



Chhattisgarh Swami Vivekanand Technical University, Bhilai (CG)

Scheme for B. Tech. First Semester (Chemical Engineering 3019)

S.No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Assessment/a ssignment 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.	Chemical	Inorganic Process Technology	3019A01CT019	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.	Chemical	Inorganic Process Technology (LaB)	3019A01CL019	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 (Chemical Engineering 3019)

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.	Chemical Engineering	Mechanical Operation	3019B01CT019	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	3000B09FT076	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.	Chemical Engineering	Mechanical Operation (Lab)	3019B01CL019	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 (Chemical Engineering-3019)

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	Applied Mathematics	Engineering Mathematics-III	3000C01AT014	BFS-BSC	2	1	-	100	20	20	140	3	45	15
2	Chemical Engineering	Fuel Technology	3019C02BT019	PCC	2	1	-	100	20	20	140	3	45	15
3	Chemical Engineering	Instrumentation and Measurement	3019C03BT019	PCC	2	1	-	100	20	20	140	3	45	15
4	Chemical Engineering	Organic Process Technology	3019C04CT019	SBS-PCC	2	1	-	100	20	20	140	3	45	15
5	Chemical Engineering	Material and Energy Balance Computations	3019C05CT019	SBS-PCC	2	1	-	100	20	20	140	3	45	15
6	Humanities	Life Concept by Bhagwat Gita	3000C06ET046	IKS	2	-	-	100	20	20	140	2	30	15
7	Chemical Engineering	Fuel Technology Lab	3019C01BL019	PCC	-	-	2	40	-	20	60	1	30	15
8	Chemical Engineering	Instrumentation and Measurement Lab	3019C02BL019	PCC	-	-	2	40	-	20	60	1	30	15
9	Chemical Engineering	Organic Process Technology Lab	3019C03CL019	SBS-PCC	-	-	2	40	-	20	60	1	30	15
10	Chemical Engineering	Idea Innovation Lab	3019C04FL019	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 (Chemical Engineering-3019)

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	Chemical Engineering	Heat Transfer Operation	3019D01BT019	PCC	3	1	-	100	20	20	140	4	60	15
2	Chemical Engineering	Fluid Mechanics	3019D02BT019	PCC	3	1	-	100	20	20	140	4	60	15
3	Chemical Engineering	Petroleum Refinery Engineering	3019D03BT019	PCC	3	1	-	100	20	20	140	4	60	15
4	Chemical Engineering	Numerical Method in Chemical Engineering	3019D04CT019	SBS-PCC	2	1	-	100	20	20	140	3	45	15
5	Chemical Engineering	Material Science	3019D05BT019	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	Chemical Engineering	Heat Transfer Operation Lab	3019D01BL019	PCC	-	-	2	40	-	20	60	1	30	10
8	Chemical Engineering	Fluid Mechanics Lab	3019D02BL019	PCC	-	-	2	40	-	20	60	1	30	10
9	Chemical Engineering	Petroleum Refinery Engineering Lab	3019D03BL019	PCC	-	-	2	40	-	20	60	1	30	10
10	Chemical Engineering	Software Lab– C++ Programming	3019D04CL019	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

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Note: Abbreviations of Course category

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