

SEMESTER I

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18PBTM101	Core I: Cell Biology		✓	✓	✓	Understanding the basic concept of cell biology and cell organelles.
18PBTM102	Core II: Molecular biology		✓	✓	✓	This paper will give more edge understanding about the molecular mechanism.
18PBTM103	Core III: Microbiology & Genetics		✓		✓	Make aware of microorganisms to students like Bacteria, fungi, viruses, protozoa, and yeast. And also give brief idea about the genetics.
18PBTM104	Core IV: Biochemistry	✓	✓			Biotechnology students need basic knowledge about the biological reactions. To fulfill this Biochemistry paper was kept.
18PBTM105	Core V: Developmental Biology	✓	✓			Understanding the basic concept of Developmental Biology
18PBTMP101	Core Practical I: Lab in Cell biology, Molecular biology, Genetics and Biochemistry		✓	✓	✓	Provide hands-on experience on in Cell biology, Molecular biology, Genetics and Biochemistry


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SEMESTER II

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18PBTM201	Core VI: Immunology		✓	✓	✓	Immunology will provide basic information about the mechanism of immune system in our body.
18PBTM202	Core VII: Bioprocess Technology		✓	✓	✓	Provide a wide scope about the large-scale production of biotechnological products and process.
18PBTEL201	Elective I: Cell communication and Signaling		✓	✓	✓	Electives gives students to select their choice of subject. Cell communication and Signaling will give more insight about the molecular mechanism in nano environment.
18PBTEL202	Elective I: Bioinstrumentation and Bioinformatics		✓	✓	✓	Electives gives students to select their choice of subject. Bioinstrumentation and Bioinformatics will give more insight about the instrumentation and programming part in biotechnology.
18PBTMP201	Core Practical II: Lab in Immunology and Bioprocess technology		✓	✓	✓	Provide hands-on experience on Immunology and Bioprocess technology
18PBTMBI201/ 18PBTBCI201	Inter Disciplinary Course I: Plant Tissue Culture Technology		✓	✓	✓	It's a job-oriented course which helps the students to grow plants from a single cell.
18PBTMBIP201/ 18PBTBCIP201	Inter Disciplinary Course Practical I: Plant Tissue Culture Technology		✓	✓	✓	It's a job-oriented course which helps the students to grow plants from a single cell.



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SEMESTER III

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18PBTM301	Core VIII: Plant tissue and Animal cell culture technology		✓	✓	✓	It's a job-oriented course which helps the students to grow plants/animals from a single cell.
18PBTM302	Core IX: Genetic engineering		✓	✓	✓	This paper will give more edge understanding about the Genetic engineering and its recent advancements.
18PBTM303	Core X: Biostatistics and Research Methodology		✓		✓	This paper will give more insight about the research methodologies and statistical approach.
18PBTMP301	Core Practical III: Lab in Plant tissue and Animal cell culture technology and Genetic Engineering	✓	✓		✓	Provide hands-on Plant tissue and Animal cell culture technology and Genetic Engineering
18PBTMBI301/ 18PBTBCI301	Inter Disciplinary Course II: Animal Cell Culture Technology		✓	✓	✓	It's a job-oriented course which helps the students to grow animal plants from a single cell.
18PBTMBIP301/ 18PBTBCIP301	Inter Disciplinary Course Practical II: Animal Cell Culture Technology		✓	✓	✓	It's a job-oriented course which helps the students to grow animal plants from a single cell.



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SEMESTER IV

COURSE CODE	COURSE NAME	NEED				REMARKS
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18PBTM401	Core XI: Food and Pharmaceutical Biotechnology		✓	✓	✓	Food and pharmaceutical biotechnology will give more insight about the application of biotechnology extended to food and pharma sector.
18PBTEL401	Elective II: Environmental Biotechnology		✓	✓	✓	As the whole world is cautious about the environment, biotechnology will give new solution for the existing problem.
18PBTEL402	Elective II: Evolution and Biodiversity		✓	✓		Understanding the basic concept of Evolution and Biodiversity


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