22SMBEFS1A
	2. Wildlife Forensic		22SMBEFS1B	
	IV	Skill Based Elective - II	Advanced Forensic Psychology	22SSBEFS1
6	III	Core Course - VIII (CC)	Fingerprint and Questioned Documents	22SCCFS8
		Core Course - IX (CC)	Forensic Biology and Serology	22SCCFS9
		Core Practical – VI (CP)	Forensic Biology and Serology Practical	22SCCFS6P
		Major Based Elective II	1. Economic Offences	22SMBEFS2A
			2. Basis of Forensic Psychology	22SMBEFS2B
	Project	Project	22SFSPW	
IV	Skill Based Elective - II	Accident Investigation	22SSBEFS2	

**B.Sc. GEOGRAPHY****15**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Earth System Science	22SCCGR1
		Core Practical – I (CP)	Map Scales and Relief Feature Representation- Practical	22SCCGR1P
		First Allied Course – I (AC)	Statistics – I	22SCACST1
2	III	Core Course – II (CC)	Geomorphology	22SCCGR2
		Core Practical – II (CP)	Techniques of Terrain Analysis and Mapping- Practical	22SCCGR2P
		First Allied Practical (AP)	Statistics - Practical Data Analytics using Spread Sheets -Practical	22SCACST1P
		First Allied Course – II (AC)	Statistics – II	22SCACST2
		Add on Course - I	Professional English – I	22PELAS1
3	III	Core Course – III (CC)	Climatology and Oceanography	22SCCGR3
		Core Practical - III (CP)	Representation of Climatic Diagrams – Practical	22SCCGR3P
		Second Allied Course – I (AC)	Geology -1	22SCACGL1
		Add on Course –II	Professional English -II	22PELAS2
4	III	Core Course - IV (CC)	Cartography	22SCCGR4
		Core Practical - IV (CP)	Mapping, Analysis of Qualitative & Quantitative Data - Practical	22SCCGR4P
		Second Allied Practical - (AP)	Allied Practical Geology	22SCACGL1P
		Second Allied Course – II (AC)	Geology – II	22SCACGL2

5	III	Core Course - V (CC)	Human Geography	22SCCGR5
		Core Course – VI (CC)	Bio Geography	22SCCGR6
		Core Course – VII (CC)	Geography of India	22SCCGR7
		Core Practical -V (CP)	Topographical Map Analysis- Practical	22SCCGR5P
		Major Based Elective – I	1. Population Geography	22SMBEGR1A
	2. Health and wellbeing		22SMBEGR1B	
IV	Skill Based Elective - II	Disaster Studies	22SSBEGR1	
6	III	Core Course - VIII (CC)	Settlement Geography	22SCCGR8
		Core Course - IX (CC)	World Regional Geography	22SCCGR9
		Core Practical – VI (CP)	Map Projection and Surveying – Practical	22SCCGR6P
		Major Based Elective II	1. Regional Planning	22SMBEGR2A
			2. Political Geography	22SMBEGR2B
	Project	Project	22SGRPW	
IV	Skill Based Elective - II	Geography of Tourism	22SSBEGR2	

**B.Sc. GEOLOGY**

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SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Dynamic Geology	22SCCGL1
		Core Course – II (CC)	Structural Geology	22SCCGL2
		First Allied Course – I (AC)	Mathematics – 1 Calculus and Fourier Series	22SCACMM1A
2	III	Core Course – III (CC)	Palaeontology	22SCCGL3
		Core Practical – I (CP)	Structural Geology	22SCCGL1P
		First Allied Course – II (AC)	Mathematics – II Algebra, Analytical geometry (3D) and Trigonometry	22SCACMM1B
		First Allied Course – III (AC)	Mathematics – III ODE, PDE, Laplace Transforms and Vector Analysis	22SCACMM1C
		Add on Course – I	Professional English – I	22PELPS1
3	III	Core Course – IV (CC)	Physical Geology	22SCCGL4
		Core Practical - II (CP)	Palaeontology	22SCCGL2P
		Second Allied Course – I (AC)	Allied Course Chemistry - 1	22SCACCH1
			Allied course Physics - I	22SCACPH1
		Add on Course - II	Professional English – II	22PELPS2

4	III	Core Course - V (CC)	Crystallography	22SCCGL5
		Core Practical - III (CP)	Crystallography – Practical	22SCCGL3P
		Second Allied Practical – II (AP)	Chemistry - Practical Volumetric and Organic Qualitative Analysis Practical	22SCACCH1P
			Physics - Practical - I	22SCACPH1P
		Second Allied Course – III (AC)	Allied Chemistry - II	22SCACCH2
			Allied Physics - II	22SCACPH2
5	III	Core Course -VI (CC)	Mineralogy	22SCCGL6
		Core Course – VII (CC)	Stratigraphy	22SCCGL7
		Core Course – VIII (CC)	Mining Geology	22SCCGL8
		Core Practical – IV (CP)	Mineralogy	22SCCGL4P
		Major Based Elective – I	1. Engineering Geology	22SMBEGL1A
	2. Exploration Techniques		22SMBEGL1B	
IV	Skill Based Elective - II	Field Geology	22SSBEGL1	
6	III	Core Course - IX (CC)	Petrology	22SCCGL9
		Core Course - X (CC)	Economic Geology	22SCCGL10
		Core Practical – V (CP)	Petrology and Economic Geology	22SCCGL5P
		Major Based Elective II	1. Hydrogeology	22SMBEGL2A
			2. Environmental Geology	22SMBEGL2B
	Project	Project	22SGLPW	
IV	Skill Based Elective - II	Remote Sensing	22SSBEGL2	

**B.Sc. HOME SCIENCE**

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SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Food Science	22SCCHS1
		Core Practical – I (CP)	Food Science - Practical	22SCCHS1P
		First Allied Course – I (AC)	Human Physiology	22SACHS1
2	III	Core Course – II (CC)	Principles of Nutrition	22SCCHS2
		Core Practical – II (CP)	Principles of Nutrition- Practical	22SCCHS2P
		First Allied Practical (AP)	Human Physiology – Practical	22SACHS1P
		First Allied Course – II (AC)	Fundamentals of Biochemistry	22SACHS2
		Add on Course – 1	Professional English – I	22PELLS1
3	III	Core Course – III (CC)	Fundamentals of Human Development	22SCCHS3
		Core Practical - III (CP)	Fundamentals of Human Development – Practical	22SCCHS3P
		Second Allied Course – I (AC)	Early Childhood Care and Education	22SACHS3
		Add on Course – II	Professional English – II	22PEL LS2
4	III	Core Course - IV (CC)	Textile and Clothing	22SCCHS4
		Core Practical - IV (CP)	Textile and Clothing – Practical	22SCCHS4P
		Second Allied Practical – I (AP)	Early Childhood Care and Education – Practical	22SACHS2P
		Second Allied Course – II (AC)	Garment Embellishment Techniques	22SACHS4

5	III	Core Course - V (CC)	Family Resource Management	22SCCHS5
		Core Course – VI (CC)	Food Service Management	22SCCHS6
		Core Course – VII (CC)	Home Science Extension and Communication	22SCCHS7
		Core Practical -V (CP)	Family Resource Management – Practical	22SCCHS5P
		Major Based Elective – I	1. Nutrition through Life Cycle	22SMBEHS1A
	2. Community Nutrition		22SMBEHS1B	
IV	Skill Based Elective - II	Computer Application in Home Science	22SSBEHS1	
6	III	Core Course - VIII (CC)	Dietetics	22SCCHS8
		Core Course - IX (CC)	Principles of Interior Design	22SCCHS9
		Core Practical – VI (CP)	Dietetics Practical – Practical	22SCCHS6P
		Major Based Elective II	1. Food Microbiology	22SMBEHS2A
			2. Consumer Economics	22SMBEHS2B
	Project	Project	22SHSPW	
IV	Skill Based Elective - II	Fundamentals of Entrepreneurship Development	22SSBEHS2	



**B.Sc. HOSPITAL ADMINISTRATION****18**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Introduction to Hospital Services	22SCCHA1
		Core Practical – I (CP)	Hospital visit – Practical	22SCCHA1P
		First Allied Course – I (AC)	Basic Biological Science I	22SACHA1
2	III	Core Course – II (CC)	Principles of Hospital Administration I	22SCCHA2
		Core Practical – II (CP)	Patient Satisfaction (Inpatient, Out patient, OT, Overall) – Practical	22SCCHA2P
		First Allied Practical (AP)	Practical – Radiology Department (Practical, Scan, X-ray, CT, MRI) – Practical	22SACHA1P
		First Allied Course – II (AC)	Basic Biological Science II	22SACHA2
		Add on Course – 1	Professional English – I	22PELCM1
3	III	Core Course – III (CC)	Principles of Hospital Administration II	22SCCHA3
		Core Practical - III (CP)	Statistics ( Diseases, Mortality, Morbidity) – Practical	22SCCHA3P
		Second Allied Course – I (AC)	Epidemiology and Community Health	22SACHA3
		Add on Course – II	Professional English - II	22PELCM2
4	III	Core Course - IV (CC)	Principles of Economics and its Application to Hospital Services	22SCCHA4
		Core Practical - IV (CP)	Medical record Department Practical	22SCCHA4P
		Second Allied Practical (AP)	Waste Disposal Management – Practical	22SACHA2P
		Second Allied Course III (AC)	Financial Management	22SACHA4

5	III	Core Course - V (CC)	Human Resource Management	22SCCHA5
		Core Course – VI (CC)	Legal Aspects in Hospital Management	22SCCHA6
		Core Course – VII (CC)	Hospital Organisation and Research Methodology	22SCCHA7
		Core Practical -V (CP)	Legal Aspects in Hospital – Practical	22SCCHA5P
		Major Based Elective – I	1. Quality Assurance	22SMBEHA1A
	2. Biostatistics		22SMBEHA1B	
	IV	Skill Based Elective - II	Infection Control	22SSBEHA1
6	III	Core Course - VIII (CC)	Material Management	22SCCHA8
		Core Course - IX (CC)	Communication in Public Relations	22SCCHA9
		Core Practical – VI (CP)	Medical Equipment's – Practical	22SCCHA6P
		Major Based Elective II Project	Ward Administration	22SMBEHA2A
			Operation Research for Hospital Administration	22SMBEHA2B
	Project	Project	22SHAPW	
	IV	Skill Based Elective - II	Hospital Dietary Services Management	22SSBEHA2

**B.Sc. HOTEL MANAGEMENT AND CATERING SCIENCE****19**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Basic Culinary Arts	22SCCHM1
		Core Practical – I (CP)	Indian Cuisine Practical	22SCCHM1P
		First Allied Course – I (AC)	Basic Food Service	22SACHM1
2	III	Core Course – II (CC)	Front Office and Accommodation Operations I	22SCCHM2
		Core Practical – II (CP)	Front Office and Accommodation Operations - Practical	22SCCHM2P
		First Allied Practical (AP)	Basic Food Service - Practical	22SACHM1P
		First Allied Course – II (AC)	Nutrition and Food Science	22SACHM2
		Add on Course – 1	Professional English – I	22PELCM1
3	III	Core Course – III (CC)	Advanced Culinary Arts	22SCCHM3
		Core Practical - III (CP)	Continental Cuisine - Practical	22SCCHM3P
		Second Allied Course – I (AC)	Beverage Service	22SACHM3
		Add on Course – II	Professional English – II	22PELCM2
4	III	Core Course - IV (CC)	Front Office and Accommodation Operation - II	22SCCHM4
		Core Practical - IV (CP)	Front Office and Accommodation Operation II – Practical	22SCCHM4P
		Second Allied Practical (AP)	Beverage Service - Practical	22SACHM2P
		Second Allied Course -II(AC)	Specialized Food Service	22SACHM4

5	III	Core Course -V (CC)	Bakery and Confectionery	22SCCHM5
		Core Course – VI (CC)	Food Preservation and Safety	22SCCHM6
		Core Course – VII (CC)	Hospitality Marketing	22SCCHM7
		Core Practical -V (CP)	Bakery and confectionary – Practical	22SCCHM5P
		Major Based Elective I	1. Facility Management	22SMBEHM1A
	2. Event Management		22SMBEHM1B	
IV	Skill Based Elective - II	Tourism in India	22SSBEHM1	
6	III	Core Course - VIII (CC)	Human Resource Management	22SCCHM8
		Core Course - IX (CC)	Enterpreneurial Development	22SCCHM9
		Core Practical – VI (CP)	International Cuisine – Practical	22SCCHM6P
		Major Based Elective II Project	Hotel Accounts	22SMBEHM2A
			HACCP Practices	22SMBEHM2B
	Project	Project	22SHMPW	
IV	Skill Based Elective - II	International Tourism	22SSBEHM2	

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Programming in C and Data Structures	22SCCIT1
		Core Practical – I (CP)	Programming in C Practical	22SCCIT1P
		First Allied Course – I (AC)	Mathematics –I Algebra and Calculus	22SCACMM2 A
2.	III	Core Course – II (CC)	Programming in Java	22SCCIT2
		Core Practical - II(CP)	Programming in Java Practical	22SCCIT2P
		First Allied Course – II (AC)	Mathematics – II Numerical Analysis and Probability	22SCACMM2 B
		First Allied Course – III (AC)	Mathematics – III Operation Research	22SCACMM2 C
		Add on Course – 1	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Database Management Systems	22SCCIT3
		Core Practical - III (CP)	Database Management Systems Practical	22SCCIT3P
		Second Allied Course – I (AC)	Applied Physics I	22SCACAP1
		Add on Course – II	Professional English II	22PELPS2
4	III	Core Course - IV (CC)	ASP Dot Net	22SCCIT4
		Core Practical - IV (CP)	ASP Dot Net - Practical	22SCCIT4P
		Second Allied Practical – II (AP)	Applied Physics I - Practical	22SCACAP1P
		Second Allied Course – III (AC)	Applied Physics - II	22SCACAP2

5	III	Core Course - V (CC)	Principles of Information Technology	22SCCIT5
		Core Course – VI (CC)	Operating System	22SCCIT6
		Core Course – VII (CC)	Software Engineering	22SCCIT7
		Core Practical -V (CP)	Linux Practical	22SCCIT5P
		Major Based Elective – I	1. Internet of Things	22SMBEIT1A
	2. Multimedia System		22SMBEIT1B	
IV	Skill Based Elective - II	Programming in Python	22SSBEIT1	
6	III	Core Course - VIII (CC)	Computer Networks	22SCCIT8
		Core Course - IX (CC)	Mean Stack Webapp Development	22SCCIT9
		Core Practical – VI (CP)	Mean Stack Webapp Practical	22SCCIT6P
		Major Based Elective II	Cyber Security	22SMBEIT2A
			Cloud Computing	22SMBEIT2B
		Project	Project	22SITPW
	IV	Skill Based Elective - II	Mobile Application Development	22SSBEIT2

**B.Sc. INTERIOR DESIGN****21**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Fundamentals of Design	22SCCID1
		Core Practical – I (CP)	Design sketching and Visual Art – Practical	22SCCID1P
		First Allied Course – I (AC)	Building components and Materials	22SACID1
2.	III	Core Course – II (CC)	Planning the Life Space	22SCCID2
		Core Practical - II(CP)	Model Making Studio – Practical	22SCCID2P
		First Allied Practical (AP)	Drafting and Representation Techniques – Practical	22SACID1P
		First Allied Course – II (AC)	Interior Components and Materials	22SACID2
		Add on Course – 1	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Interior Space Planning	22SCCID3
		Core Practical - III (CP)	Interior Space Planning Studio – Practical	22SCCID3P
		Second Allied Course – I (AC)	Lighting and Light Fixtures	22SACID3
		Add on Course – II	Professional English - II	22PELPS2
4	III	Core Course - IV (CC)	Furniture Design	22SCCID4
		Core Practical - IV (CP)	Furniture Design and Detailing Studio - Practical	22SCCID4P
		Second Allied Practical – II (AP)	Computer Aided Drafting and Design – Practical	22SACID2P
		Second Allied Course – II (AC)	Landscape Design for Interiors	22SACID4

5	III	Core Course - V (CC)	Commercial Space Design	22SCCID5
		Core Course – VI (CC)	Building Services for Interiors	22SCCID6
		Core Course – VII (CC)	Introduction to Interior Architecture	22SCCID7
		Core Practical -V (CP)	Advanced Computer Applications – Practical	22SCCID5P
		Major Based Elective – I	1. Set Design and Art Direction (or) 2. Kitchen Design	22SMBEID1A 22SMBEID1B
	IV	Skill Based Elective - II	Pottery and Terracotta	22SSBEID1
6	III	Core Course - VIII (CC)	Building Design and Planning	22SCCID8
		Core Course - IX (CC)	Specification and Estimation	22SCCID9
		Core Practical – VI (CP)	Retail Furniture Design Studio – Practical	22SCCID6P
		Major Based Elective II	1. Design Management (or)	22SMBEID2A
			2. Codes and Practices	22SMBEID2B
	Project	Project	22SIDPW	
IV	Skill Based Elective - II	Portfolio Design and Presentation	22SSBEID2	



**B.L.I.Sc (Library and Information Science)**

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SEM	COURSE	TITLE OF THE PAPER	SUBJECT CODE
I	Core Course I (CC)	Information, Communication and Knowledge Society	22SCCLS1
	Core Course II (CC)	Knowledge Organization Theory I: Classification	22SCCLS2
	Core Choice Course I – (CCC)	1. Information Resources	22SCCCLS1A
		2. Open Educational Resources	22SCCCLS1B
	Core Practical I (CP)	Knowledge Organization Practice-I: CC & DDC – Practical	22SCCLS1P
Elective Course I – (EC)	Information Technology in Libraries	22SECLS1	
II	Core Course III – (CC)	Management of Library and Information Centres	22SCCLS3
	Core Course IV – (CC)	Knowledge Organization: Theory II: Cataloguing	22SCCLS4
	Core Choice Course II– (CC)	1. Information System and Services	22SCCCLS2A
		2. Academic Library System	22SCCCLS2B
	Core Practical II – (CP)	Knowledge Organization- Practice: II AACR II and CCC – Practical	22SCCLS2P
Elective Course II – (EC)	Automation of Library and Information Centre	22SECLS2	

**REVISED****B.Sc. MATHEMATICS**

23

SEM		COURSE	TITLE OF THE PAPER	SUBJECT CODE
I	III	Core Course – I (CC)	Differential Calculus and Trigonometry	22SCCMM1
		Core Course – II (CC)	Integral Calculus and Fourier Series	22SCCMM2
		First Allied Course – I (AC)	Computer Science – I Programming in C	22SCACCS1
			Physics –I	22SCACPH1
			Financial Accounting – I Principles of Accounting	22SCACFA1
2	III	Core Course – III (CC)	Differential Equations	22SCCMM3
		Core Course – IV (CC)	Analytical Geometry 3D	22SCCMM4
		First Allied Practical (AP)	Computer Science – I Programming in C Practical	22SCACCS1P
			Physics Practical	22SCACPH1P
		First Allied Course – II (AC)	Financial Accounting – II Fundamentals of Financial Accounting	22SCACFA2
		First Allied Course – II (AC)	Computer Science – II Principles of Information Technology	22SCACCS2
			Physics – II	22SCACPH2
		First Allied Course – III (AC)	Financial Accounting–III Fundamentals of Corporate Accounting	22SCACFA3
Add on Course – 1	Professional English – I	22PELPS1		
3	III	Core Course – V (CC)	Classical Algebra and Theory of Numbers	22SCCMM5
		Core Course – VI (CC)	Sequence and Series	22SCCMM6
		Second Allied Course – I (AC)	Chemistry	22SCACCH1
			Mathematical Statistics	22SCACMS1
			Management Accounting	22SCACMA1
		Add on Course – II	Professional English – II	22PELPS2

4	III	Core Course - VII (CC)	Vector Calculus and Laplace Transforms	22SCCMM7
		Core Course – VIII (CC)	Abstract Algebra	22SCCMM8
		Second Allied Practical (AP)	Chemistry - Practical	22SCACCH1P
			Mathematical Statistics – Practical	22SCACMS1P
		Second Allied Course – II (AC)	Management Accounting	22SCACMA2
		Second Allied Course – II (AC)	Chemistry	22SCACCH2
			Mathematical Statistics	22SCACMS2
		Second Allied Course – II (AC)	Management Accounting	22SCACMA3
5	III	<b><u>Core Course -IX (CC) *</u></b>	<b><u>Numerical Methods and MATLAB</u></b>	<b><u>22SCCMM9</u></b>
		Core Course – X (CC)	Real Analysis	22SCCMM10
		Core Course – XI (CC)	Statics	22SCCMM11
		<b><u>Core Practical – I (CP) *</u></b>	<b><u>MATLAB Programming Practical</u></b>	<b><u>22SCCMM1P</u></b>
		Major Based Elective – I	Operations Research	22SMBEMM1A
	Stochastic Processes		22SMBEMM1B	
	IV	Skill Based Elective – II	Introduction to Latex	22SSBEMM1
6	III	Core Course - XII (CC)	Linear Algebra	22SCCMM12
		Core Course - XIII (CC)	Complex Analysis	22SCCMM13
		Core Course - XIV (CC)	Dynamics	22SCCMM14
		Major Based Elective II	1. Graph Theory	22SMBEMM2A
			2. Introduction to Python Programming	22SMBEMM2B
		Major Based Elective III	1. Astronomy	22SMBEMM3A
	2. Number Theory		22SMBEMM3B	
	IV	Skill Based Elective – II	Mathematics for Competitive Examinations	22SSBEMM2

**Note: \* Revised as on 03.10.2023**

**CONTROLLER OF EXAMINATIONS**

**B.Sc. MICROBIOLOGY**

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SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Basics of Microbiology	22SCCMB1
		Core Practical – I (CP)	Basics of Microbiology - Practical	22SCCMB1P
		First Allied Course – I (AC)	Fundamentals of Biological Sciences	22SACMB1
2.	III	Core Course – II (CC)	Microbial Physiology	22SCCMB2
		Core Practical – II (CP)	Microbial Physiology – Practical	22SCCMB2P
		First Allied Course (AP)	Fundamentals of Biological Sciences & General Biochemistry – Practical	22SACMB1P
		First Allied Course – II (AC)	General Biochemistry	22SACMB2
		Add on Course – 1	Professional English – I	22PEL1S1
3	III	Core Course – III (CC)	Introductory Virology	22SCCMB3
		Core Practical – III (CP)	Introductory Virology – Practical	22SCCMB3P
		Second Allied Course - I (AC)	Biostatistics	22SACMB3
		Add on Course – II	Professional English - II	22PEL1S2
4	III	Core Course – IV (CC)	Immunology	22SCCMB4
		Core Practical – IV (CP)	Immunology – Practical	22SCCMB4P
		Second Allied Practical (AP)	Biostatistics & Bioinformatics and Computational Biology-Practical	22SACMB2P
		Second Allied Course – II (AC)	Bioinformatics and Computational Biology	22SACMB4

5	III	Core Course –V (CC)	Medical Microbiology	22SCCMB5
		Core Course – VI(CC)	Environment and Agricultural Microbiology	22SCCMB6
		Core Course – VII(CC)	Molecular Biology and Microbial Genetics	22SCCMB7
		Core Practical –V (CP)	Medical Microbiology, Environment and Agricultural Microbiology & Molecular Biology and Microbial Genetics – Practical	22SCCMB5P
		Major Based Elective – I	1. Diagnostic Microbiology	22SMBEMB1A
	2. Pharmaceutical Microbiology		22SMBEMB1B	
IV	Skill Based Elective - II	Mushroom Technology	22SSBEMB1	
6	III	Core Course – VIII (CC)	Food Microbiology	22SCCMB8
		Core Course – IX (CC)	Industrial Microbiology	22SCCMB9
		Core Practical – VI(CP)	Food Microbiology and Industrial Microbiology – Practical	22SCCMB6P
		Major Based Elective II	1. Recombinant DNA Technology	22SMBEMB2A
			2. Microbial Biotechnology & Bioethics	22SMBEMB2B
	Project	Project	22SMBPW	
IV	Skill Based Elective - II	Bio-fertilizers Technology	22SSBEMB2	

**B.Sc. NUTRITION AND DIETETICS - 25**

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Food Science	22SCCND1
		Core Practical – I (CP)	Food Science – Practical	22SCCND1P
		First Allied Course – I (AC)	Food Microbiology	22SACND1
2.	III	Core Course – II (CC)	Human Physiology	22SCCND2
		Core Practical – II (CP)	Human Physiology – Practical	22SCCND2P
		First Allied Practical (AP)	Food Microbiology and Food Chemistry – Practical	22SACND1P
		First Allied Course – II (AC)	Food Chemistry	22SACND2
		Add on Course – 1	Professional English – I	22PELLS1
3	III	Core Course – III (CC)	Principles of Nutrition	22SCCND3
		Core Practical - III (CP)	Principles of Nutrition – Practical	22SCCND3P
		Second Allied Course – I (AC)	Fundamentals of Biochemistry	22SACND3
		Add on Course – II	Professional English – II	22PELLS2
4	III	Core Course - IV (CC)	Nutrition through Life Cycle	22SCCND4
		Core Practical - IV (CP)	Nutrition through Life Cycle – Practical	22SCCND4P
		Second Allied Practical (AP)	Fundamentals of Biochemistry and Food Processing and Preservation – Practical	22SACND2P
		Second Allied Course – II (AC)	Food Processing and Preservation	22SACND4

5	III	Core Course - V (CC)	Dietetics I	22SCCND5
		Core Course – VI (CC)	Food Service Management I	22SCCND6
		Core Course – VII (CC)	Bakery and Confectionary	22SCCND7
		Core Practical -V (CP)	Dietetics I – Practical	22SCCND5P
		Major Based Elective – I	1. Food Standars Quality and Control	22SMBEND1A
	2. Functional Foods and Nutraceuticals		22SMBEND1B	
IV	Skill Based Elective - II	Principles of Interior Design	22SSBEND1	
6	III	Core Course - VIII (CC)	Dietetics II	22SCCND8
		Core Course - IX (CC)	Food Service Management II	22SCCND9
		Core Practical – VI (CP)	Dietetics II – Practical	22SCCND6P
		Major Based Elective II	1. Community Nutrition	22SMBEND2A
			2. Food Product Development	22SMBEND2B
	Project	Dietary Internship	22SNDPW	
IV	Skill Based Elective - II	Textile Science	22SSBEND2	

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	History and Foundations of Physical Education	22SCCPE1
		Core Practical – I (CP)	Major Games-I (Ball Badminton, Kabaddi & Kho - Kho) – Practical	22SCCPE1P
		First Allied Course – I (AC)	Anatomy and Physiology	22SACPE1
2.	III	Core Course – II (CC)	Exercise Physiology	22SCCPE2
		Core Practical - II(CP)	Major Games-II (Basketball, Handball & Volleyball) – Practical	22SCCPE2P
		First Allied Practical (AP)	Yoga & Indigenous Activities I & II (Yoga & Indigenous Activities II: Dands, Baithaks, Lezium & Minor Games) – Practical	22SACPE1P
		First Allied Course – II (AC)	Computer Applications	22SACPE2
		Add on Course – 1	Professional English – I	22PELAS1
3	III	Core Course – III (CC)	Sports Training	22SCCPE3
		Core Practical - III (CP)	Major Games-III (Badminton, Table Tennis and Tennis) – Practical	22SCCPE3P
		Second Allied Course – I (AC)	Sports Psychology	22SACPE3
		Add on Course – II	Professional English – II	22PELAS2
4	III	Core Course - IV (CC)	Test and Measurement in Physical Education	22SCCPE4
		Core Practical - IV (CP)	Major Games-IV (Cricket, Football and Hockey) – Practical	22SCCPE4P
		Second Allied Practical (AP)	Mass Demonstration Activities I& II (Mass Demonstration Activities II: Light Apparatus, Aerobics & Gymnastics) – Practical	22SACPE2P
		Second Allied Course – II (AC)	Health Education and First-aid	22SACPE4



5	III	Core Course - V (CC)	Sports Management	22SCCPE5
		Core Course – VI (CC)	Kinesiology & Sports Biomechanics	22SCCPE6
		Core Course – VII (CC)	Theories of Games	22SCCPE7
		Core Practical -V (CP)	Athletics - Track Events – Practical	22SCCPE5P
		Major Based Elective – I	1. Counselling in Sports	22SMBEPE1A
	2. Sports Journalism		22SMBEPE1B	
IV	Skill Based Elective - II	Fundamentals of Yogic Practices (or) Stress Management Through Yoga	22SSBEPE1A Or 22SSBEPE1B	
6	III	Core Course - VIII (CC)	Sports Entrepreneurship	22SCCPE8
		Core Course - IX (CC)	Theories of Track and Field	22SCCPE9
		Core Practical – VI (CP)	Athletics -Field Events – Practical	22SCCPE6P
		Major Based Elective II	1. Adapted Physical Education	22SMBEPE2A
			2. Talent Identification	22SMBEPE2B
	Project	Project	22SPEPW	
IV	Skill Based Elective - II	Asanas and pranayamas – I Or Asanas and pranayamas - II	22SSBEPE2A Or 22SSBEPE2B	

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Properties of Matter and Acoustics	22SCCPH1
		Core Practical – I(CP)	Properties of Matter – Practical	22SCCPH1P
		First Allied Course – I (AC)	Mathematics – I Calculus and Fourier Series	22SCACMM1A
2.	III	Core Course – II (CC)	Mechanics and Theory of Relativity	22SCCPH2
		Core Practical – II (CP)	General Physics I – Practical	22SCCPH2P
		First Allied Course – II (AC)	Mathematics –II Algebra, Analytical Geometry (3D) and Trigonometry	22SCACMM1B
		First Allied Course – III(AC)	Mathematics –III ODE, PDE, Laplace Transforms and Vector Analysis	22SCACMM1C
		Add on Course – 1	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Thermal Physics	22SCCPH3
		Core Practical - III (CP)	General Physics II – Practical	22SCCPH3P
		Second Allied Course – I (AC)	Chemistry – I	22SCACCH1
			Computer Science – I Programming in C	22SCACCS1
		Add on Course – II	Professional English – II	22PELPS2
4	III	Core Course - IV (CC)	Electricity and Magnetism	22SCCPH4
		Core Practical - IV (CP)	Electricity – Practical	22SCCPH4P
		Second Allied Course (AP)	Volumetric and organic Qualitative Analysis – Practical	22SCACH1P
			Programming in C Practical	22SCACCS1P
		Second Allied Course – II (AC)	Chemistry – II	22SCACCH2
			Principles of Information Technology	22SCACCS2

5	III	Core Course -V (CC)	Optics	22SCCPH5
		Core Course – VI (CC)	Atomic and Molecular Physics	22SCCPH6
		Core Course – VII (CC)	Electronics	22SCCPH7
		Core Practical -V (CP)	Optics and Digital Electronics – Practical	22SCCPH5P
		Major Based Elective – I	1. Solid State Physics	22SMBEPH1A
	2. Laser Physics		22SMBEPH1B	
IV	Skill Based Elective - II	Electrical Wiring Fundamentals	22SSBEPH1	
6	III	Core Course - VIII (CC)	Nuclear Physics	22SCCPH8
		Core Course - IX (CC)	Theoretical Physics	22SCCPH9
		Core Practical – VI (CP)	Electronics, Microprocessor and Programming – Practical	22SCCPH6P
		Major Based Elective II Project	1. Microprocessor and C Programming	22SMBEPH2A
			2. Nanotechnology	22SMBEPH2B
	Project	Project	22SPHPW	
IV	Skill Based Elective - II	Domestic Electrical Appliances and Measuring Instruments	22SSBEPH2	

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Basic Psychology I	22SCCPSY1
		Core Practical – I (CP)	Psychology I – Practical	22SCCPSY1P
		First Allied Course – I (AC)	Foundations of Sociology	22SACPSY1
2.	III	Core Course – II (CC)	Basic Psychology II	22SCCPSY2
		Core Practical – II (CP)	Psychology II – Practical	22SCCPSY2P
		First Allied Course – II (AC)	Statistics in Psychology	22SACPSY2
		First Allied Course – III (AC)	Social Psychology	22SACPSY3
		Add on Course – 1	Professional English – I	22PELAS1
3	III	Core Course – III (CC)	Physiological Psychology I	22SCCPSY3
		Core Practical - III (CP)	Five Practical (Social Psychological)	22SCCPSY3P
		Second Allied Course – I (AC)	Principles of Public Administration	22SACPSY4
		Second Allied Course – II (AC)	Foundations of Criminology	22SACPSY5
		Add on Course – II	Professional English – II	22PELAS2
4	III	Core Course - IV (CC)	Physiological Psychology II	22SCCPSY4
		Core Practical - IV (CP)	Psychology IV – Practical	22SCCPSY4P
		Second Allied Course – II (AP)	Foundations of Criminology – Practical	22SACPSY1P
		Second Allied Course – III (AC)	Principles of Yoga	22SACPSY5

5	III	Core Course - V (CC)	Developmental Psychology I	22SCCPSY5
		Core Course – VI (CC)	Abnormal psychology I	22SCCPSY6
		Core Course – VII (CC)	Organization Behaviour	22SCCPSY7
		Core Practical -V (CP)	Psychology Practical V	22SCCPSY5P
		Major Based Elective – I	1. Counselling Psychology I	22SMBEPSY1A
2. Sports Psychology	22SMBEPSY1B			
IV	Skill Based Elective - II	Consumer Behavior	22SSBEPSY1	
6	III	Core Course - VIII (CC)	Developmental Psychology II	22SCCPSY8
		Core Course - IX (CC)	Abnormal Psychology II	22SCCPSY9
		Core Practical – VI (CP)	Case Analysis – Practical	22SCCPSY6P
		Major Based Elective II	1. Counselling Psychology II	22SMBEPSY2A
			2. Human Resource Management	22SMBEPSY2B
	Project	Case Analysis	22SPSYPW	
IV	Skill Based Elective - II	Educational Psychology	22SSBEPSY2	

SEM	COURSE	TITLE OF THE PAPER	SUBJECT CODE
I	Core Course – I (CC)	Programming in C and Data Structures	22SCCSD1
	Core Practical – I (CP)	Programming in C Practical	22SCCSD1P
	First Allied Course – I (AC)	Mathematics –I Algebra and Calculus	22SCACMM2A
II	Core Course – II (CC)	Programming in Java	22SCCSD2
	Core Practical – II (CP)	Programming in Java Practical	22SCCSD2P
	First Allied Course – II (AC)	Mathematics – II Numerical Analysis and Probability	22SCACMM2B
	First Allied Course – III (AC)	Mathematics – III Operation Research	22SCACMM2C

Professional English - I

22PELPS1 &amp; 22PELPS2

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Descriptive Statistics	22SCCST1
		Core Practical – I (CP)	Statistical Practical I	22SCCST1P
		First Allied Course – I (AC)	Mathematics – I Calculus and Fourier Series –	22SCACMM3A
2.	III	Core Course – II (CC)	Probability Theory	22SCCST2
		Core Practical – II (CP)	Statistical Practical II	22SCCST2P
		First Allied Course – II (AC)	Mathematics – II Algebra	22SCACMM3B
		First Allied Course – III (AC)	Mathematics – III Analysis and Theory of Equations	22SCACMM3C
		Add on Course – 1	Professional English – I	22PELPS1
3	III	Core Course – III (CC)	Theoretical Discrete Distributions	22SCCST3
		Core Practical – III (CP)	Statistics Practical III	22SCCST3P
		Second Allied Course – I (AC)	Computer Science – I Programming in C	22SCACCS1
		Add on Course – II	Professional English - II	22PELPS2
4	III	Core Course – IV (CC)	Theoretical Continuous Distributions	22SCCST4
		Core Practical – IV (CP)	Statistics Practical IV	22SCCST4P
		Second Allied Practical (AP)	Programming in C Practical	22SCACCS1P
		Second Allied Course – II (AC)	Principles of Information Technology	22SCACCS2

5	III	Core Course –V (CC)	Sampling Theory	22SCCST5
		Core Course – VI (CC)	Statistical Inference I	22SCCST6
		Core Course – VII(CC)	Design of Experiments	22SCCST7
		Core Practical –V (CP)	Statistics Practical V	22SCCST5P
		Major Based Elective – I	1.Numerical Methods	22SMBEST1A
	2.Statistical Quality Control		22SMBEST1B	
IV	Skill Based Elective - II	Demography	22SSBEST1	
6	III	Core Course – VIII (CC)	Statistical Inference II	22SCCST8
		Core Course – IX (CC)	Operations Research	22SCCST9
		Core Practical – VI(CP)	Statistics Practical VI	22SCCST6P
		Major Based Elective II	1. Applied Statistics	22SMBEST2A
			2.Regression Analysis	22SMBEST2B
	Project	Project	22SSTPW	
IV	Skill Based Elective - II	Communication and Interpersonal Skills	22SSBEST2	



SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Textile Science	22SCCTS1
		Core Practical – I (CP)	Fibre Analysis – Practical	22SCCTS1P
		First Allied Course –I (AC)	Introduction to Fashion Designing	22SACTS1
2.	III	Core Course – II (CC)	Yarn Manufacture I	22SCCTS2
		Core Practical– II (CP)	Fashion Sketching – Practical	22SCCTS2P
		First Allied Practical (AP)	Surface Enrichment – Practical	22SACTS1P
		First Allied Course – II (AC)	Traditional Indian Textiles and Costumes	22SACTS2
		Add on Course – 1	Professional English – I	22PELTS1
3	III	Core Course – III (CC)	Yarn Manufacture – II	22SCCTS3
		Core Practical - III (CP)	Yarn Manufacture – Practical	22SCCTS3P
		Second Allied Course – I (AC)	Computer Aided Designing	22SACTS3
		Add on Course – II	Professional English – II	22PELPS2
4	III	Core Course - IV (CC)	Fabric Manufacture –I	22SCCTS4
		Core Practical - IV (CP)	Fashion Portfolio Presentation – Practical	22SCCTS4P
		Second Allied Practical (AP)	Computer Aided Fashion Designing – Practical	22SACTS4P
		Second Allied Course – II (AC)	Draping Techniques	22SACTS4

5	III	Core Course -V (CC)	Textile Wet Processing	22SCCTS5
		Core Course – VI (CC)	Fabric Manufacture II & Knitting	22SCCTS6
		Core Course – V (CP)	Textile Wet Processing – Practical	22SCCTS5P
		Core Practical -VI (CP)	Fabric Manufacture – Practical	22SCCTS6P
		Major Based Elective – I	1. Fabric Structure and Design	22SMBETS1A
	2. Entrepreneurial development		22SMBETS1B	
IV	Skill Based Elective - II	Marketing and Merchandising	22SSBETS1	
6	III	Core Course - VII (CC)	Textile Testing	22SCCTS7
		Core Course - VIII (CC)	Garment Manufacture Technology	22SCCTS8
		Core Practical – VII (CP)	Textile Testing – Practical	22SCCTS7P
		Major Based Elective II	1. Modern Textile Manufacture	22SMBETS2A
			2. Export documentation	22SMBETS2B
	Project	Project	22STSPW	
IV	Skill Based Elective - II	Boutique Management	22SSBETS2	

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Introduction to Visual Communication	22SCCVC1
		Core Practical – I (CP)	Drawing – Practical	22SCCVC1P
		First Allied Course – I (AC)	Effective Communication	22SACVC1
2.	III	Core Course – II (CC)	Advertising	22SCCVC2
		Core Practical – II (CP)	Art and Illustration – Practical	22SCCVC2P
		First Allied Practical (AP)	Communication Skills – Practical	22SACVC1P
		First Allied Course – II (AC)	Indian Art and Aesthetics	22SACVC2
		Add on Course – I	Professional English – I	22PELAS1
3	III	Core Course – III (CC)	Photography	22SCCVC3
		Core Practical - III (CP)	Photography Techniques – Practical	22SCCVC3P
		Second Allied Course - I (AC)	Media, Culture and Society	22SACVC3
		Add on Course – II	Professional English – II	22PELAS2
4	III	Core Course - IV (CC)	Elements of Film	22SCCVC4
		Core Practical - IV (CP)	Web Designing – Practical	22SCCVC4P
		Second Allied Practical (AP)	Computer Graphics Practical	22SACVC2P
		Second Allied Course -II(AC)	Graphic Design	22SACVC4
5	III	Core Course - V (CC)	Introduction to New Media	22SCCVC5
		Core Course – VI (CC)	Visual Analysis Techniques	22SCCVC6
		Core Course – VII (CC)	Scriptwriting	22SCCVC7
		Core Practical -V (CP)	Television Production – Practical	22SCCVC5P
		Major Based Elective – I	1. Photo journalism	22SMBEVC1A
	2. Online Journalism		22SMBEVC1B	
	IV	Skill Based Elective - II	Corporate Communication	22SSBEVC1
6	III	Core Course - VIII (CC)	Media laws and Ethics	22SCCVC8
		Core Course - IX (CC)	Basics of Media Research	22SCCVC9
		Core Practical – VI (CP)	Multimedia & Animation – Practical	22SCCVC6P
		Major Based Elective II	1. Video Editing Techniques	22SMBEVC2A
			2. Mobile Journalism	22SMBEVC2B
		Project	Project	22SVCPW
	IV	Skill Based Elective - II	Event Management	22SSBEVC2

SEM	PART	COURSE	TITLE OF THE PAPER	SUBJECT CODE
1	III	Core Course – I (CC)	Invertebrata	22SCCZO1
		Core Practical – I (CP)	Invertebrata – Practical	22SCCZO1P
		First Allied Course – I (AC)	Botany - I Plant Diversity, Anatomy and Embryology	22SCACBO1
2.	III	Core Course – II (CC)	Chordata	22SCCZO2
		Core Practical – II(CP)	Chordata Practical	22SCCZO2P
		First Allied Practical (AP)	Botany Practical - I Plant Diversity, Anatomy and Embryology & Taxonomy, Physiology, Ecology and Biotechnology – Practical	22SCACBO1P
		First Allied Course – II (AC)	Botany II Taxonomy, Physiology, Ecology and Biotechnology	22SCACBO2
		Add on Course – 1	Professional English – I	22PELLS1
3	III	Core Course – III (CC)	Cell and Molecular Biology	22SCCZO3
		Core Practical - III (CP)	Cell and Molecular Biology – Practical	22SCCZO3P
		Second Allied Course-I (AC)	Chemistry - I	22SCACCH1
		Add on Course – II	Professional English - II	22PELLS2
4	III	Core Course - IV (CC)	Microbiology	22SCCZO4
		Core Practical - IV (CP)	Microbiology – Practical	22SCCZO4P
		Second Allied Practical (AP)	Volumetric and Organic Qualitative Analysis – Practical	22SCACCH1P
		Second Allied Course-II (AC)	Chemistry – II	22SCACCH2

5	III	Core Course -V (CC)	Developmental Biology	22SCCZO5
		Core Course – VI (CC)	Genetics and Evolution	22SCCZO6
		Core Course – VII (CC)	Immunology	22SCCZO7
		Core Practical -V (CP)	Developmental Biology, Genetics and Evolution & Immunology – Practical	22SCCZO5P
		Major Based Elective I	1. Aquatic Biology	22SMBEZO1A
	2. Biodiversity and Conservation		22SMBEZO1B	
IV	Skill Based Elective - II	Aquarium Fish Keeping	22SSBEZO1	
6	III	Core Course - VIII (CC)	Animal Physiology	22SCCZO8
		Core Course - IX (CC)	Biotechnology	22SCCZO9
		Core Practical – VI (CP)	Animal Physiology and Biotechnology – Practical	22SCCZO6P
		Major Based Elective II	1. Environmental Biology	22SMBEZO2A
			2. Applied Entomology	22SMBEZO2B
	Project	Project	22SZOPW	
IV	Skill Based Elective - II	Medical Diagnostics	22SSBEZO2	

