



Chhattisgarh Swami Vivekanand Technical University, Bhilai (CG)

Scheme for B. Tech. First Semester (Biotechnology 3018)

S.No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Assessment/ assignment hours per week	Teaching Hours/sem
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1.	Applied Mathematics	Engineering Mathematics-1	3000A02AT014	BFC-BSC	3	1		100	20	20	140	4	1	60
2.	Applied Physics	Engineering Physics (Non Circuit)	3000A04AT015	BFC-BSC	3	-	-	100	20	20	140	3	1	45
3.	Electrical Engineering	Basic Electrical Engineering	3000A05AT024	BFC-ESC	3	-	-	100	20	20	140	3	1	45
4.	Biotechnology	QA, QC, and GMP of Medical Devices	3018A01CT018	SBS-PCC	3	1	-	100	20	20	140	4	1	60
5.	Humanities	Professional Communication Skills	3000A06DT046	AEC-HSMC	2		-	50	10	10	70	2	1	30
6.	Humanities	Foundation course on Ancient Indian Knowledge System	3000A07ET046	IKS	2	-	-	50	10	10	70	2	1	30
7.	Computer Science Engineering	Fundamentals of Computer & IT Lab	3000A02CL022	SBS-ESC	-	-	4	40	-	20	60	2	1	60
8.	Biotechnology	QA, QC, and GMP of Medical Devices (LaB)	3018A01CL018	SBS-PCC	-	-	2	40	-	20	60	1	-	30
9.	Applied Physics	Engineering Physics Lab (Non Circuit)	3000A04AL015	BFC-BSC	-	-	2	40	-	20	60	1	-	30
10.	Electrical Engineering	Basic Electrical Engineering Lab	3000A05AL024	BFC-ESC	-	-	2	40	-	20	60	1	-	30
11.	Humanities	Sports & Yoga	3000A06FL046	VAC-MNC AU	-	-	2	-	-	30	30	-	-	30
12.	Humanities	Social Service/Community Services	3000A07FL046	VAC-MNC AU	-	-	2	-	-	30	30	-	-	30
13.		Library				1								15
Total					16	3	14	660	100	240	1000	23	105	495
Total Learning Hours/Semester													600	

L-Lecture, P-Practical, ESE-End semester Exam, CT-Class Test, TA-Teacher's Assessment

Note: Abbreviations of Course category

BFC- Basics Foundation Course

SBS- Skilled Based Subject (Branch Specific)

IKS- Indian Knowledge System

AEC- Ability Enhancement Course

VAC- Value Added Course

BSC- Basic Science Courses

ESC- Engineering Science Courses

PCC- Professional Core Courses

HSMC- Humanities, Social Sciences & Management Courses

MNC AU-Mandatory Non Credit Courses – Audit Course



Chhattisgarh Swami Vivekanand Technical University, Bhilai (CG)

Scheme for B. Tech. Second Semester (Biotechnology 3018)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Assessment/assignment hours per week	Teaching Hours
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1.	Applied Mathematics	Engineering Mathematics-II	3000B02AT014	BFC-BSC	3	1	-	100	20	20	140	4	2	60
2.	Biotechnology	Applied Biotechnology	3018B01CT018	SBS-PCC	3	-	-	100	20	20	140	3	2	45
3.	Applied Chemistry	Environmental Chemistry	3000B03AT011	BFC-BSC	3	-	-	100	20	20	140	3	1	45
4.	Computer Science Engineering	Concepts of Programming Language	3000B04AT022	BFC-ESC	3	-	-	100	20	20	140	3	1	45
5.	Humanities	Indian Culture and Constitution	3000B05ET046	IKS	2	-	-	50	10	10	70	2	1	30
6.	Management	Cyber Law and Ethics	3000B06FT076	VAC	1	-	-	50	10	10	70	1	1	15
7.	Computer Science Engineering	Concepts of Programming Language (Lab)	3000B02AL022	BFC-ESC	-	-	2	40	-	20	60	1	1	30
8.	Mechanical Engineering	Engineering Graphics (Lab)	3000B03AL037	BFC-BSC	-	-	4	40	-	20	60	2	2	60
9.	Applied Chemistry	Environmental Chemistry (Lab)	3000B04AL011	BFC-BSC	-	-	2	40	-	20	60	1	-	30
10.	Biotechnology	Applied Biotechnology (Lab)	3018B01CL018	SBS-PCC	-	-	2	40	-	20	60	1	-	30
11.	Humanities	Value Education	3000B07FT046	VAC-MNCAU	1	-	-	-	-	30	30	-	-	15
12.	Civil Engineering	Civil Engg-Societal and Global Impact	3000B08FT020	VAC-MNCAU	1	-	-	-	-	30	30	-	-	15
13.		Library				1								15
Total					17	2	10	660	100	240	1000	21	165	435
Total Learning Hours/semester													600	

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CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI (C.G.)

Scheme of Teaching and Examination

Scheme for B.Tech Third Semester (Bio-Technology-3018)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Teaching Hours/sem	Assessment hours/sem (Assignment/ Practical file)
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1	Biotechnology	Microbial Technology	3018C01AT018	BFS-BSC	2	1	-	100	20	20	140	3	45	15
2	Biotechnology	Genetic Engineering	3018C02BT018	PCC	2	1	-	100	20	20	140	3	45	15
3	Biotechnology	Biochemistry	3018C03BT018	PCC	2	1	-	100	20	20	140	3	45	15
4	Biotechnology	Nano-Biotechnology	3018C04CT018	SBS-PCC	2	1	-	100	20	20	140	3	45	15
5	Biotechnology	Biofabrication and Biodesign for Artificial	3018C05CT018	SBS-PCC	2	1	-	100	20	20	140	3	45	15
6	Humanities	Life Concept by bhagvat gita	3000C06ET046	IKS	2	-	-	100	20	20	140	2	30	15
7	Biotechnology	Microbial Technology Lab	3018C01BL018	PCC	-	-	2	40	-	20	60	1	30	15
8	Biotechnology	Bio Chemistry Lab	3018C02BL018	PCC	-	-	2	40	-	20	60	1	30	15
9	Biotechnology	Nano-Biotechnology Lab	3018C03CL018	SBS-PCC	-	-	2	40	-	20	60	1	30	15
10	Biotechnology	Idea Innovation Lab	3018C04FL018	VAC		-	2	-	-	40	40	1	30	15
11	Management	Personality Development	3000C07DT076	AEC-MNC AU	1		2			40	40	-	45	15
12		Library				1		-	-	-	-	-	15	-
Total					13	6	10	720	120	260	1100	21	435	165
Total Learning Hours/Semester													600	

L- Lecture, P- Practical, ESE- End Semester Exam, CT- Class Test, TA- Teacher Assessment

Note: Abbreviations of Course category

BFS Basics Foundation Subject
 BSC Basic Science Courses
 PCC Professional Core Courses
 VAC Value Added Course

SBS Skilled Based Subject (Branch Specific)
 IKS Indian Knowledge System
 AEC Ability Enhancement Course
 MNC AU Mandatory Non Credit Courses – Audit Course



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI (C.G.)

Scheme of Teaching and Examination

Scheme for B.Tech Fourth Semester (Bio-Technology-3018)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Teaching Hours	Assessment hours/sem (Assignment /Practical file)
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1	Biotechnology	Recombinant DNA Technology	3018D01BT018	PCC	3	1	-	100	20	20	140	4	60	15
2	Biotechnology	Immunology and Immunotechnology	3018D02BT018	PCC	3	1	-	100	20	20	140	4	60	15
3	Biotechnology	Bioprocess Engineering	3018D03BT018	PCC	3	1	-	100	20	20	140	4	60	15
4	Biotechnology	Bioinformatics and Computational Biology	3018D04CT018	SBS-PCC	2	1	-	100	20	20	140	3	45	15
5	Biotechnology	Biophysics	3018D05BT018	PCC	1	1		100	20	20	140	2	30	15
6	Humanities	Indian Traditional Knowledge: Science & Practices	3000D06ET046	IKS	2	-	-	50	10	10	70	2	30	10
7	Biotechnology	Recombinant DNA Technology Lab	3018D01BL018	PCC	-	-	2	40	-	20	60	1	30	10
8	Biotechnology	Immunology and Immunotechnology Lab	3018D02BL018	PCC	-	-	2	40	-	20	60	1	30	10
9	Biotechnology	Bioinformatics and Computational Biology Lab	3018D03BL018	PCC	-	-	2	40	-	20	60	1	30	10
10	Biotechnology	Software Lab	3018D04CL018	SBS-PCC	-	-	2	40	-	20	60	1	30	10
11	Management	Entrepreneurship Development and Startups	3000D07DT076	AEC-MNC AU	2		-	-	-	50	50	-	30	10
12	Humanities	Emotional Intelligence and Social Learning	3000D08FT046	VAC-MNC AU	1					40	40		15	-
13		Library				1		-	-		-		15	-
Total					17	6	8	710	110	280	1100	23	465	135
Total Learning Hours/semester														600

L- Lecture, P- Practical, ESE- End Semester Exam, CT- Class Test, TA- Teacher Assessment

Note: Abbreviations of Course category

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