



# Chhattisgarh Swami Vivekanand Technical University (CSV TU), Bhilai (C.G.)

## SCHEME OF TEACHING AND EXAMINATION

### B Tech (Third Semester – Plastics Engineering)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Marks	Credit
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1.	Basic Science	Mathematics - III	B000311(014)	3	1	-	100	20	30	150	4
2.	Plastics Engineering	Polymer Chemistry	B095312(095)	3	1	-	100	20	30	150	4
3.	Plastics Engineering	Fundamentals of Plastics Product, Mould & Die Design	B095313(095)	3	1	-	100	20	30	150	4
4.	Plastics Engineering	Strength of Materials	B095314(095)	2	1	-	100	20	30	150	3
5.	Plastics Engineering	Thermodynamics for Plastics Engineering	B095315(095)	2	-	-	100	20	30	150	2
6.	Plastics Engineering	Polymer Chemistry Lab	B095321(095)	-	-	2	40	-	20	60	1
7.	Plastics Engineering	CAD/CAM Lab	B095322(095)	-	-	2	40	-	20	60	1
8.	Plastics Engineering	Strength of Materials Lab	B095323(095)	-	-	2	40	-	20	60	1
9.	Plastics Engineering	Software Lab	B095324(095)	-	-	2	40	-	20	60	1
10.	Humanities	Personality Development	B000306(046)	-	-	2	-	-	10	10	-
Total Marks				13	4	10	660	100	240	1000	21

**L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam, CT- Class Test, TA-Teacher's Assessment**

**CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY,  
BHILAI (C.G.)  
SCHEME OF TEACHING AND EXAMINATION  
B.Tech (Plastics Engineering) IV Semester**

SN.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Marks	Credits
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1.	Plastics Engineering	Mould Engineering	B095411(095)	3	1	-	100	20	30	150	4
2.	Plastics Engineering	Advance Mould Design	B095412(095)	3	1	-	100	20	30	150	4
3.	Plastics Engineering	Physical Polymer Chemistry	B095413(095)	3	1	-	100	20	30	150	4
4.	Plastics Engineering	Material Science	B095414(095)	2	1	-	100	20	30	150	3
5.	Plastics Engineering	Instrumentation & Measurement	B095415(095)	2	0	-	100	20	30	150	2
6.	Plastics Engineering	Mould Engineering Lab	B095421(095)	-	-	2	40	-	20	60	1
7.	Plastics Engineering	Instrumentation & Measurement Lab	B095422(095)	-	-	2	40	-	20	60	1
8.	Plastics Engineering	Advance Mould Design practice using CAD /CAM /CAE Lab	B095423(095)	-	-	2	40	-	20	60	1
9.	Plastics Engineering	Virtual Lab	B095424(095)	-	-	2	40	-	20	60	1
10.	Non-Credit	Indian Culture and Constitution of India	B000406(046)	-	-	2	-	-	10	10	-
Total				13	4	10	660	100	240	1000	21

L: Lecture, T: Tutorial, P: Practical, ESE: End Semester Examination, CT: Class Test, TA: Teacher's Assessment

**Note:**

1. Duration of End Semester Exam of all theory papers will be of Three Hours.
2. Industrial Training of eight weeks is mandatory for B.Tech.. Student. It is to be completed in two parts.
  - The first part will be in summer after IV semester after which students have to submit a training report which will be evaluated by the college teachers during B.E. V semester.



# Chhattisgarh Swami Vivekanand Technical University (CSVTV, NEWAI (C.G.))

## SCHEME OF TEACHING AND EXAMINATION

### B Tech (Fifth Semester – Plastic Engineering)

Sl. No.	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Plastics Engineering	Plastic Materials - I	C095511(095)	3	1		100	20	30	150	4
2.	Plastics Engineering	Plastics Testing Technology-I	C095512(095)	3	1	-	100	20	30	150	4
3.	Plastics Engineering	Plastics Processing Technology - I	C095513(095)	2	1	-	100	20	30	150	4
4.	Plastics Engineering	Additives & Compounding	C095514(095)	3	1	-	100	20	30	150	3
5.	Professional Elective-1 (Refer Table I)			2	-	-	100	20	30	150	2
6.	Plastics Engineering	Plastics Testing –I Lab	C095521(095)	-	-	2	40	-	20	60	1
7.	Plastics Engineering	Plastics Processing Technology-I Lab	C095522(095)	-	-	2	40	-	20	60	1
8.	Plastics Engineering	Additives & Compounding Lab	C095523(095)	-	-	2	40	-	20	60	1
9.	Plastics Engineering	Project –I, Based on Summer Internship/ Industrial Training	C095524(095)	-	-	2	40	-	20	60	1
10.	Civil Engg.	Environmental Studies	C000506(020)	-	-	2	-	-	10	10	-
Total				13	4	10	660	100	240	1000	21

L – Lecturer ,T – Tutorial, P – Practical , CT –ClassTest ESE – End Semester Exam TA – Teacher's Assessment

- Note: - The students has to attended the four weeks industrial training / summer internship in B. Tech program after fourth semester, which will be evaluated in fifth semester.

**Table I (Professional Elective I )**

S.N.	Board of Studies	Course Code	Subject
1.	Plastics Engineering	C095531(095)	Fluid Flow operations
2.	Plastics Engineering	C095532(095)	Polymer Degradation and Stabilization
3.	Plastics Engineering	C095533(095)	Polyurethane Technology
4.	Plastics Engineering	C095534(095)	Special Processing Technology

Note: (1) 1/4<sup>th</sup> of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.

(2) Choice of elective course once made for an examination cannot be changed in future examinations.



### SCHEME OF TEACHING AND EXAMINATION

#### B Tech (Sixth Semester – Plastics Engineering)

Sl. No.	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Plastics Engineering	Plastic Materials II	C095611(095)	3	1	-	100	20	30	150	4
2.	Plastics Engineering	Plastics Testing Technology-II	C095612(095)	3	1	-	100	20	30	150	4
3.	Plastics Engineering	Plastics Processing Technology -II	C095613(095)	3	1	-	100	20	30	150	4
4.	Professional Elective-II (Refer Table I)			2	1	-	100	20	30	150	3
5.	Open Elective – I (Refer Table II)			2	0	-	100	20	30	150	2
6.	Plastics Engineering	Plastics Testing -II Lab	C095621(095)	-	-	2	40	-	20	60	1
7.	Plastics Engineering	Plastics Processing Lab-II	C095622(095)	-	-	2	40	-	20	60	1
8.	Plastics Engineering	Plastics Product Testing Lab	C095623(095)	-	-	2	40	-	20	60	1
9.	Plastics Engineering	Polymer Characterisation Lab	C095624(095)	-	-	2	40	-	20	60	1
10.	Humanities	Technical Communication and Soft Skill	C000625(046)	-	-	2	-	-	10	10	-
<b>Total</b>				<b>13</b>	<b>4</b>	<b>10</b>	<b>660</b>	<b>100</b>	<b>240</b>	<b>1000</b>	<b>21</b>

L – Lecturer  
P – Practical,

T – Tutorial, TA – Teacher's Assessment  
ESE – End Semester Exam, CT –ClassTest

**Table I (Professional Elective II)**

S.N.	Board of Studies	Subject	Course Code
1.	Plastics Engineering	Membrane Science and Engineering	C095631(095)
2.	Plastics Engineering	Nanotechnology	C095632(095)
3.	Plastics Engineering	Polymer blends & alloys	C095633(095)
4.	Plastics Engineering	Speciality polymers	C095634(095)

**Note: (1) 1/4<sup>th</sup> of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.**

**(2) Choice of elective course once made for an examination cannot be changed in future examinations.**



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## B Tech (Sixth Semester)

### List of Open Elective – I (Table III ) (For 6<sup>th</sup> Semester)

S.N.	Board of Studies	Subject	Course Code
1	Agriculture Engg.	Food Packaging Technology	C000601(094)
2	Agriculture Engg	Energy Management & Audit	C000602(094)
3	Agriculture Engg	Energy Conservation & Management	C000603(094)
4	Agriculture Engg	Disaster Management	C000604(094)
5	Agriculture Engg	Ecology and Sustainable Development	C000605(094)
6	Agriculture Engg	Non Conventional Energy Sources	C000606(094)
7	Mechanical Engineering	Safety Engineering	C000607(037)
8	Mechanical Engineering	Value Engineering	C000608(037)
9	Mechanical Engineering	Managing Innovation & Entrepreneurship	C000609(037)
10	Mechanical Engineering	Environment Pollution & Control	C000610(037)
11	Management	Enterprise Resource Planning	C000611(076)
12	Computer Science Engg.	Artificial Intelligence	C000612(022)
13	Computer Science Engg	Quantum Computing	C000613(022)
14	Computer Science Engg	Cyber Security	C000614(022)
15	Civil Engg	Construction engineering and management	C000615(020)
16	Civil Engg	Metro system and engineering	C000616(020)
17	Civil Engg	Infrastructure Planning and Management	C000617(020)
18	Computer Science Engg	Cyber Security	C000618(022)
19	Computer Science Engg	Parallel Processing & Computing	C000619(022)
20	Computer Science Engg	Cryptography & Network Security	C000620(022)
21	Computer Science Engg	Cloud Computing	C000621(022)
22	Electrical Engineering	Fibre Optics	C000622(024)
23	Electrical Engineering	Microcontroller and Embedded System	C000623(024)
24	Electrical Engineering	Hybrid Electric vehicle	C000624(024)
25	Electrical Engineering	Digital Control System	C000625(024)
26	Electrical and Electronics Engg	Electrical Estimation and Costing	C000626(025)
27	Electrical and Electronics Engg	Energy Auditing and Management	C000627(025)
28	Management	Finance Management	C000628(076)
29	Mechanical Engineering	Safety Engineering	C000629(037)
30	Electronics & Telecom.	AI and Machine learning	C000630(028)
31	Electronics & Telecom.	Operating Systems	C000631(028)
32	Electronics & Telecom.	Internet & Web Technology	C000632(028)
33	Electronics & Telecom.	Database Management Systems (DBMS)	C000633(028)
34	Electronics & Telecom.	Device Modelling	C000634(028)
35	Electronics & Telecom.	Introduction to MEMS	C000635(028)
36	Mechanical Engineering	Principles of Management	C000636(037)
37	Mechanical Engineering	Advanced I.C. Engines	C000637(037)

38	Mechanical Engineering	Mechanical Vibrations & Condition Monitoring	<b>C000638(037)</b>
39	Mechatronics	Entrepreneurship Developments	<b>C000639(067)</b>
40	Mechatronics	Enterprise Resource Planning (Except CSE & IT Branch)	<b>C000640(067)</b>
41	Plastic Engineering	Heat Transfer Operation	<b>C000641(095)</b>
42	Plastic Engineering	Process Economics and Management	<b>C000642(095)</b>
43	Plastic Engineering	Adhesive and Surface Coating	<b>C000643(095)</b>
44	Information Technology	E-Commerce	<b>C000644(033)</b>
45	Information Technology	Industrial Economics and Management	<b>C000645(033)</b>
46	Information Technology	Project Planning & Management	<b>C000646(033)</b>
47	Information Technology	Bio-Informatics	<b>C000647(033)</b>
48	Information Technology	Management Information System	<b>C000648(033)</b>