



# Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057  
Phone: 080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

## Department of Biotechnology

### Curriculum Plan & Deployment 2023-24

Sl.No.	Subject Name /Code	Beyond Syllabus	Innovative teaching methods / ICT Tools Used	Deployment Strategy and Tool	PO	PSO
1.	BBT301 Cell Biology and Genetics	-----	Google classroom & Google meet	Chalk and Talk method	PO1, 2,3,4,5,6	PSO1,2
2.	BBT302 Unit Operations + Lab	Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method PPT, Project work, Internship	PO1,2,3,4, 9,10,11,12	PSO1,2
3.	BBT303 Biochemistry +Lab	Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method PPT	PO1,2,3, 9,10,11	PSO 1,2
4.	BBT304 Microbiology	-----	Google classroom & Google meet	Chalk and Talk method,PPT	PO1,2,5,12	PSO1
5.	BBTL305 Microbiology Lab	Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method,PPT	PO1,2,3,4, 9,11	PSO1,2
6.	BSCK307 Social Connect and Responsibility	-----	Google classroom & Google meet	Chalk and Talk method PPT,Project and internship	PO1,2,3,4,6,8	PSO1,2,3
7.	BBT306B Human Anatomy and Physiology	-----	Google classroom & Google meet	Chalk and Talk method	PO1,2,3,9,10,11	PSO 1,2

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				PPT		
8.	BBTL358C Analysis Of Dairy Products Lab	- Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method PPT	PO 1,2,3,4,11,12	PSO 1,2
9.	BBT401 Molecular Biology & Genetic Engineering	Conducted Quiz Seminar	Google classroom & Google meet	Chalk and Talk method PPT, You tube videos	PO1,2,3,10,12	PSO1,2
10.	BBT402 Biostatistics and Tools + Lab	- Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method PPT, NPTEL videos	PO1,2,3,4,6,9,10,11,12	PSO1,2
11.	BBT403 Immunotechnology + Lab	Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method PPT	PO1,2,3,4,6,9,10,11,12	PSO1,2
12.	BBTL404 Molecular Biology & Genetic Engineering Lab	Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method PPT	PO1,2,3,4,6,9,10,11,12	PSO 1,2
13.	BBT456D Biopesticides and Biofertilizers	-----	Google classroom & Google meet	Chalk and Talk method, PPT, you tube videos	PO1,2,3,4,6,9,10,11,12	PSO1,2
14.	BBT405C Bioprocess Principles and Stoichiometry	Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method PPT	PO1,2,3,4,6,9,10,11,12	PSO1,2
15.	PCC21BT51 Biokinetics & Bioreaction engineering	-----	Google classroom & Google meet	Chalk and Talk method PPT	PO1,2,3,6	PSO1,2

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16.	IPCC21BT52 Immunotechnology+lab	Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	PPT	PO1,2,3,4,6,8,9,10,11,12	PSO1,2
17.	PCC21BT53 Structural biology & Analytical techniques	-----	Google classroom & Google meet	PPT	PO1,2,3,4,8,9,11	PSO1,2
18.	PCC21BT54 Genomics, Proteomics & Bioinformatics	-----	Google classroom & Google meet	PPT	PO1,2,3,4,6,8,9,10,11,12	PSO1,2
19.	PCC21BTL55 Bioinformatics lab	-----	Google classroom & Google meet	Chalk & talk, PPT, webinars,	PO1,2,3,4,6,9,10,11,12	PSO1,2,3
20.	AEC21BT56 Research methodology & Intellectual property rights	-----	Google classroom & Google meet	Chalk and Talk method PPT	PO1,2,3,4,6,8,9,10,11,12	PSO1,2,3
21.	HSMC21CIV57 Environmental Studies	-----	Google classroom & Google meet	Chalk and Talk method, Project and Internship	PO1,2,3,4,6,7,9,10,11,12	PSO1,2,3
22.	21BT582 Extraction Methods and Herbal products	-----	Google classroom & Google meet	Chalk and Talk method You tube PPT	PO1,2,3,4,6,9,10,11,12	PSO1,2
23.	HSMC21BT61 Biobusiness Management and Entrepreneurship	-----	Google classroom & Google meet	Chalk and Talk method, , PPT	PO1,2,3,4,6,8,9,10,11,12	PSO1,2,3
24.	IPCC21BT62 Bioprocess Principles, Control & Automation + Lab	- Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method, NPTEL Videos, PPT	PO1,2,3,6,8	PSO1,2

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				You tube,PPT,Project and Intership		
34.	18BT742Agricultural Biotechnology	-----	Google classroom	Chalk and Talk method PPT	PO 1,2,3,4,9,10,12	PSO1,2
35.	18BT752 Forensic science	Group Discussion and case studies	Google classroom	Chalk and Talk method PPT	PO1,2,4,6,8,10	PSO1,2
36.	18BTL76Bioprocess Engineering Laboratory	Conduction of new experiments which are beyond the syllabus	Google classroom	Chalk and Talk method ,Project and Intership	PO1,2,3,4,9,10,11,12	PSO1,2
37.	18BTP77 Project phase 1	-----	-----	PPT	PO1,2,3,4,5,6,7,8,9,10	PSO1,2,3
38.	18BT71Internship	-----	-----	PPT	PO1,2,3,4,5,6,7,8,9,10	PSO1,2,3
39.	18BT81 Regulatory affairs in Biotechnology	-----	Google classroom	Chalk and Talk method PPT	PO 1,2,3,10,12	PSO1,2
40.	18BT821 Environmental biotechnology	-----	Google classroom	Chalk and Talk method PPT	PO1,2,3,4,7,9,11	PSO1,2
41.	18BT822Industrial Microbiology	-----	Google classroom	Chalk and Talk method	PO1,2,3,4,7,9,11	PSO1,2

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25.	PCC21BT63 Enzyme Technology	-----	Google classroom & Google meet	Chalk and Talk method, Project and Internship	PO1,2,3,4,9,10,12	PSO1,2
26.	21BT641 Human Anatomy and Physiology	Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method, NPTEL Videos, PPT	PO1,2,3,4,6,9,10,11,12	PSO1,2
27.	21BT651 Ecology and Ecosystem	-----	Google classroom & Google meet	Chalk and Talk method PPT	PO1,2,3,4,6,7,9,10,11,12	PSO1,2,3
28.	PCC21BTL66 Enzyme Technology lab	- Conduction of new experiments which are beyond the syllabus	Google classroom & Google meet	Chalk and Talk method PPT	PO1,2,3,4,5, 9,10,12	PSO1,2
29.	MP21BTMP67 Mini project	-----	Google classroom & Google meet	Chalk and Talk method PPT, Project	PO 1,2,3,8,10,11,12	PSO 1,2
30.	INT21INT68 Innovation/Entrepreneurs hip /Societal Internship	-----	Google classroom & Google meet	Chalk and Talk method PPT	PO 1,2,3,8,10,11,12	PSO 1,2
31.	18BT71 Bioprocess Engineering	-----	Google classroom	Chalk and Talk method, NPTEL	PO1,3,4,6, 9,10	PSO1,2
32.	18BT72 Clinical & Pharmaceutical Biotechnology	-----	Google classroom	Chalk and Talk method, NPTEL Videos, PPT	PO 1,2,3,8,10,11,12	PSO1,2,
33.	18T732 Bioreactor Design Concepts	-----	Google classroom	Chalk and Talk method	PO 1,2,3,8,10,11,12	PSO1,2

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