## SEMESTER I

COLIDER CODE	COURSE NAME	**	NE.	ED		REMARKS
COURSE CODE		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		1		<b>✓</b>	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	<b>✓</b>	~			Biotechnology students need basic knowledge about the biological reactions. To fulfill this Biochemistry paper was kept.
10007741115	Core V: Developmental Biology	<b>✓</b>	~			Understanding the basic concept of Developmental Biology
10DDTMD101	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

PRINCIPAL

A. S. Rangasamy College of Arts & Science

(Autonomous)

TIRUCHENGODE - 637 215

Namakkal-Dt, Tamil Nadu, INDIA

## SEMESTER II

COURSE CODE	COURSE NAME		NE	ED		REMARKS
1000000000		Local	National	Regional	Global	
	Core VI: Immunology		~	1	~	Immunology will provide basic information about th mechanism of immune system in our body.
18PBTM202	Core VII: Bioprocess Technology		~	~	~	Provide a wide scope about the large-scale productio of biotechnological products and process.
18PBTEL201	Elective I: Cell communication and Signaling		~	<b>✓</b>		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		~	<b>✓</b>	✓	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 1: Plant Tissue Culture Technology		~	<b>✓</b>	✓	It's a job-oriented course which helps the students to grow plants from a single cell.
18PBTMBIP201/ 18PBTBCIP201	Practical I: Plant Ticque		~	· *	~	It's a job-oriented course which helps the students to grow plants from a single cell.

PRINCIPAL

1. S. Rangasamy College of Arts & Science
(Autonomous)

TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu. "

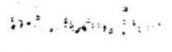
## SEMESTER III

\* 's a second of the second of

COURSE CODE COURSE NAME			NE	ED		REMARKS
		Local	National	Regional	Global	
18PBTM301	Core VIII: Plant tissue and Animal cell culture technology		_	~	1	It's a job-oriented course which helps the students grow plants/animals from a single cell.
18PBTM302	Core IX: Genetic engineering		~	~	1	This paper will give more edge understanding about the Genetic engineering and its recent advancement
	Core X: Biostatistics and Research Methodology		~		<b>✓</b>	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 cultu technology and Genetic Engineering
8PBTBCI301 A	nter Disciplinary Course II: Animal Cell Culture echnology		-	-	_	It's a job-oriented course which helps the students to grow animal plants from a single cell.
BTBCIP301 Pra	ter Disciplinary Course actical II: Animal Cell Iture Technology		~	~	✓ I	t's a job-oriented course which helps the students to grow animal plants from a single cell.

A.S. Rangasamy College of Arts & Science
(Autonomous)

TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu. INDIA



## SEMESTER IV

COURSE CODE	COURSE NAME		NE	ED		REMARKS
		Local	National	Regional	Global	
18PBTM401	Core XI: Food and Pharmaceutical Biotechnology		<b>✓</b>	✓	1	Food and pharmaceutical biotechnology will give more insight about the application of biotechnology extended to food and pharma sector.
18PBTEL401	Elective II: Environmental Biotechnology		~	~	<b>✓</b>	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

HEAD, DEPARTMENT OF BIOTECHNOLOGY K S Rangasamy College of Arts and Science KSR Kalvi Nagar, Tiruchengode-637 215. India PRINCIPAL
PRINCIPAL
A. S. Rangasamy College of Arts & Science
(Autonomous)
TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA