



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

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Third Semester – Agriculture 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.	Strength of materials	B094312(037)	3	1	-	100	20	30	150	4
3.	Agriculture Engg.	Engineering properties of biological materials and food quality	B094313(094)	3	1	-	100	20	30	150	4
4.	Agriculture Engg.	Farm power and renewable energy sources	B094314(094)	2	1	-	100	20	30	150	3
5.	Agriculture Engg.	Crop production technology	B094315(094)	2	-	-	100	20	30	150	2
6.	Agriculture Engg.	Engineering properties of biological material lab	B094321(094)	-	-	2	40	-	20	60	1
7.	Agriculture Engg.	Farm power and renewable energy sources Lab	B094322(094)	-	-	2	40	-	20	60	1
8.	Agriculture Engg.	Crop production lab	B094323(094)	-	-	2	40	-	20	60	1
9.	Agriculture Engg.	Software lab	B094324(094)	-	-	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**
SCHEME OF TEACHING AND EXAMINATION
B-TECH (AGRICULTURAL ENGINEERING) IV SEMESTER

Sl. No .	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.	Agri. Engg	Watershed hydrology	B094411 (094)	2	1	-	100	20	30	150	3
2.	Agri. Engg	Soil and water conservation structures	B094412(094)	3	1	-	100	20	30	150	4
3.	Agri. Engg	Crop process, Drying storage engineering	B094413(094)	3	1	-	100	20	30	150	4
4.	Mech. Engg	Engineering Thermodynamics	B094414(094)	3	1	-	100	20	30	150	4
5.	Civil Engg	Soil mechanics	B094415(094)	2	0	-	100	20	30	150	2
6.	Civil Engg	Soil mechanics Lab	B094421(094)	-	-	2	40	-	20	60	1
7.	Agri. Engg	Agricultural Topography & Land Measurement lab	B094422(094)	-	-	2	40	-	20	60	1
8.	Agri. Engg	Crop process, Drying storage engineering Lab	B094423(094)	-	-	2	40	-	20	60	1
9.	Agri. Engg	Virtual Lab	B094423(094)	-	-	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 – Lecturer P – Practical, TA – Teacher's Assessment

Note: (1) Duration of all theory papers will be of Three Hours.

Note: (2) Industrial Training of six weeks in mandatory for B.E. student. It is to be completed in two parts. The first part will be in summer after IV sem. after which students have to submit a training report which will be evaluated by the college teachers during B.E. V sem.



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

SCHEME OF TEACHING AND EXAMINATION

B Tech (Fifth Semester - AGRICULTURAL ENGINEERING)

Sl. No.	Board of Studies	Courses (Subject)	Course Code	L	T	P	Theory/Lab			Total Marks	Credits
							ESE	CT	TA		
1.	Mech. Engg	Theory of machine	C037516(037)	3	1	-	100	20	30	150	4
2.	Agri Engg	Irrigation and drainage Engg	C094511(094)	3	1	-	100	20	30	150	4
3.	Agri Engg	Ground water wells and pumps	C094512(094)	3	1	-	100	20	30	150	4
4.	Agri Engg	Farm machinery and equipments	C094513(094)	2	1	-	100	20	30	150	3
5.	Professional Elective –I (Refer to Table I)			2	0	-	100	20	30	150	2
6.	Agri Engg	Farm machinery and equipments lab	C094521(094)	-	-	2	40	-	20	60	1
7.	Agri Engg	Irrigation and drainage engg lab	C094522(094)	-	-	2	40	-	20	60	1
8.	Agri Engg	Dairy and food engg Lab	C094523(094)	-	-	2	40	-	20	60	1
9.	Agri Engg	Project –I Based on summer internship/ industrial training	C094524(094)	-	-	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.	Agri Engg	C094531(094)	Dairy and food engineering
2.	Agri Engg	C094532(094)	Waste & by product utilization
3.	Agri Engg	C094533(094)	Development of processed products and development
4.	Agri Engg	C094534(094)	Reservoir and farm pond design
5.	Agri Engg	C094535(094)	Gully and ravine control structures

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 – Agriculture 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.	Agriculture Engg.	Tractor systems and controls	C094611(094)	3	1	-	100	20	30	150	4
2.	Agriculture Engg.	Agriculture structures and environmental control	C094612(094)	3	1	-	100	20	30	150	4
3.	Mechanical Engg	Machine Design	C094613(037)	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.	Mech. Engg	Database Management and internet lab	C094621(037)	-	-	2	40	-	20	60	1
7.	Agriculture Engg.	Tractor systems and control lab	C094622(037)	-	-	2	40	-	20	60	1
8.	Agriculture Engg.	Agriculture structures and environmental control lab	C094623(037)	-	-	2	40	-	20	60	1
9.	Agriculture Engg.	Tractor and farm machinery lab	C094624(037)	-	-	2	40	-	20	60	1
10.	Non- credit	Technical Communication and Soft Skill	C000601(046)	-	-	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 –ClassTest

Table I (Professional Elective II)

S.N.	Board of Studies	Subject	Course Code
1.	Agriculture Engg.	Design & maintenance of green house	C094631(094)
2.	Agriculture Engg	Quality Control & Total Quality Management	C094632(094)
3.	Agriculture Engg	Remote sensing and GIS applications	C094633(094)
4.	Agriculture Engg	Engineering Economics	C094634(094)
5.	Agriculture Engg	Mechanics of tillage & traction	C094635(094)
6.	Agriculture Engg	Computer Graphics	C094636(094)

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)