

K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode

Department of Biochemistry (UG)

LOCAL/NATIONAL/REGIONAL/GLOBAL

| COURSE CODE | COURSE NAME | NEED | | | | REMARKS |
|-------------|--|-------|----------|----------|--------|---|
| | | Local | National | Regional | Global | |
| 18UBCM101 | Core I: Biomolecules | | ✓ | | ✓ | Enable the students to learn the basic structures of macromolecules. |
| 18UBCMP101 | Core Practical I: Biomolecules | | ✓ | | ✓ | Enable the students to know the basics of the chemical reactions by qualitative and quantitative analysis and simple biochemical separation techniques. |
| 18UBCM201 | Core II: Biochemical Techniques | | ✓ | | ✓ | Helps the students to get an insight on the usage of various techniques and their applications in industry and R&D. |
| 18UBCMP201 | Core Practical II: Biochemical Techniques | | ✓ | | ✓ | Helps the students to understand the basics in handling of instruments. |
| 18UBCM301 | Core III: Enzymology | | ✓ | | ✓ | Information about application of enzymes in industry and medicine. |
| 18UBCMP301 | Core Practical III: Enzymology | | ✓ | | ✓ | To acquire knowledge about isolation and purification of enzymes and effect of Various factors that affect enzyme action. |
| 18UBCM401 | Core IV: Bioenergetics and Intermediary Metabolism | | ✓ | | ✓ | Understand the metabolic pathways and their physiological significance and energetic of the metabolic pathways . |
| 18UBCMP401 | Core Practical IV: Intermediary Metabolism | | ✓ | | ✓ | To enable the students to acquire knowledge about quantification of major metabolites. |
| 18UBCM501 | Core V: Fundamentals of Immunology | | ✓ | | ✓ | To make the learners to study in detail about the organization and function of human immune system in health and disease. |
| 18UBCM502 | Core VI: Molecular Biology | | ✓ | | ✓ | Helps the students to learn about the synthesis and functions of molecules that make up the living processes, mutations and DNA repair mechanism. |
| 18UBCM503 | Core VII: Clinical Biochemistry | | ✓ | | ✓ | To learn the mechanism behind the disorder of metabolic pathways and the various diagnostic methodologies available for diseases and disorders. |
| 18UBCM504 | Core VIII: Endocrinology | | ✓ | | ✓ | Understand the mechanism of regulation of various physiological processes and the |

PRINCIPAL

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

TIRUCHENGODE - 637 215

| | | | | | | |
|------------|---|--|---|--|---|---|
| | | | | | | role of hormones in maintaining the homeostasis of the cellular systems. |
| 18UBCEL501 | Human Physiology | | ✓ | | ✓ | About the organization and function of human immune system in health and disease. |
| 18UBCMP501 | Core Practical V: Immunology and Clinical Biochemistry | | ✓ | | ✓ | To understand the different estimation procedures in diagnosis of disease . |
| 18UBCM601 | Core IX: Plant Biochemistry | | ✓ | | ✓ | To strengthen the base in fundamental aspects of biochemical basis of physiological processes in plants and their response to environment stress. |
| 18UBCM602 | Core X: Pharmaceutical Biochemistry | | ✓ | | ✓ | To learn about the pharmacokinetics and pharmacodynamics and toxicological aspects of drugs. |
| 18UBCM603 | Core XI: Genetic Engineering | | ✓ | | ✓ | Basics and applications of genetic engineering |
| 18UBCMP601 | Core Practical VI: Plant Biochemistry and Genetic Engineering | | ✓ | | ✓ | To enable the students to understand the basic concepts in extraction, screening, quantification process of secondary metabolites and plant tissue culture. |
| 18UBCNM301 | Biochemistry in Health and Diseases | | ✓ | | | Know about the nutritional requirements and dietary management of the diseases. |
| 18UBCAL401 | Food Biochemistry | | ✓ | | ✓ | On successful completion of the paper the students will get an insight to become an entrepreneur. |
| 18UBCAL402 | Bioprocess technology | | ✓ | | ✓ | Helps the students to gain knowledge about the exploitation of microbes for industrial purpose. |
| 18UBCAL501 | Soil Biochemistry | | ✓ | | ✓ | To enable the learners to understand the concepts of biofertilizers and its role in soil fertility. |

4.2

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

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