



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:

- Duration of End Semester Exam of all theory papers will be of Three Hours.
- 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) 1/4th 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	C000601(046)	-	-	2	-	-	10	10	-
Total				13	4	10	660	100	240	1000	21

L – Lecturer
P – Practical,

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

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) 1/4th 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.



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

SCHEME OF TEACHING AND EXAMINATION

B Tech (Seventh Semester – Plastic Engg.)

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.	Plastic Engg.	Polymer Composite Technology	D095711(095)	3	1	-	100	20	30	150	4
2.	Plastic Engg.	Plastics Packaging Technology	D095712(095)	2	1	-	100	20	30	150	3
3.	Plastic Engg.	Plastic Product Design for Engineering Applications	D095713(095)	2	1	-	100	20	30	150	3
4.	Professional Elective –III (Refer to Table I)			1	1	-	100	20	30	150	2
5.	Open Elective- II (Refer to Table II)			2	0	-	100	20	30	150	2
6.	Plastic Engg.	Polymer Composite Products Testing Lab	D095721(095)	-	-	2	40	-	20	60	1
7.	Plastic Engg.	Modern Plastic Product and Mould Design Lab	D095722(095)	-	-	2	40	-	20	60	1
8.	Plastic Engg.	Project (Phase I)	D095723(095)	-	-	6	60	-	40	100	3
9.	Plastic Engg.	Industrial Training	D095724(095)			2			20	20	1
10.	Humanities	Universal Human Values 2	D000701(046)	-	-	2	-	-	10	10	-
Total Marks				10	4	14	640	100	260	1000	20

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

➤ Note: - The students have to attend the four weeks industrial training / summer internship in B. Tech program after sixth semester, which will be evaluated in seventh semester.

Table I (Professional Elective III)

S.N.	Board of Studies	Course Code	Subject
1.	Plastic Engg.	D095731(095)	Biodegradable Polymer
2.	Plastic Engg.	D095732(095)	Polymer rheology
3.	Plastic Engg.	D095733(095)	Polyurethane technology

Note: (1) 1/4th 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.



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

SCHEME OF TEACHING AND EXAMINATION

B Tech (Eighth 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.	Plastics Engineering	Rubber Technology	D095811(095)	3	1	-	100	20	30	150	4
2.	Professional Elective–IV (Refer to Table-I)			2	1	-	100	20	30	150	3
3.	Open Elective–III (Refer to Table-III)			2	0	-	100	20	30	150	2
4.	Plastics Engineering	Ealstomer Testing (Lab)	D095821(095)	-	-	2	40	-	20	60	1
5.	Plastics Engineering	Maintenance of Equipment (Lab)	D095822(095)	-	-	2	40	-	20	60	1
6.	Plastics Engineering	Project (Phase-II)	D095823(095)	-	-	14	350	-	80	430	7
Total Marks				7	2	18	730	60	210	1000	18

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

Table-I (Professional Elective-IV)

S.N.	Board of Studies	Course Code	Subject
1	Plastics Engineering	D095831(095)	Conducting polymer
2	Plastics Engineering	D095832(095)	Polymerization Engineering
3	Plastics Engineering	D095833(095)	Polymer Nano composite

Note: (1) 1/4th 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.