K.S.Rangasamy College of Arts& Science (Autonomous), Tiruchengode-637215

Department of Biotechnology

Local / National / Regional / Global

SEMESTER I

COURSE CODE	COURSE NAME		NE	ED		REMARKS
		Local	National	Regional	Global	
180B1W101	Core I: Concepts of Cell Biology		1		✓	Understanding the basic concept of cell biology and cell organelles.
180BTMP101	Core Practical I: Lab in Cell Biology		~		✓	Hands on experience on the basic practical

SEMESTER II

COURSE CODE	COURSE NAME		NE	ED		REMARKS
		Local	National	Regional	Global	
18UBTM201	Core II: Principles of Genetics		1	·	~	Understanding the basics of Genetics
18UBTMP201	Core Practical II:Lab in Genetics		1	✓	✓	Hands-on experience in genetics.

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SEMESTER III

		NEED				REMARKS
COURSE CODE	COURSE NAME	Local	National	Regional	Global	
18UBTM301	Core III: Microbiology	/	1	1	1	Make aware of microorganisms to students like Bacteria, fungi, viruses, protozoa, and yeast.
18UBTMP301	Core Practical III: Lab in Microbiology	1	1			Provide hands-on experience on handling and isolation of Microbes
18UBTSB301	SBC I: Calculations for Biologist (100% Internal Evaluation)	~	~			Provide basic knowledge about the basic calculation in biology
	NMEC I: Medicinal herbs	1	1			Introduce the medicinal herbs to the students for
10UDTAC201	Add-on Course: Medical ranscription		1		✓	Apart from the regular course student can benefit from this add-on course. Which may help the student to advance in his career.
LOLIDTA C202	Add-on Course:	~	~	~		Apart from the regular course student can benefit from this add-on course. Which may help the student to advance in his career.

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SEMESTER IV

COURSE	COURSE NAME		, NE	ED .		
CODE		Local ;	National	Regional	Global	REMARKS
18UBTM401	Core IV: Biophysics and Bioinstrumentation	ř	✓	✓	1	Understanding the basic concept of Biophysics and Bioinstrumentation
18UBTMP401	Core Practical IV: Lab in Biophysics and Bioinstrumentation		1	~	~	Provide hands-on experience on instrumentation
18UBTSB401	SBC II: Biosafety and Bioethics (100% Internal Evaluation)	✓	~	✓	√	Provide basic knowledge about the Biosafety and Bioethics in Biological science.
18UBTNM401	NMEC II: Fundamentals of Biotechnology		1	1		To disseminate the fundamentals of Biotechnology to non-biotechnology students.
18UBTAC401	Add-on Course: CorporateBiotechnology	1	1	✓	✓	Will give more detail about the corporate culture and its systems in Biotechnology.
18UBTAC402	Add-on Course: Animalphysiology	~	~	1		Will give more detail about the animal physiology which will give more edge to students to obtain job in medical transcription field.
18UBTAL401	Advanced Learners Course: DNA Science and Drug discovery		~		✓	This course is very specific for students who performs will in their academics. Which will give more edge in obtaining credit.
18UBTAL402	Advanced Learners Course: Stem cell Biology		1		~	This course is very specific for students who performs will in their academics. Which will give more edge in obtaining credit.

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SEMESTER V

COURSI	E	COURSE NAME			EED		REMARKS
CODE			Local	Nationa	I Regional	Global	
18UBTM5	01	Core V:MolecularBiology		~	~	1	This paper will give more edge understanding about the molecular mechanism.
18UBTM50	02	Core VI: Immunology	1	/	1	1	Immunology will provide basic information about the mechanism of immune system in our body.
18UBTM50	3	Core VII: Industrial Biotechnology		~	~		Provide a wide scope about the large-scale production of biotechnological products and process.
18UBTM504	4	Core VIII:Planttissueculture	/	~	~	1	It's a job-oriented course which helps the students to grow plants from a single cell.
18UBTEL501	E	lective I: Nanobiotechnology		~		1	Electives gives students to select their choice of subject. Nanotechnology will give more insight about the molecules in nano level.
18UBTEL502	EI	ective I: Bioinformatics		~		✓ :	Electives gives students to select their choice of subject. Bioinformatics will give students to take up career in dry lab.
18UBTMP501	Со	rePractical-V	~		~	ļ	Provide hands-on experience on PTC, ACC, Molecular biology, immunology and Industrial biotechnology
18UBTSB501		C III: IPR for escience	~	~	~	✓ p	Provide basic knowledge about the intellectual property rights which is important for Biotechnology tudents.
		anced Learners Course Senes and Humans		~	~	✓ W	This course is very specific for students who performs will in their academics. Which will give more edge in btaining credit.
· ATTEMATICAL	Section 1997	nced Learners Course mics-Science		~		1 h	his course is very specific for students who performs ill in their academics. Which will give more edge in btaining credit.

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			SEMES	TER VI		
COURSE CODE	COURSE NAME	NEED				
	C- 777 -	Local National Regional C			Global	REMARKS
18UBTM601	Core IX: Recombinant DNA Technology		1		1	This paper will give more edge understanding about the recombinant DNA technology and its recent advancements.
18UBTM602	Core X: Environmental Biotechnology	✓	~			As the whole world is cautious about the environment, biotechnology will give new solution for the existing problem.
18UBTM603	Core XI: Basics of Animal Cell culture		✓		✓	It's a job-oriented course which helps the students to grow animals from a single cell.
18UBTEL601	Elective II: Medical Biotechnology		✓		✓	Electives gives students to select their choice of subject. Medical biotechnology will give more insight about the clinical aspects of biotechnology
18UBTEL602	Elective II: Food Biotechnology	✓	~	✓	✓	Electives gives students to select their choice of subject. Food biotechnology will give more insight about the application of biotechnology extended to food sector.
18UBTMP601	CorePractical - VI	✓	~	~		Provide hands-on experience on rDNA technology, ACC and environmental biotechnology
18UBTSB601	SBC IV: Basics of Research		~	~	✓	Provide basic knowledge about the Research and its methodologies. And will guide the students to perform basic research in Undergraduate level.

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