



## 1.1 Curriculum Design and Development

### 1.1.2 Biochemistry – Board of Studies

Department of Biochemistry  
St. Joseph's College (Autonomous)  
Tiruchirappalli – 620002

The Biochemistry board of studies meeting was held on 18 MAY 2021 at 10 AM on google meet platform. The Head of the department Mr.T.Antony Diwakar Chandran welcomed the University representative Dr.Suguna Bai , Associate Professor , Department of Biochemistry, SRC, Tiruchirappalli , Dr.Shabana Begum , Associate Professor , Department of Biochemistry ,Muthayammal college, Rasipuram, Mr. Dharmadurai, the Industrialist, Ms.Dhasaratha Bai, alumna belonging to 2019-21 batch and all the members of the staff.

Initially, the Head of the department read out the course pattern and the shifting of the papers across the semesters. Then the staff members were asked to read out the content of the courses allotted for them. Then the suggestions of the Subject expert, the University representative and the industrialist were discussed and recorded.

New courses introduced and shifting of the courses across the semesters:

- Forensic science is introduced as the Ability Enhancing Course in the first semester.
- The course content of the Pharmaceutical Biochemistry paper is totally changed and offered in the fourth semester instead of third semester.
- Advances in Clinical research and Biochemistry of Natural products are reintroduced.
- “Molecular Biology” paper of I semester is shifted to II semester and Microbiology of semester II is shifted to semester I. The experiments of the lab course paper are also combined accordingly.
- The optional paper entitled “Molecular Diagnostics” is shifted to the third from the second semester.
- The Paper entitled “Diet Therapy” is retained as the value added course. Minor corrections were made in the following papers.

Minor changes were made in the following papers.


Molecular Biology  
Microbiology  
Enzymology  
Herbal technology  
Human Physiology  
Immunology  
First Aid management  
And Lab course IV

Then, the question paper patterns given by the Dean were presented by the Head of the Department. The pattern I with Four tier system was suggested by the members and finally approved by the board.

All the above changes and the suggestion given by the stakeholders were approved by the board members and implemented in the curriculum.

Mr.T.AntonyDiwakarChandran  
Assistant Professor and Head –The Chairman

  
**Dr. S. SAHAYA SATHISH**  
DEAN-School of Biological Sciences  
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Board of Studies 2021 ACTION TAKEN REPORT


Biochemistry Board of Studies Meeting held on 18 MAY 2021 at 10 AM on Google staff room platform. The suggestions of the stakeholders were discussed by the board.

The following changes were made and approved by the board. As a result, the following table shows the action taken as per the suggestions given by the members.


Course Title	Stakeholders	Suggestions		Action taken	Percentage of revision
		Addition	Deletion		
SEMESTER I					
Biomolecular Chemistry	Dr.Suguna Bai	Unit I :Introduction to metabolisms	---	Approved by the board and incorporated	1%
	:Dr.Suguna Bai University Representative	UNIT V :Unusual nucleic acids	---	Approved by the board and incorporated	1%
Microbiology	Dr.P.G.Geegi	Unit III: Industrial production of Vitamins	---	Approved by the board and incorporated	1%
	Dr.Suguna Bai - University Representative	UNIT I: Microscopy – Principles and types – Simple, Compound and Phase contrast	---	Approved by the board and incorporated	0.5%
	Dr.Shabana Begum – The Subject Expert	UNIT -I Growth curve – factors affecting it	---	Approved by the board and incorporated	0.5%
Bioenergetics and Enzymology	Dr.Shabana Begum – Subject Expert	Unit II : Specific methods of Isolation and purification to be mentioned	----	Approved by the board and incorporated	1%
	Dr.Suguna Bai University Representative	Unit V: Applications of Specific enzymes-Industrial , Therapeutic	-	Approved by the board and incorporated	-
	Mr.T.AntonyDiwakar – The chairman	Two enzymes for each category	---	Approved by the board and incorporated	1%
Lab course I	Dr. Shabana Begum – Subject Expert	Estimation of Fructose	--	Approved by the board and incorporated	5%
	Mr.T.AntonyDiwakarChandran	Shifting of three experiments from	--	Approved by the board and	15%

  
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	-The chairman	Lab course IV to Lab Course I		incorporated	
Developmental Biology	No change suggested	---	---	Approved	---
Biochemistry of Natural Products	No change suggested	---	---	Approved	---
Forensic Science	No change suggested	---	---	Newly framed course - Approved	100%
SEMESTER II					
Genetic Engineering	No Change Suggested	---	---	Approved	--
Human Physiology	Dr.Suguna Bai - University Representative	UNIT V: Blood pressure – renin- angiotensin system	---	Approved	0.5%
Molecular Biology	Ms.Dhasaratha Bai -Alumna	Biological Mutation	---	Approved by the board and incorporated	0.5%
Lab course II	No Change suggested	---	---	Approved	--
Self Paced Learning: Advanced Nutrition	Dr.Shabana Begum – The Subject Expert	UNIT – 1 Protein Energy Malnutrition (PEM)	Unit I : Refsum's Disease and Atherosclerosis	Approved	1%
	ShrithiLekha – Student Representative	Books for Dietetics	-	Approved by the board and incorporated	--
Immunology	Dr.Suguna Bai - University Representative	Unit III: Mechanisms of activation of B and T cells	---	Approved by the board and incorporated	---
IDC (WS) Herbal Technology Generic Elective -I	Prof.S.Venkateshwari – Faculty member	Unit II : Drug Formulation and Types – advantages and disadvantages	---	Approved by the board and incorporated	1%
	Dr.Suguna Bai - University Representative	Unit II : Packing materials	--	Approved by the board and incorporated	0.5%
	Dr.Shabana Begum – The Subject Expert	UNIT – 1 Role of Indian Systems of medicine – Ayurveda, Yoga, Siddha, Unani and Homeo	---	Approved by the board and incorporated	1%

  
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SEMESTER III					
Pharmaceutics and Nanotechnology	No Change Suggested	—	—	Approved	--
Research Methodology	No Change Suggested	—	—	Approved	--
Advances in Clinical research	No Change Suggested	—	—	Approved	--
Lab course III	No Change Suggested	—		Approved	--
Life sciences for Competitive Exams –I	No Change Suggested	—	----	Approved	--
Molecular Diagnostics	No Change Suggested	—	—	Approved	--
IDC (BS) :First Aid Management	Prof.A.BennoSusai – Faculty member	Unit V : First Aid Kits	---	Approved by the board and incorporated	1%
Semester IV					
Advanced Endocrinology	No Change Suggested	—	—	Approved	--
Clinical Biochemistry	No Change Suggested	—	----	Approved	--
Lab course IV	Mr.T.AntonyDiwakar-The chairman	--	Estimation of Vitamin C,A,E,	Approved	15%
	Mr. A.BennoSusaiVijayakumar-Member	-	i)Pathological examination of blood film ii)Determination of prothrombin time	Approved	10%
Pharmaceutical Biochemistry	Mr.Dharmadurai - Industrialist -	Unit V : Introduction of Quality control-Dissolution, Disintegration	---	Approved by the board and incorporated	1%
Life Sciences for competitive Exams –II	No Change Suggested	—	—	Approved	--

  
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