

**1.3.1: Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum**

Programme	Name of the Course	Relevant Issue			Description
		Gender	Environment & Sustainability	Human Values & Professional Ethics	
UG Biochemistry	ADD On I-Clinical Laboratory Techniques			✓	Highlights the ethical issues and human values in clinical laboratories.
	ADD On II-Medical Terminology (For Medical Coding/Medical Transcription)		✓	✓	Helps the students to learn the basic about medical terminology for medical coding and medical transcription.
	SBC III : Pharmacognosy			✓	Elaborate the values and importance about phytomedicine.
	Core IX: Plant Biochemistry		✓		To learn about the biochemical process that happening in plants and its importance in human and environmental sustainability.
	Core X: Pharmaceutical Biochemistry		✓		To know the metabolism of drugs and its mode of action. It enables the student to get placed in pharma industry.
	Core XI: Genetic Engineering			✓	To aware the up to date technology in genetics and also helps to acquire knowledge on genetic modifications and its benefits and consequences towards human life.
	Elective-Computational Biology			✓	To help the students to attain knowledge on human evaluation and bioinformatics which will ultimately helps the students to develop carrier oriented skills.

  
 PRINCIPAL  
 S. Rangasamy College of Arts & Sci  
 (Autonomous)  
 TIRUCHENGODE - 637 215  
 Namakkal-Dt. Tamil Nadu, INDIA

	Elective-Biomedical Instrumentation		✓		Teaches about new techniques theoretically to sustain in medical field.
	SBC IV : Phytochemistry		✓		Deals with the plant resources as natural products and pharmaceutical aids and awareness on the importance of Indian System of Traditional Medicines.
	Advance Learner course- Bioprocess technology		✓	✓	Teaches to learn the processes that form the backbone of translating discoveries of life sciences into useful industrial products.
	Advance Learner course – Soil Biochemistry		✓		Inculcates the students on the role of microbes in environment and enrichment of soil fertility through micro organisms.
<b>PG Biochemistry</b>	Core IV: Molecular Biology			✓	This enables the student to gain knowledge on central dogma of life.
	Elective-Recombinant DNA Technology			✓	The course teaches the students about bioethics in the field of genetic modifications especially GM foods and animals.
	Elective-Food Processing And Quality Control			✓	Educating about the food processing that is used to turn fresh foods into food products and also about quality management that plays a vital role within the food industry.
	Core IX: Biostatistics and Research Methodology			✓	Educating the students to learn statistical analysis in research and to understand about IPR which helps them aspire to new arenas of technological achievement.
	Elective-Molecular Immunology and Immunotechnology			✓	The students may benefit to get placed in clinical diagnostic field and may help out to work related to vaccines in the medical field.
	Elective-Molecular Genetics			✓	The student learns the genetics in molecular level and may helps to become professional in the field of genetic engineering.

**Dr. G. SARAVANAN Ph.D.,**  
 Assistant Professor & Head  
 Department of Biochemistry,  
 K.S. Rangasamy College of Arts and Science (Autonomous)  
 TIRUCHENGODE - 637 215.

2

PRINCIPAL  
 K. S. Rangasamy College of Arts & Science  
 (Autonomous)  
 TIRUCHENGODE - 637 215  
 Namakkal-Dt, Tamil Nadu, INDIA