



JNAFAU-SCHOOL OF PLANNING AND ARCHITECTURE

NEW SYLLABUS W.E.F FROM ACADEMIC YEAR

CBCS –B.Tech(DTDP)- COURSE STRUCTURE- 2017

SEMESTER-I

S.N O.	Course Code	Course Title	Pre- requisites	Periods per Week				Credits	Marks			End Exam	Remarks
				L	S/F	P/T/O	Total		Int	Ext	Total		
1	DT17B1.1C	Design & Drawing-I	Nil	0	8	0	8	8	100	100	200	J	
2	DT17B1.2C	Climatology for Built Environment	Nil	4	0	0	4	4	50	50	100	W	
3	DT17B1.3C	Materials And Constructions	Nil	4	0	0	4	4	50	50	100	W	
4	DT17B1.4C	C Programming and Data Structures	Nil	1	0	2	3	3	50	50	100	P	Open
5	DT17B1.5C	Statistical Methods	Nil	3	0	0	3	3	50	50	100	W	Open
6	BT17B1.1C	Engineering Mathematics	Nil	4	0	0	4	4	50	50	100	W	Open
7	GN17B1.2A	Environmental studies	Nil	4	0	0	4	2	50	50	100	W	
8	GN17B1.3A	Computer Applications	Nil	0	0	4	4	2	50	50	100	P	
							34	30					

* **Note:** W- Written, P- Practical, J-Jury (all Practical and Jury semester end exams for DTDP will be followed by Viva- Voce or time problem along with viva-voce)



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SEMESTER-II

S.N O.	Course Code	Course Title	Pre- requisites	Periods per Week				Credits	Marks			End Exam	Remarks
				L	S/F	P/T/O	Total		Int	Ext	Total		
1	DT17B2.1C	Design & Drawing-II	DT17B1.1C	0	8	0	8	8	100	100	200	J	
2	DT17B2.2C	Structural Systems	Nil	4	0	0	4	4	50	50	100	W	
3	DT17B2.3C	Applied Physics	Nil	4	0	0	4	4	50	50	100	W	
4	DT17B2.4C	Adv. Data Structures & Algorithms	DT17B1.4C	1	0	2	3	3	50	50	100	P	Open
5	DT17B2.5C	Workshop(IT& Design)	Nil	0	3	0	3	3	50	50	100	J	
6	BT17B2.1C	Mathematical Methods	Nil	4	0	0	4	4	50	50	100	W	Open
7	GN17B2.1A	Communication skills	Nil	4	0	0	4	2	50	50	50	P	
8	GN17B2.2A	Value Education	Nil	2	0	0	2	2	50	Nil	50	NIL	
							32	30					

*****Note: For Professional elective and open elective 4 periods per week and 3 credits is assumed for totaling the period & credit in the semester**



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SEMESTER-III

S.N O.	Course Code	Course Title	Pre-requisites	Periods per Week				Credits	Marks			End Exam	Remarks
				L	S/F	P/T/O	Total		Int	Ext	Total		
1	DT17B3.1C	Building Design	DT17B2.1C	2	6	0	8	8	100	100	200	J	
2	DT17B3.2C	Mathematical Foundation of Computer Science	Nil	4	0	0	4	4	50	50	100	W	Open
3	DT17B3.3C	Unix and Shell Programming	Nil	2	0	2	4	4	50	50	100	P	Open
4	DT17B3.4C	Computer Aided Design and Drafting	Nil	2	0	2	4	4	50	50	100	P	Open
5	DT17B3.5C	Principles of Planning	Nil	2	0	2	4	4	50	50	100	W	
6	DT17B3.xE	Elective-I					4	3	50	50	100		
7	xxxxx	Open Elective-I											
							28	27					

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SEMESTER-IV

S.N O.	Course Code	Course Title	Pre- requisites	Periods per Week				Credits	Marks			End Exam	Remarks
				L	S/F	P/T/O	Total		Int	Ext	Total		
1	DT17B4.1C	Digital Methods in Design	DT17B3.1C	2	6	0	8	8	100	100	200	J	
2	DT17B4.2C	Object Oriented Programming	DT17B2.4C	2	0	2	4	4	50	50	100	P	Open
3	DT17B4.3C	Computer Graphics	DT17B1.4C	2	0	2	4	4	50	50	100	P	Open
4	DT17B4.4C	GIS System(2D&3D)	Nil	2	0	2	4	4	50	50	100	P	Open
5	DT17B4.5C	3D Modeling	Nil	2	0	2	4	4	50	50	100	P	Open
6	DT17B4.xE	Elective-II	Nil				4	3	50	50	100		
7	xxxxx	Open Elective-II	Nil										
							28	27					

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SEMESTER-V

S.NO.	Course Code	Course Title	Pre-requisites	Periods per Week				Credits	Marks			End Exam	Remarks
				L	S/F	P/T/O	Total		Int	Ext	Total		
1	DT17B5.1C	Digital Methods in Planning	DT17B4.1C	1	3	4	8	8	100	100	200	J	
2	DT17B5.2C	Object Oriented Analysis and Design	DT17B4.2C	4	0	0	4	4	50	50	100	W	
3	DT17B5.3C	Web GIS	Nil	1	0	3	4	4	50	50	100	P	Open
4	DT17B5.4C	Web Technologies	Nil	2	0	2	4	4	50	50	100	P	Open
5	DT17B5.5C	Building Services	Nil	4	0	0	4	4	50	50	100	W	
6	DT17B5.xE	Elective-III	Nil				4	3	50	50	100		
7	xxxxx	Open Elective-III	Nil										
							28	27					

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SEMESTER-VI

S.NO.	Course Code	Course Title	Pre-requisites	Periods per Week				Credits	Marks			End Exam	Remarks
				L	S/F	P/T/O	Total		Int	Ext	Total		
1	DT17B6.1C	Energy simulation of Buildings	DT17B5.1C	1	3	4	8	8	100	100	200	J	
2	DT17B6.2C	Database Management Systems	Nil	2	0	2	4	4	50	50	100	P	
3	DT17B6.3C	Image Processing	Nil	1	0	3	4	4	50	50	100	W	
4	DT17B6.4C	Simulation and Modeling	Nil	2	0	2	4	4	50	50	100	P	Open
5	DT17B6.5C	Building Information Modeling	Nil	1	0	3	4	4	50	50	100	P	Open
6	DT17B6.xE	Elective-IV	Nil				4	3	50	50	100		
7	xxxxx	Open Elective-IV	Nil										
							28	27					

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SEMESTER-VII

S.NO.	Course Code	Course Title	Pre-requisites	Periods per Week				Credits	Marks			End Exam	Remarks
				L	S/F	P/T/O	Total		Int	Ext	Total		
1	DT17B7.1C	Mini Project(IT/GIS/DESIGN/ANIMATION)	Nil	2	4	6	12	12	100	100	200	J	
2	DT17B7.2C	Artificial Intelligence	Nil	4	0	0	4	4	50	50	100	W	
3	DT17B7.3C	Software project management	Nil	4	0	0	4	4	50	50	100	W	
4	DT17B7.4C	Building Management Systems	Nil	4	0	0	4	4	50	50	100	W	Open
5	DT17B7.xE	Elective-V	Nil				4	3	50	50	100		
6	DT17B7.xE	Elective-VI	Nil				4	3	50	50	100		
							32	30					

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SEMESTER-VIII

S.NO.	Course Code	Course Title	Pre-requisites	Periods per Week				Credits	Marks			End Exam	Remarks
				L	S/F	P/T/O	Total		Int	Ext	Total		
1	DT17B8.1C	Project (IT/GIS/DESIGN/ANIMATION)	Nil					18	250	250	500	J	
2	DT17B8.2C	Internship (IT/GIS/DESIGN/ANIMATION)	Nil					12	150	150	300	J	
								30	400	400	800		

Note: Internship is as indicated in the academic calendar, but shall be for minimum of 12 weeks.

The detail schedule of Projects and internship will be in the academic calendar.

The general schedule of project and internship is indicated below.

	1 st to 4 th weeks	5 th to 8 th weeks	9 th to 12 th Weeks	13 th to 16 th weeks	17 th to 18 th week
Project	Project review – 1 and 2	Project review – 3	Project review – 4	Project Final review	
Internship	Selecting the firms and confirmation	Internship training period 12 weeks			Internship report Submission



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LIST OF PROFESSIONAL ELECTIVE SUBJECTS

COURSE CODE	COURSE TITLE	EXAM TYPE
DT17B3.1E	Python Programming Language	P
DT17B3.2E	Cyber Laws	W
DT17B3.3E	Digital Graphic Design	P
DT17B4.1E	HCI	W
DT17B4.2E	E-Commerce	W
DT17B4.3E	Digital 2D Studio	P
DT17B5.1E	Management Science	J
DT17B5.2E	Concepts of Interactive and Virtual Worlds	P
DT17B5.3E	Multimedia Production Techniques	P
DT17B6.1E	Geo-informatics in Resource Management	P
DT17B6.2E	Application Programming Interface(coding)	P
DT17B6.3E	Web Designing	P
DT17B7.1E	Advanced Digital Design (Rhino, Lumion and archibus software's)	P
DT17B7.2E	Software Engineering	W
DT17B7.3E	Project Studies	J
DT17B7.4E	Digital Global positioning Systems	P
DT17B7.5E	Statistics & Programming for Geo-data	P
DT17B7.6E	Digital 3D Studio	P
DT17B7.7E	VFX & Compositing	P