

B.Tech.
in
Biotechnology

COURSE AND CREDIT STRUCTURE



Department of Biotechnology
School of Engineering and Technology
SHARDA UNIVERSITY

SUMMARY SHEET

Teaching Department : Biotechnology (SET)
School : School of Engineering and Technology
Name of Course : B.Tech. in Biotechnology
Duration : Four Years
Total number of Credits : 160
Date of Meeting of BOS : June 12, 2018

Member of BOS:

1. Prof. Rita Singh Majumdar, Prof & HoD Chairperson
2. Dr. Shравan Kumar
Institute of Nuclear Medicine and Allied Science
DRDO Ext. Member
3. Dr. Neetu Kumar,
Department of Basic and Applied Science
NIFTEM Ext. Member
4. Dr V K Baranwal, Principle Scientist & Head
Dept. of Plant Pathology, IARI, PUSA Ext. Member
5. Prof Shahana Majumdar Int. Member
6. Dr Pankaj Taneja Int. Member
7. Dr Garima Chouhan Int. Member
8. Mrs. Monika Jain Int. Member

Status:

Approved


12/06/18

Dr. Shравan Kumar


12/6/18

Dr. Neetu K. Taneja


12/6/18

Prof. Rita S. Majumdar


(S. Majumdar)

AGENDA FOR BOS

Agenda 1: New course structure of B Tech in Biotechnology for all four years admitted in 2018 and minor updates in course structure of B Tech in Biotechnology admitted in 2016 and 2017.

Agenda 2: Course structure of B Tech- M Tech Integrated in Plant Biotechnology and Course structure of B Tech- M Tech Integrated in Animal Biotechnology

Agenda 3: Approval of new courses.

- Python is a High level language of programming for software development. B. Tech (Biotechnology) student are user's not developers. In place of this more of open source database and analytical tools may add.


12/06/18.

Course Structure for B. Tech.- M.Tech. Integrated Programme in Biotechnology with Specialization in Animal Biotechnology (2015-16 batch)

Sem.	COURSE STRUCTURE						Courses	L	T	P	Weekly Contact	Credits
	Mathematics (B) (3-2-0) 4	Functional English-I (2-0-2) 3	Logic Building and Problem Solving using 'C' (3-1-2) 5	Physical Chemistry (3-1-2) 5	Macromolecular Biology (3-1-4) 6							
I	Physics (5) (3-1-2) 5	Functional English-II (2-0-2) 3	Advanced Concepts in C Programming (3-0-2) 4	Organic Chemistry (3-1-0) 4	Introduction to Biotechnology (3-1-2) 5	Environmental Science (2-0-0) 2	6	3	8	27	23	
II	Cell Biology (3-0-2) 4	Instrumentation and Bioanalytical Techniques (3-0-2) 4	Genetics (3-1-0) 4	Intermediary Metabolic Pathway (3-1-0) 4	Communication Practices I (2-0-2) 3	Term Paper-I (0-0-2) 1	7	3	6	26	24	
III	Object Oriented Programming using JAVA (3-1-2) 5	Microbiology (3-0-2) 4	Immunology (3-1-0) 4	Department Elective-I (3-1-0) 4	Economics for Engineers (3-0-0) 3	Term Paper-II (0-0-2) 1	7	4	6	28	25	
IV	Bioprocess Engineering-I (3-1-2) 5	Molecular Biology (3-1-2) 5	Biochemistry (3-0-2) 4	Professional Skills Enhancement (2-0-4) 4	Basic Computational Biology (3-1-0) 4	Term Paper-III (0-0-2) 1	7	3	12	29	23	
V	Management for Engineers (3-0-0) 3 HMM305	Basic Plant Biotechnology (3-1-2) 5 BTY309	Recombinant DNA Technology (3-1-2) 5 BTY310	Animal Biotechnology (3-1-0) 4 BTY311	Stem Cells (3-0-0) 3 BTY403	Term Paper IV (0-0-2) 1 BTP284	6	2	6	23	21	
Summer Training (0-0-4) 2 BTY391												
VI	Department Elective-III (3-1-0) 4	Department Elective-IV (3-1-0) 4	Open Elective-I (4-0-0) 4	Communication Practices II (3-0-0) 3								
	Department Elective-II (3-1-0) 4	Gene and genome	Signal transduction	Biopharmaceutical								
TOTAL UG Credits												
											160	

Amir Cars

Course Structure for B.Tech.- M.Tech. Integrated Programme in Biotechnology with Specialization in Animal Biotechnology (2015-16 batch)

Sem.	COURSES (L-T-P)										Credits		
	Immunotechnology (3-0-0) 3	Cell Signaling (3-0-0) 3	Applied Bioinformatics (3-0-0) 3	Proteomics (3-0-0) 3	PG project (0-0-4) 4	Practical (Animal Biotechnology Lab) (0-0-4) 2	Seminar (0-0-4) 2	Courses	L	T		P	Weekly Contact
VIII								7	12	0	11	23	20
IX	Enzyme Technology (3-1-0) 4	Applied Genetic Engineering (3-0-0) 3	Advances in Bioprocess Engineering (3-0-0) 3		Technical Presentation (0-0-4) 2	Practical (Enzyme & Genetic Engineering Lab) (0-0-4) 2	Dissertation n-1 (0-0-16) 8	6	10	1	22	33	22
X	Dissertation Part-2 (0-0-24) 18							1	0	0	24	24	18
Total PG Credits												60	

Handwritten signature