III Semester Program Structure
B.Sc. (Honours) Mathematics

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Group Theory	4	40	60	100
	6. Numerical Methods	4	40	60	100
	7. Laplace Transforms	4	40	60	100
	8.Special Functions	4	40	60	100
II. Minor	2.(i) Physics: Optics (T)	3	40	60	100
	.(i) Physics: Optics Lab	1	10	40	50
	2.(ii) Chemistry: Fundamentals of Orgonic Chemistry (T)	3	40	60	100
	2.(ii) Chemistry: Fundamentals of Orgonic Chemistry Lab	1	10	40	50
III. SEC	5. Information and communication Technology	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : **7**		24	Max. Marks: **650**		

- Total Credits : 24
- Total Hours : 29

III Semester Program Structure
B.Sc. (Honours) Physics

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Optics	4	40	60	100
	Optics Lab	1	10	40	50
	6. Heat and Thermodynamics	4	40	60	100
	Heat and Thermodynamics Lab	1	10	40	50
	7. Electricity and Magnetism	4	40	60	100
	Electricity and Magnetism Lab	1	10	40	50
	8. Modern Physics	4	40	60	100
	Modern Physics Lab	1	10	40	50
II. Minor	2.(i) Mathematics: Group Theory	4	40	60	100
	2.(ii) Chemistry: Fundamentals of Organic Chemistry (T)	3	40	60	100
	Fundamentals of Orgonic Chemistry Lab	1	10	40	50
III. SEC	5. Information and Communication Technology	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : **7**		24	Max. Marks: 800 or 850		

- Total Credits : 24
- Total Hours : 29

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III Semester Program Structure
B.Sc. (Honours) Chemistry

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Fundamentals of Organic Chemistry	3	40	60	100
	Fundamentals of Organic Chemistry Lab	1	10	40	50
	6. Organic Chemistry (**Halogen & Orgonic Compounds**)	3	40	60	100
	Orgonic Chemistry Lab	1	10	40	50
	7. Physical Chemistry	3	40	60	100
	Physical Chemistry Lab	1	10	40	50
	8.Inorgonic and Physical Chemistry	3	40	60	100
	Inorganic and Physical Chemistry Lab La	1	10	40	50
II. Minor	2.(i) Mathematics: Group Theory	4	40	60	100
	2.(ii) Physics : Optics	3	40	60	100
	Optics lab	1	10	40	50
III. SEC	5. Information and communication Technology	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : **7**		24	Max. Marks: 800 or 850		

- Total Credits : 24
- Total Hours : 29

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III Semester Program Structure
B.Sc. (Honours) Zoology

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Animal Diversity II- Biology of Chordates	3	40	60	100
	Lab	1	10	40	50
	6. Principles of Genetics	3	40	60	100
	Principles of Genetics Lab	1	10	40	50
	7.Animal Biotechnology	3	40	60	100
	Animal Biotechnology Lab	1	10	40	50
	8. Evolution& Zoogeography	3	40	60	100
	Evolution& Zoogeography Lab	1	10	40	50
II.Minor	2.(i) Botany: Vascular Plants	3	40	60	100
	Vascular Plants Lab	1	10	40	50
	2.(ii) Chemistry: Fundamentals of Orgonic Chemistry (T)	3	40	60	100
	Fundamentals of Orgonic Chemistry Lab	1	10	40	50
III. SEC	5. Information and communication Technology	2	10	40	50
IV.MDC	2. Principles of Management	2	10	40	50
Total Courses : **7**		24	Max. Marks: 850		

- Total Credits : 24
- Total Hours : 29

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II Semester Program Structure
B.Sc. (Honours) Microbiology

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5.Eukaryotic Microorganisms Eukaryotic Microorganisms Lab	3 1	40 10	60 40	100 50
	6. Biomolecules & Enzymology Biomolecules & Enzymology Lab	3 1	40 10	60 40	100 50
	7. Microbial & Analytical Techniques Lab	3 1	40 10	60 40	100 50
	8.Cell Biology and Genetics Lab	3 1	40 10	60 40	100 50
II. Minor	2.(i) Botany: Vascular Plants Vascular Plants Lab	3 1	40 10	60 40	100 50
	2.(ii) Chemistry: Fundamentals of Orgonic Chemistry (T) Lab	3 1	40 10	60 40	100 50
	2.(iii) Zoology: Animal Diversity II Lab	3 1	40 10	60 40	100 50
III. SEC	5. Information and communication Technology	2	10	40	50
IV.MDC	2. Principles of Management	2	10	40	50
Total Courses : **7**		24	Max. Marks: 850		

- Total Credits : 24
- Total Hours : 29

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III Semester Program Structure
B.Sc. (Honours) Biotechnology

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5.Plants and Animal Biotechnology	4	40	60	100
	Plants and Animal Biotechnology Lab	1	10	40	50
	6. Molecular Biology	4	40	60	100
	Molecular Biology Lab	1	10	40	50
	7. Genetic Engineering	4	40	60	100
	Genetic Engineering Lab	1	10	40	50
	8.Metabolism	4	40	60	100
	Metabolism Lab	1	10	40	50
II. Minor	2.(i) Microbiology: Biomolecules & Enzymology	3	40	60	100
	Lab	1	10	40	50
	2.(ii) Zoology: Animal Diversity II	3	40	60	100
	Lab	1	10	40	50
	2.(iii) Chemistry: Fundamentals of Organic Chemistry (T)	3	40	60	100
	Lab	1	10	40	50
III. SEC	5. Information and communication Technology	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : **7**		24	Max. Marks: 850		

- Total Credits : 24
- Total Hours : 29

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III Semester Program Structure
B.Sc. (Honours) Computer Science

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Object Oriented Program using java Lab	3 1	40 10	60 40	100 50
	6. Data Structures using C Lab	3 1	40 10	60 40	100 50
	7. Computer Organization Lab	3 1	40 10	60 40	100 50
	8. Operating Systems Lab	3 1	40 10	60 40	100 50
II. Minor	2.(i) Mathematics: Group Theory	4	40	60	100
	2.(ii) Physics : Optics Optics lab	3 1	40 10	60 40	100 50
III. SEC	5. Project Management	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : 7		24	Max. Marks: 800 or 850		

- Total Credits : 24
- Total Hours : 29

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III Semester Program Structure
B.Sc. (Honours) Data Science

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Python Programming for Data Analysis	3	40	60	100
	Lab	1	10	40	50
	6. Inferential and Applied Statistics	3	40	60	100
	Lab	1	10	40	50
	7. Data Mining Techniques using R	3	40	60	100
	Lab	1	10	40	50
	8.Web Technologies	3	40	60	100
	Lab	1	10	40	50
II. Minor	2.(i) Mathematics: Group Theory	4	40	60	100
	2.(ii) Physics : Optics	3	40	60	100
	Optics lab	1	10	40	50
III. SEC	5.Project Management	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : 7		24	Max. Marks: 800 or 850		

- Total Credits : 24
- Total Hours : 29

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III Semester Program Structure
B.Sc. (Honours) Artificial Intelligence

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Document Oriented Database Lab	3 1	40 10	60 40	100 50
	6. Operating Systems Lab	3 1	40 10	60 40	100 50
	7. Introduction to OOP using java Lab	3 1	40 10	60 40	100 50
	8.Inferential Statistics Lab	3 1	40 10	60 40	100 50
II. Minor	2.(i) Mathematics: Group Theory	4	40	60	100
	2.(ii) Physics : Optics Optics lab	3 1	40 10	60 40	100 50
III. SEC	5. Project Management	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : 7		24	Max. Marks: 800 or 850		

- Total Credits : 24
- Total Hours: 29

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III Semester Program Structure
B.Sc. (Honours) Statistics

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Theoretical Discrete Distributions	3	40	60	100
	Lab	1	10	40	50
	6.Theoretical Continuous Distributions	3	40	60	100
	Lab	1	10	40	50
	7. Statistical Methods	3	40	60	100
	Lab	1	10	40	50
	8.Inferential Statistics	3	40	60	100
	Lab	1	10	40	50
II. Minor	2.(i) Mathematics: Group Theory	4	40	60	100
	(ii) Computer Science : Object Oriented Program using Java	3	40	60	100
	lab	1	10	40	50
III. SEC	5. Project Management	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : 7		24	Max. Marks: 800 or 850		

- Total Credits : 24
- Total Hours: 29

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III Semester Program Structure
B.Com. General Honours

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Advanced Accounting	4	40	60	100
	6. Income Tax	4	40	60	100
	7. Business Laws	4	40	60	100
	8.Banking Theory and Practice	4	40	60	100
II. Minor	Economics: Macroeconomics	4	40	60	100
III. SEC	5. Information and Communication Technology	2	10	40	50
IV. MDC	2. Health and Hygiene	2	10	40	50
Total Courses : **7**		24	Max. Marks: **600**		

- Total Credits : 24
- Total Hours: 24

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III Semester Program Structure
B Com Honours (Computer Applications)

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Advanced Accounting	3	40	60	100
	Lab	1	10	40	50
	6. Income Tax	3	40	60	100
	Lab	1	10	40	50
	7. E-Commerce & Web Designing	3	40	60	100
	Lab	1	10	40	50
	8.Digital marketing	3	40	60	100
	Lab	1	10	40	50
II. Minor	Economics: Macroeconomics	4	40	60	100
III. SEC	5. Project Management	2	10	40	50
IV. MDC	2.Health and Hygiene	2	10	40	50
Total Courses : 7		24	Max. Marks: 800		

- Total Credits: 24
- Total Hours: 28

III Semester Program Structure
BBA Honours

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Business Laws	4	40	60	100
	6. Organizational Behavior	4	40	60	100
	7. Business Environment	4	40	60	100
	8.Business Statistics and Mathematics	4	40	60	100
II. Minor	Retail Management: Retail Store Operations	4	40	60	100
III. SEC	5. Information and Communication Technology	2	10	40	50
IV. MDC	2. Health and Hygiene	2	10	40	50
Total Courses : **7**		24	Max. Marks: **600**		

- Total Credits : 24
- Total Hours : 24

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III Semester Program Structure
BCA Honours (Computer Applications)

Name of the Course	Title of the Course	Credits	CIA	SEE	Total
I. Major	5. Data Management System Lab	3 1	40 10	60 40	100 50
	6. Data Structures Lab	3 1	40 10	60 40	100 50
	7. Object Oriented Program through Java Lab	3 1	40 10	60 40	100 50
	8.Software Engineering Lab	3 1	40 10	60 40	100 50
II. Minor	Statistics: Statistical Methods Lab	3 1	40 10	60 40	100 50
III. SEC	5. Project Management	2	10	40	50
IV. MDC	2. Principles of Management	2	10	40	50
Total Courses : 7		24	Max. Marks: 800 or 850		

- Total Credits :24
- Total Hours: 29

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III Semester Program Structure
B.VOC Honours(Software Development and Web Technology)

Name of the Course	Title of the Course	Hrs/ week	Credits	CIA	SEE	Total
I. General Education						
1	English	4	4	40	60	100
2	Numerical and Statistical Methods	4	4	40	60	100
3	Principles of Management	4	4	40	60	100
I. Skill Component						
Skill-1	Database Management Systems	3	3	40	60	100
	LAB: RDBMS Lab	2	1	10	40	50
Skill-2	Data Structures	3	3	40	60	100
	LAB: Data Structures Lab	2	1	10	40	50
Skill-3	Object Oriented Programming through Java	3	3	40	60	100
	Java Lab	2	1	10	40	50
		27	24	Max. Marks: 750		

- Total Courses : 6
- Total Credits: 24
- Total Hours: 27