



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

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Third Semester – Automobile 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.	Mechanical Engg.	Engineering Thermodynamics	B082312(037)	3	1	-	100	20	30	150	4
3.	Mechanical Engg.	Mechanics of Solids	B082313(037)	3	1	-	100	20	30	150	4
4.	Automobile Engg.	Automotive Petrol Engines	B082314(082)	2	1	-	100	20	30	150	3
5.	Automobile Engg.	Two & Three Wheelers	B082315(082)	2	-	-	100	20	30	150	2
6.	Mechanical Engg	Material Testing Lab	B082321(037)	-	-	2	40	-	20	60	1
7.	Mechanical Engg	Engineering Thermodynamics Lab	B082322(037)	-	-	2	40	-	20	60	1
8.	Automobile Engg.	Two & Three Wheelers Lab	B082323(082)	-	-	2	40	-	20	60	1
9.	Automobile Engg	Software Lab	B082324(082)	-	-	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 (CSV TU), Bhilai (CG)

SCHEME OF TEACHING AND EXAMINATION

B Tech (Fourth Semester - Automobile 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.	Mechanical	Fluid Mechanics	B037412(037)	3	1	-	100	20	30	150	4
2.	Automobile	Automotive Diesel Engines	B037413(082)	3	1	-	100	20	30	150	4
3.	Mechanical	Applied Thermodynamics	B037411(037)	3	1	-	100	20	30	150	4
4.	Mechanical	Kinematics of Machines	B037415(037)	2	1	-	100	20	30	150	3
5.	Automobile	Automotive Chassis	B037414(082)	2	0	-	100	20	30	150	2
6.	Mechanical	Fluid Mechanics Lab	B037421(037)	-	-	2	40	-	20	60	1
7.	Automobile	Automotive Petrol & Diesel Engine Lab	B037422(082)	-	-	2	40	-	20	60	1
8.	Automobile	Automotive Chassis Lab	B037423(082)	-	-	2	40	-	20	60	1
9.	Automobile	Virtual Lab	B037424(082)	-	-	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 Exam, 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 - AUTOMOBILE 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.	Mechanical	Design of Machine Elements	C037515(037)	3	1	-	100	20	30	150	4
2.	Automobile Engg.	Automotive Electricals & Electronics	C082511(082)	3	1	-	100	20	30	150	4
3.	Mechanical	Dynamics of Machines	C037514(037)	3	1	-	100	20	30	150	4
4.	Mechanical	Operation Research	C037516(037)	2	1	-	100	20	30	150	3
5.	Professional Elective -I (Refer Table I)			2	0	-	100	20	30	150	2
6.	Mechanical	Design of Machine Elements Lab	C037525(037)	-	-	2	40	-	20	60	1
7.	Automobile Engg.	Automotive Electrical & Electronics Lab	C082521(082)	-	-	2	40	-	20	60	1
8.	Mechanical	Dynamics of Machines Lab	C037522(037)	-	-	2	40	-	20	60	1
9.	Automobile Engg.	Project-I based on Summer Internship/ Industrial Training	C082523(082)	-	-	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
P – Practical,
TA – Teacher's Assessment

T – Tutorial,
ESE – End Semester Exam,

CT –Class Test

Table I (Professional Elective I

S.N.	Board of Studies	Course Code	Subject
1.	Automobile Engg.	C082531(082)	Engine Auxillary Systems
2.	Automobile Engg.	C082532(082)	Maintenance and Reliability
3.	Automobile Engg.	C082533(082)	Vehicle Transport Management

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 – Automobile 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.	Automobile	Vehicle Design & Maintenance	C082611(082)	3	1	-	100	20	30	150	4
2.	Automobile	Automotive Engine Component Design	C082612(082)	3	1	-	100	20	30	150	4
3.	Mechanical	Heat & Mass Transfer	C082613(082)	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.	Automobile	Vehicle Maintenance Lab	C082621(082)	-	-	2	40	-	20	60	1
7.	Automobile	Automotive Engine Components Lab	C082622(082)	-	-	2	40	-	20	60	1
8.	Mechanical	Heat & Mass Transfer Lab	C082623(082)	-	-	2	40	-	20	60	1
9.	Automobile	Automotive Fuels & Lubricants Lab	C082624(082)	-	-	2	40	-	20	60	1
10.	Humanities	Technical Communication and Soft Skill	C000625(082)	-	-	2	-	-	10	10	-
Total				13	4	10	660	100	240	1000	21

L – Lecturer
P – Practical,
TA – Teacher's Assessment

T – Tutorial,
ESE – End Semester Exam,

CT – Class Test

Table I (Professional Elective II)

S.N.	Board of Studies	Subject	Course Code
1.	Automobile Engineering	New Generation And Hybrid Vehicles	C082631(082)
2.	Automobile Engineering	Supercharging And Scavenging	C082632(082)
3.	Automobile Engineering	Automotive Aerodynamics	C082633(082)
4.	Automobile Engineering	Product Design & Development	C082634(082)

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.))

B Tech (Sixth Semester)

List of Open Elective – I (Table III) (For 6th 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	C000638(037)
39	Mechatronics	Entrepreneurship Developments	C000639(067)
40	Mechatronics	Enterprise Resource Planning (Except CSE & IT Branch)	C000640(067)
41	Plastic Engineering	Heat Transfer Operation	C000641(095)
42	Plastic Engineering	Process Economics and Management	C000642(095)
43	Plastic Engineering	Adhesive and Surface Coating	C000643(095)
44	Information Technology	E-Commerce	C000644(033)
45	Information Technology	Industrial Economics and Management	C000645(033)
46	Information Technology	Project Planning & Management	C000646(033)
47	Information Technology	Bio-Informatics	C000647(033)
48	Information Technology	Management Information System	C000648(033)