Annexure – II
Basket of Minor Courses

Faculty of Science and Technology

1. Basket for Minor Category Courses - BOTANY

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	Minor 1	Algae, Fungi, Lichen &Plant Pathology	BBO1T01	BBO1P01
	Minor 2	Fossil Angiosperms &Angiosperm Taxonomy	BBO1T02	BBO1P02
IV	Minor 3	Genetics, Plant breeding, Biostatistics & Evolution	BBO2T03	BBO2P03
	Minor 4	Plant Development, Anatomy& Embryology	BBO2T04	BBO2P04
V	Minor 5	Biochemistry & Plant Physiology	BBO3T05	BBO3P05
	Minor 6	Economic botany, Ethnobotany & Phytogeography.	BBO3T06	BBO3P06
VI	Minor 7	Ecology & Laboratory Instrumentation	BBO4T07	BBO4P07

2. Basket for Minor Category Courses - BIOCHEMISTRY

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	Minor 1	Biomolecules & Nutritional Biochemistry	BBC1T01	BBC1P01
	Minor 2	Microbial Biochemistry	BBC1T02	BBC1P02
IV	Minor 3	Human Physiology & Clinical Biochemistry	BBC2T03	BBC2P03
	Minor 4	Techniques in Biochemistry	BBC2T04	BBC2P04
V	Minor 5	Agriculture Biochemistry	BBC3T05	BBC3P05
	Minor 6	Enzymes and Enzyme Technology	BBC3T06	BBC3P06
VI	Minor 7	Metabolism	BBC4T07	BBC4P07

3. Basket for Minor Category Courses - BIOTECHNOLOGY

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Introductory Microbial Biotechnology	BBT1T01	BBT1P01
	Minor 2	Cellular Macromolecules	BBT1T02	BBT1P02
IV	**Minor 3**	Techniques in Biotechnology	BBT2T03	BBT2P03
	Minor 4	Enzyme Technology	BBT2T04	BBT2P04
V	**Minor 5**	Molecular Biology–I	BBT3T05	BBT3P05
	Minor 6	Molecular Biology-II	BBT3T06	BBT3P06
VI	**Minor 7**	Fundamentals of Genetic Engineering	BBT4T07	BBT4P07

4. Basket for Minor Category Courses - CHEMISTRY

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Inorganic Chemisty-1 (Atomic structure, bonding and main group elements)	BCH1T01	BCH1P01
	Minor 2	Organic Chemistry-1 (Fundamentals, stereochemistry and hydrocarbons)	BCH1T02	BCH1P02
IV	**Minor 3**	Organic Chemistry-2 (Functional group chemistry)	BCH2T03	BCH2P03
	Minor 4	Physical Chemistry-1 (Thermodynamics, gaseous and liquid state)	BCH2T04	BCH2P04
V	**Minor 5**	Physical Chemistry-2 (Surface chemistry, phase equilibria, electrochemistry and kinetics)	BCH3T05	BCH3P05
	Minor 6	Inorganic Chemistry-2 (Bonding, transition elements and solutions)	BCH3T06	BCH3P06
VI	**Minor 7**	Inorganic Chemistry-3 (Coordination chemistry, Redox reactions and Inorganic Polymers)	BCH4T07	BCH4P07

5. Basket for Minor Category Courses - COMPUTER SCIENCE

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Programming in 'C'	BCS1T01	BCS1P01
	Minor 2	Computer Fundamentals	BCS1T02	BCS1P02
IV	Minor 3	Object Oriented Programming using 'C ++'	BCS2T03	BCS2P03
	Minor 4	Operating Systems	BCS2T04	BCS2P04
V	Minor 5	Data Structures	BCS3T05	BCS3P05
	Minor 6	Linux Operating System	BCS3T06	BCS3P06
VI	Minor 7	Java Programming	BCS4T07	BCS4P07

6. Basket for Minor Category Courses – Bachelor of COMPUTER APPLICATION (BCA)

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Programming in 'C'	BCA1T01	BCA1P01
	Minor 2	Computer Fundamentals	BCA1T02	BCA1P02
IV	Minor 3	Object Oriented Programming using 'C ++'	BCA2T03	BCA2P03
	Minor 4	Operating Systems and Linux	BCA2T04	BCA2P04
V	Minor 5	Data Structures	BCA3T05	BCA3P05
	Minor 6	Java Programming	BCA3T06	BCA3P06
VI	Minor 7	Advanced Java Programming	BCA4T07	BCA4P07

7. Basket for Minor Category Courses - DATA SCIENCE

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Linear Algebra	BDS1T01	BDS1P01
	Minor 2	Programming with 'C++'	BDS1T02	BDS1P02
IV	**Minor 3**	Data Structure	BDS2T03	BDS2P03
	Minor 4	Probability and Statistics	BDS2T04	BDS2P04
V	**Minor 5**	JAVA Programming	BDS3T05	BDS3P05
	Minor 6	Digital Electronics and Microprocessor	BDS3T06	BDS3P06
VI	**Minor 7**	Operating System and Linux	BDS4T07	BDS4P07

8. Basket for Minor Category Courses – ELECTRONICS

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Analog Electronic Circuits	BEN3T05	BEN3P05
	Minor 2	Micro-controller 8051 Family	BEN3T06	BEN3P06
IV	**Minor 3**	Linear Integrated Circuits	BEN4T07	BEN4P07
	Minor 4	Signals and Systems	BEN4T08	BEN4P08
V	**Minor 5**	Instrumentation system	BEN5T09	BEN5P09
	Minor 6	Communication System	BEN5T10	BEN5P10
VI	**Minor 7**	Industrial Instrumentation	BEN6T14	BEN6P14

9. Basket for Minor Category Courses - ENVIRONMENTAL SCIENCE

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Fundamentals of Environmental Science	BES1T01	BES1P01
	Minor 2	Environmental Biology	BES1T02	BES1P02
IV	Minor 3	Basics of Environmental Pollution	BES2T03	BES2P03
	Minor 4	Forest, Wildlife and Biodiversity and it's Conservation	BES2T04	BES2P04
V	Minor 5	Atmospheric Science, Meteorology and Climatology	BES3T05	BES3P05
	Minor 6	Natural Resources and Management	BES3T06	BES3P06
VI	Minor 7	Solid and Hazardous Waste management	BES4T07	BES4P07

10. Basket for Minor Category Courses - FORENSIC SCIENCE

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Forensic Science-I	BFS1T01	BFS1P01
	Minor 2	Digital & Cyber Forensic	BFS1T02	BFS1P02
IV	Minor 3	Forensic Chemistry	BFS2T03	BFS2P03
	Minor 4	Forensic Physics	BFS2T04	BFS2P04
V	Minor 5	Forensic Psychology	BFS3T05	BFS3P05
	Minor 6	Forensic Biology	BFS3T06	BFS3P06
VI	Minor 7	Forensic Science-II	BFS4T07	BFS4P07

11. Basket for Minor Category Courses - GEOLOGY

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Introduction to Geology	BGE1T01	BGE1P01
	Minor 2	Mineralogy	BGE1T02	BGE1P02
IV	**Minor 3**	Physical Geology and General Geology	BGE2T03	BGE2P03
	Minor 4	Optical Mineralogy and Crystallography	BGE2T04	BGE2P04
V	**Minor 5**	Igneous Petrology	BGE3T05	BGE3P05
	Minor 6	Sedimentary Petrology	BGE3T06	BGE3P06
VI	**Minor 7**	Metamorphic Petrology	BGE4T07	BGE4P07

12. Basket for Minor Category Courses - HOME SCIENCE

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Fundamentals of Food and Nutrition	BHS1T01	BHS1P01
	Minor 2	Fundamentals of Human Development	BHS1T02	BHS1P02
IV	**Minor 3**	Fundamentals of Textile and Clothing	BHS2T03	BHS2P03
	Minor 4	Interior Decoration and Design	BHS2T04	BHS2P04
V	**Minor 5**	Fundamentals of Home Science Extension	BHS3T05	BHS3P05
	Minor 6	Human Physiology	BHS3T06	BHS3P06
VI	**Minor 7**	Work Simplification and Ergonomics	BHS4T07	BHS4P07

13. Basket for Minor Category Courses - INFORMATION TECHNOLOGY

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Programming in C	BIT1T01	BIT1P01
	Minor 2	IT Support Technologies	BIT1T02	BIT1P02
IV	Minor 3	Object Oriented Programming using C++	BIT2T03	BIT2P03
	Minor 4	Operating System and Linux	BIT2T04	BIT2P04
V	Minor 5	Data Structure	BIT3T05	BIT3P05
	Minor 6	Java Programming	BIT3T06	BIT3P06
VI	Minor 7	Advanced Java Programming	BIT4T07	BIT4P07

14. Basket for Minor Category Courses – MATHEMATICS

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Algebra and Trigonometry	BMT1T01	BMT1P01
	Minor 2	Differential Calculus	BMT1T02	BMT1P02
IV	Minor 3	Integral Calculus and Ordinary Differential Equations	BMT2T03	BMT2P03
	Minor 4	Vector Analysis	BMT2T04	BMT2P04
V	Minor 5	Partial Differential Equations	BMT3T05	BMT3P05
	Minor 6	Analytical Solid Geometry	BMT3T06	BMT3P06
VI	Minor 7	Mathematical Methods	BMT4T07	BMT4P07

15. Basket for Minor Category Courses - MICROBIOLOGY

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Fundamentals of Microbiology	BMI1T01	BMI1P01
	Minor 2	Basic Techniques in Microbiology	BMI1T02	BMI1P02
IV	**Minor 3**	Microbial Diversity	BMI2T03	BMI2P03
	Minor 4	Chemistry of Biomolecules	BMI2T04	BMI2P04
V	**Minor 5**	Metabolism	BMI3T05	BMI3P05
	Minor 6	Environmental Microbiology	BMI3T06	BMI3P06
VI	**Minor 7**	Dairy Microbiology	BMI4T07	BMI4P07

16. Basket for Minor Category Courses - PHYSICS

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Measurement, Mechanics, and Properties of Matter	BPH1T01	BPH1P01
	Minor 2	Kinetic Theory of Gases and Thermodynamics	BPH1T02	BPH1P02
IV	**Minor 3**	Acoustics and Ultrasonics	BPH2T03	BPH2P03
	Minor 4	Oscillations and Blackbody radiations	BPH2T04	BPH2P04
V	**Minor 5**	Solid State Physics	BPH3T05	BPH3P05
	Minor 6	Optics	BPH3T06	BPH3P06
VI	**Minor 7**	Lasers and Optical Fibres	BPH4T07	BPH4P07

17. Basket for Minor Category Courses - STATISTICS

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Probability Theory	BST3T01	BST3P01
	Minor 2	Descriptive Statistics	BST3T02	BST3P02
IV	Minor 3	Probability distributions	BST4T03	BST4P03
	Minor 4	Economic Statistics	BST4T04	BST4P04
V	Minor 5	Statistical Methods	BST5T05	BST5P05
	Minor 6	Applied Statistics	BST5T06	BST5P06
VI	Minor 7	Statistical Inference	BST6T07	BST6P07

18. Basket for Minor Category Courses - ZOOLOGY

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Life and Diversity of Animals-Nonchordates (Protozoa to Annelida)	BZO1T01	BZO1P01
	Minor 2	Cell Biology and Genetics	BZO1T02	BZO1P02
IV	Minor 3	Life and Diversity of Animals-Nonchordates (Arthropoda to Hemichordata)	BZO2T03	BZO2P03
	Minor 4	Developmental Biology	BZO2T04	BZO2P04
V	Minor 5	Chordata	BZO3T05	BZO3P05
	Minor 6	General Mammalian Physiology	BZO3T06	BZO3P06
VI	Minor 7	Applied Zoology	BZO4T07	BZO4P07

19. Basket for Minor Category Courses– APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Computer Fundamentals	BET1T01	BET1P01
	Minor 2	Electrical Engineering I	BET1T02	BET1P02
IV	Minor 3	Computer Programming	BET2T03	BET2P03
	Minor 4	Electrical Engineering II	BET2T04	BET2P04
V	Minor 5	Object Oriented Programming I	BET3T05	BET3P05
	Minor 6	Digital Electronics I	BET3T06	BET3P06
VI	Minor 7	Object Oriented Programming II	BET4T07	BET4P07

20. Basket for Minor Category Courses - COSMETIC TECHNOLOGY

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	MINOR 1	Natural Cosmetic Agents	BCT1T02	BCT1P02
	MINOR 2	Instrumental Methods of Analysis	BCT2T02	BCT2P02
IV	MINOR 3	Cosmetic Technology	BCT3T01	BCT3P01
	MINOR 4	Cosmetic Chemistry	BCT3T02	BCT3P02
V	MINOR 5	Cosmetic Technology	BCT4T01	BCT4P01
	MINOR 6	Cosmetic Engineering	BCT4T02	BCT4P02
VI	MINOR 7	Cosmetic Technology	BCT5T01	BCT5P01

21. Basket for Minor Category Courses - INTERIOR DESIGN

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	MINOR 1	Interior Design I	BHD1T01	BHD1P01
	MINOR 2	Material & Construction Techniques I	BHD1T02	BHD1P02
IV	MINOR 3	Interior Design II	BHD2T03	BHD2P03
	MINOR 4	Material & Construction Techniques II	BHD3T04	BHD3P04
V	MINOR 5	Interior Design III	BHD4T05	BHD3P05
	MINOR 6	Material & Construction Techniques III	BHD3T06	BHD3P06
VI	MINOR 7	Interior Design IV	BHD4T07	BHD4P04

22. Basket for Minor category courses – FASHION DESIGN

Semester	Course Category	Name of Course	Course Code	
			Theory	**Practical**
III	**Minor 1**	Study of Indian Costumes		
	Minor 2	Draping Techniques-I		
IV	**Minor 3**	Study of Western Costumes		
	Minor 4	Draping Techniques-II		
V	**Minor 5**	Marketing		
	Minor 6	Entrepreneurship Development		
VI	**Minor 7**	Merchandising		

23. Basket for Minor category courses – TEXTILE SCIENCE

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Fundamentals of Knitting-I		
	Minor 2	Dyeing Technology-I		
IV	Minor 3	Fundamentals of Knitting-II		
	Minor 4	Dyeing Technology-II		
V	Minor 5	Marketing		
	Minor 6	Entrepreneurship Development		
VI	Minor 7	Merchandising		

24. Basket for <u>Minor</u> Category Courses (Artificial Intelligence)

Semester	Course Category	Name of Course	Course Code	
			Theory	Practical
III	Minor 1	Linear Algebra	BAI1T01	BAI1P01
	Minor 2	Programming with 'C++'	BAI1T02	BAI1P02
IV	Minor 3	Data Structure	BAI2T03	BAI2P03
	Minor 4	Probability and Statistics	BAI2T04	BAI2P04
V	Minor 5	JAVA Programming	BAI3T05	BAI3P05
	Minor 6	Digital Electronics and Microprocessor	BAI3T06	BAI3P06
VI	Minor 7	Operating System and Linux	BAI4T07	BAI4P07

25. Basket for <u>Minor</u> Category Courses (Computer Application)

Semester	Course Category	Name of Course	Course Code
IIII	Minor 1	Programming in 'C'	BCM1T01
	Minor 2	Computer Fundamentals	BCM1T02
IV	Minor 3	Object Oriented Programming using 'C ++'	BCM2T03
	Minor 4	Data Structures	BCM2T04
V	Minor 5	Operating Systems	BCM3T05
	Minor 6	Java Programming	BCM3T06
VI	Minor 7	Software Engineering	BCM4T08