



## Chhattisgarh Swami Vivekanand Technical University, Bhilai (CG)

### Scheme for B. Tech. First Semester (Mechanical Engineering)

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	3000A04AT024	BFC-ESC	3	-	-	100	20	20	140	3	1	45
4.	Mechanical	Fundamentals of Mechanical Engineering	3037A01CT037	SBS-PCC	3	1	-	100	20	20	140	4	1	60
5.	Humanities	Professional Communication Skills	3000A05DT046	AEC-HSM C	2		-	50	10	10	70	2	1	30
6.	Humanities	Foundation course on Ancient Indian Knowledge System	3000A06ET046	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.	Mechanical	Fundamentals of Mechanical Engineering (Lab)	3037A01CL037	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	3000A04AL024	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
<b>Total</b>					<b>16</b>	<b>3</b>	<b>14</b>	<b>660</b>	<b>100</b>	<b>240</b>	<b>1000</b>	<b>23</b>	<b>105</b>	<b>495</b>
<b>Total Learning Hours/Semester</b>												<b>600</b>		

**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 (Mechanical Engineering)

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.	Mechanical	Smart Manufacturing	3037B01CT037	SBS-PCC	3	-	-	100	20	20	140	3	2	45
3.	Applied Chemistry	Environmental Chemistry	3000B03AT011	BFC-BSC	3	-	-	100	20	20	140	3	2	45
4.	Computer Science Engineering	Concepts of Programming Language	3000B04DT022	AEC-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	3000B06FL076	VAC	1	-	-	50	10	10	70	1	1	15
7.	Computer Science Engineering	Concepts of Programming Language (Lab)	3000B02DL022	AEC-ESC	-	-	2	40	-	20	60	1	1	30
8.	Mechanical Engineering	Engineering Graphics (Lab)	3000B03AL037	BFC-BSC	-	-	4	40	-	20	60	2	1	60
9.	Applied Chemistry	Environmental Chemistry (Lab)	3000B04AL011	BFC-BSC	-	-	2	40	-	20	60	1	-	30
10.	Mechanical	Smart Manufacturing (Lab)	3037B01CL037	SBS-PCC	-	-	2	40	-	20	60	1	-	30
11.	Humanities	Value Education	3000B05FL046	VAC-MNCAU	1	-	-	-	-	30	30	-	-	15
12.	Civil Engineering	Civil Engg-Societal and Global Impact	3000B07FL020	VAC-MNCAU	1	-	-	-	-	30	30	-	-	15
13.		Library				1								15
<b>Total</b>					<b>17</b>	<b>2</b>	<b>10</b>	<b>660</b>	<b>100</b>	<b>240</b>	<b>1000</b>	<b>21</b>	<b>165</b>	<b>435</b>
<b>Total Learning Hours/semester</b>												<b>600</b>		

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