CURRICULAR STRUCTURE FOR PART – I FIRST SEMESTER OF THE FULL-TIME DIPLOMA COURSES IN ENGINEERING & TECHNOLOGY

(For the disciplines of ME, MEP, CE, AE, MIN, MS, SE, PT, LGT, FWT and AGR)

Sl. No.	Subject Code	Subject of Study	Contact Periods / Week			Examination Scheme				Full Marks		Page No.
						Internal		External				
		Theoretical Papers	Lecture	Tutorial	Sessional	Assessment	Attendance	Objective	Subjective	Th.	Ses.	
1.	* / 1 / T1 / CSS	Communication Skills (Studies)	2	1	—	10	2	—	38	50	—	
2.	* / 1 / T2 / PHY1	Physics – I	3	—	—	10	2	13	25	50	—	
3.	* / 1 / T3 / CHM1	Chemistry – I	2	1	—	10	2	13	25	50	—	
4.	* / 1 / T4 / MTHS	Mathematics	5	—	—	20	5	25	50	100	—	
5.	* / 1 / T5 / EMK	Engineering Mechanics	3	1	—	20	5	25	50	100	—	
6.	* / 1 / T6 / ED	Engineering Drawing (**Group-A**)	—	—	—	—	—	—	—	—	—	
		Sessional Papers	**Lecture**	**Tutorial**	**Sessional**	**Internal**		**External**		**Th.**	**Ses.**	—
7.	* / 1 & 2 / S1 / LPHY	Physics Lab (Group – A)	—	—	3	12.5		—		—	—	
8.	* / 1 & 2 / S2 / LCHM	Chemistry Lab (Group – A)	—	—	3	12.5		—		—	—	
9.	* / 1 & 2 / S3 / SED	Engineering Drawing (S)	—	—	6	50		—		—	—	
10.	* / 1 & 2 / S4 / WSPR	Workshop Practice	—	—	6	50		—		—	—	
*** Code for discipline**		**T O T A L**	**15**	**3**	**18**	**——**		—		**350**	**—**	—

CURRICULAR STRUCTURE FOR PART – I SECOND SEMESTER OF THE FULL-TIME DIPLOMA COURSES IN ENGINEERING & TECHNOLOGY

(For the disciplines of ME, MEP, CE, AE, MIN, MS, SE, PT, LGT, FWT and AGR)

Sl. No.	Subject Code	Subject of Study	Contact Periods / Week			Examination Scheme				Full Marks		Page No.
						Internal		External				
		Theoretical Papers	Lecture	Tutorial	Sessional	Assessment	Attendance	Objective	Subjective	Th.	Ses.	
1.	* / 2 / T1 / BEA	Business Economics & Accountancy	4	—	—	20	5	25	50	100	—	
2.	* / 2 / T2 / PHY2	Physics – II	2	—	—	10	2	13	25	50	—	
3.	* / 2 / T3 / CHM2	Chemistry – II	2	—	—	10	2	13	25	50	—	
4.	* / 2 / T4 / CAP	Computer Applications & Programming	3	—	—	10	2	13	25	50	—	
5.	* / 2 / T5 / EMTH	Engineering Mathematics	3	—	—	20	5	25	50	100	—	
6.	* / 2 / T6 / SOM	Strength of Materials	3	—	—	20	5	25	50	100	—	
7.	* / 2 / T7 / ETK	Electrical Technology	2	—	—	10	2	13	25	50	—	
8.	* / 2 / T8 / ED	Engineering Drawing (4 hr. Exam.)	—	—	—	20	5	25	50	100	—	
		Sessional Papers	**Lecture**	**Tutorial**	**Sessional**	**Internal**		**External**		**Th.**	**Ses.**	—
9.	* / 1 & 2 / S1 / LPHY	Physics Lab (Group – B)	—	—	2	12.5		25		—	50	
10.	* / 1 & 2 / S2 / LCHM	Chemistry Lab (Group – B)	—	—	2	12.5		25		—	50	
11.	* / 1 & 2 / S3 / SED	Engineering Drawing (S) (group – B)	—	—	6	50		100		—	200	
12.	* / 1 & 2 / S4 / WSPR	Workshop Practice	—	—	6	50		100		—	200	
13.	* / 2 / S5 / LCAP	Computer Applications & Programming Lab	—	—	3	50		50		—	100	
14.	* / 2 / S6 / LETK	Electrical Technology Lab	—	—	2	25		25		—	50	
*** Code for discipline**		**T O T A L**	**19**	—	**21**	—		—		**600**	**650**	—

CURRICULUM STRUCTURE FOR THIRD SEMESTER OF THE FULL-TIME DIPLOMA COURSE IN AGRICULTURAL ENGINEERING

Sl. No	Subject Code	Subject of Study	Study Scheme		Examination Scheme				Full Marks	
			Contact Hour/Week		Internal		External			
		Theoretical Papers	Lecture	Sessional	Assessment	Attendance	Objective	Subjective	Th	Ses
1	T-301	Basic Soil Science	3	0	20	5	25	50	100	0
2	T-302	Surveying & Leveling	3	0	20	5	25	50	100	0
3	T-303	Hydraulics	3	0	20	5	25	50	100	0
4	T-304	Agricultural Process Engineering	3	0	20	5	25	50	100	0
5	T-305	Thermodynamics &Transfer Process	3	0	20	5	25	50	100	0
6	T-306	Environmental Engineering	3	0	20	5	25	50	100	0
TOTAL			**18**						**600**	

Sl. No	Subject Code	Subject of Study	Study Scheme		Examination Scheme		Full Marks	
			Contact Hour/Week		Internal	External		
		Sessional Papers	Lecture	Sessional			Th	Ses
7	S-301	Basic Soil Science Lab.	0	3	25	25	0	50
8	S-302	Surveying & Leveling Lab.	0	4	50	50	0	100
9	S-303	Hydraulics Lab.	0	2	25	25	0	50
10	S-304	Agricultural Process Engineering lab.	0	2	25	25	0	50
11	S-305	Practical of Horticultural Crops Lab.	0	4	50	50	0	100
12	S-306	Engineering Drawing (S) -III	0	4	25	25	0	50
TOTAL				**19**	**---**	**---**		**400**

CURRICULUM STRUCTURE FOR FOURTH SEMESTER OF THE
FULL-TIME DIPLOMA COURSE IN AGRICULTURAL ENGINEERING

Sl. No	Subject Code	Subject of Study	Study Scheme		Examination Scheme				Full Marks	
			Contact Hour/Week		Internal		External			
		Theoretical Papers	Lecture	Sessional	Assessment	Attendance	Objective	Subjective	Th	Ses
1	T-401	Principles of Agronomy	3	0	20	5	25	50	100	0
2	T-402	Soil & Water Conservation	2	0	10	5	10	25	50	0
3	T-403	Dairy & Food Products Technology	3	0	20	5	25	50	100	0
4	T-404	Ground Water, Wells & Pumps	3	0	20	5	25	50	100	
5.	T-405	Soil Mechanics	3	0	20	5	25	50	100	0
6	T-406	PHE of Horticultural crops	3	0	10	5	10	25	50	0
7	T-407	Agricultural Economics & Farm management	3	0	20	5	25	50	100	0
TOTAL			**20**						**600**	

Sl. No	Subject Code	Subject of Study	Study Scheme		Examination Scheme		Full Marks	
			Contact Hour/Week		Internal	External		
		Sessional Papers	Lecture	Sessional			Th	Ses
8	S-401	Principles of Agronomy Lab.	0	4	50	50	0	100
9	S-402	Soil & Water Conservation Lab.	0	3	25	25	0	50
10	S-403	Dairy & Food products Technology Lab.	0	4	50	50	0	100
11	S-404	Ground Water, Wells & Pumps Lab.	0	4	50	50	0	100
12	S-405	Soil Mechanics Lab.	0	3	25	25	0	50
13	S-406	PHE of Horticultural crops Lab.	0	2	25	25	0	50
TOTAL				**20**	**---**	**---**	**0**	**450**

PRACTICAL TRAINING: (Assessment on the basis of report and seminar presentation during 5th Semester)

COURSE NO.	**IN PLANT / FIELD TRAINING- TRAINING OF THREE WEEKS DURATION DURING SUMMER BREAK AT THE END OF 2ND YEAR.**

CURRICULUM STRUCTURE FOR FIFTH SEMESTER OF THE
FULL-TIME DIPLOMA COURSE IN AGRICULTURAL ENGINEERING

Sl. No	Subject Code	Subject of Study	Study Scheme		Examination Scheme				Full Marks	
			Contact Hour/Week		Internal		External			
		Theoretical Papers	Lecture	Sessional	Assessment	Attendance	Objective	Subjective	Th	Ses
1	T-501	Irrigation & Drainage Engineering	3	0	20	5	25	50	100	0
2	T-502	Agricultural Waste Utilization	3	0	20	5	25	50	100	0
3	T-503	Farm Power	4	0	20	5	25	50	100	0
4.	T-504	Seed Processing Technology	3	0	20	5	25	50	100	
5	T-505	Agricultural Structures	3	0	20	5	25	50	100	0
6	T-506	Refrigeration and Air Conditioning	4	0	20	5	25	50	100	0
TOTAL			**20**						**600**	

Sl. No	Subject Code	Subject of Study	Study Scheme		Examination Scheme		Full Marks	
			Contact Hour/Week		Internal	External		
		Sessional Papers	Lecture	Sessional			Th	Ses
7	S-501	Irrigation & Drainage Engineering Lab.	0	4	50	50	0	100
8	S-502	Agricultural Waste Utilization Lab.	0	3	25	25	0	50
9	S-503	Farm Power Lab.	0	4	50	50	0	100
10	S-504	Seed Processing Technology Lab.	0	3	25	25	0	50
11	S-505	Operation and Maintenance of Agricultural Tractors and Machineries Lab.	0	4	50	50	0	100
12	S-506	Seminar & Technical Report Writing	0	3	25	25	0	50
TOTAL				**21**	**---**	**---**		**450**

CURRICULUM STRUCTURE FOR SIXTH SEMESTER OF THE
FULL-TIME DIPLOMA COURSE IN AGRICULTURAL ENGINEERING

Sl. No	Subject Code	Subject of Study	Study Scheme		Examination Scheme				Full Marks	
			Contact Hour/Week		Internal		External			
		Theoretical Papers	Lecture	Sessional	Assessment	Attendance	Objective	Subjective	Th	Ses
1	T-601	Handling, Packaging and Storage of Agricultural Products	3	0	20	5	25	50	100	0
2	T-602	Renewable Energy Sources	3	0	10	5	10	25	50	0
3	T-603	Farm Machinery & Equipments	4	0	20	5	25	50	100	0
4	T-604	Elective – I	4	0	20	5	25	50	100	0
5	T-605	Elective – II	4	0	20	5	25	50	100	0
TOTAL			**18**						**450**	

Sl. No	Subject Code	Subject of Study	Study Scheme		Examination Scheme		Full Marks	
			Contact Hour/Week		Internal	External		
		Sessional Papers	Lecture	Sessional			Th	Ses
6	S-601	Handling, Packaging and Storage of Agricultural Products Lab.	0	3	25	25	0	50
	S-602	Renewable Energy Sources	0	3	25	25	0	50
7	S-603	Farm Machinery & Equipment Lab.	0	3	25	25	0	50
8	S-604	Project work	0	6	50	50	0	100
9	S-605	Seminar on Project	--	1	50	50	0	100
10	S-606	Comprehensive Viva	--	--	--	!00	0	100
TOTAL				**16**	**---**	**---**		**450**

LIST OF ELECTIVES (ANY ONE FROM EACH GROUP)

COURSE – T-604	**SUBJECT**
ELECTIVE – I	A-Watershed Hydrology B-Tea Process Engineering C-Entrepreneurship Development
COURSE –T-605	**SUBJECT**
ELECTIVE – II	A-Farm Power & Machinery Management B-Remote Sensing & GIS C-Low Temperature Preservation of Food Products