

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION 2015-16**  
**B.E. Biotechnology**

VI Semester

Sl No.	Subject Code	Title	Teaching Hours/Week			Examination				Credits
			Lecture	Tutorial	Practical /Drawing	Duration	I.A. Marks	Theory /Practical Marks	Total Marks	
1	15BT61	Bio-business and Entrepreneurship	4	0	0	3	20	80	100	4
2	15BT62	Bioprocess Control and Automation	4	0	0	3	20	80	100	4
3	15BT63	Enzyme Technology and Biotransformation	4	0	0	3	20	80	100	4
4	15BT64	Bioprocess Equipment Design & CAED	4	0	0	4	20	80	100	4
5	15BT65X	Professional Elective - 2	3	0	0	3	20	80	100	3
6	15BT66X	Open Elective - 2	3	0	0	3	20	80	100	3
7	15BTL67	Bioprocess Control and Automation Lab	0	0	3	3	20	80	100	2
8	15BTL68	Biokinetics and Enzyme Technology Lab	0	0	3	3	20	80	100	2
TOTAL			22	0	6	-	160	640	800	26

Professional Elective - 2		Open Elective - 2	
15BT651	Bio-molecular Engineering	15BT661	Biological Data Management
15BT652	Advanced Microbiology	15BT662	Nano BT
15BT653	Cell Culture Techniques	15BT663	GMP
15BT654	Economics and Plant Design		

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VII Semester

Sl No.	Subject Code	Title	Teaching Hours/Week			Examination				Credits
			Lecture	Tutorial	Practical /Drawing	Duration	I.A. Marks	Theory /Practical Marks	Total Marks	
1	15BT71	Fermentation Technology	4	0	0	3	20	80	100	4
2	15BT72	Genomics and Proteomics	4	0	0	3	20	80	100	4
3	15BT73	Plant BT	4	0	0	3	20	80	100	4
4	15BT74X	Professional Elective - 3	3	0	0	3	20	80	100	3
5	15BT75X	Professional Elective - 4	3	0	0	3	20	80	100	3
6	15BTL76	Fermentation Technology Lab	0	0	3	3	20	80	100	2
7	15BTL77	Plant BT lab	0	0	3	3	20	80	100	2
8	15BT78	Project Phase -1 + Seminar	-	-	-	3	100	-	100	2
TOTAL			18	0	6	-	240	560	800	24

Professional Elective - 3		Professional Elective - 4	
15BT741	Health Informatics	15BT751	Diary BT
15BT742	Bioreactor Design Concepts	15BT752	Forensic Sciences
15BT743	Lab to Industrial Scaling	15BT753	Molecular Diagnostics
15BT744	Food BT	15BT754	Big Data Management

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VIII Semester

Sl No.	Subject Code	Title	Teaching Hours/Week			Examination				Credits
			Lecture	Tutorial	Practical /Drawing	Duration	I.A. Marks	Theory /Practical Marks	Total Marks	
1	15BT81	Clinical and Pharmaceutical Biotechnology	4	0	0	3	20	80	100	4
2	15BT82	Regulatory affairs in BT industry	3	0	0	3	20	80	100	4
3	15BT83X	Professional Elective - 5	3	0	0	3	20	80	100	3
4	15BT84	Internship/Professional Practice	-	-	-	3	50	50	100	2
5	15BT85X	Project Work Phase 2	-	-	-	3	100	100	200	6
6	15BTL86	Seminar	-	-	-	3	100	-	100	1
TOTAL			10	0	0	-	310	390	700	20

Professional Elective - 5	
15BT831	Protein Engineering and In-Silico Drug Design
15BT832	Metabolic Engineering
15BT833	Environmental BT