



VIGNAN's INSTITUTE OF INFORMATION TECHNOLOGY (AUTONOMOUS)

(Approved by AICTE & Affiliated to JNTUK, Kakinada)

DUVVADA, VISAKHAPATNAM

Department of Civil Engineering

Percentage of Courses where syllabus revision was carried out during the year 20-21

S. NO.	Name of the Program	Regulation	Course Code	Name of the course	Course content removed in VR 19	Course content added in VR 20	Percentage of syllabus content added or replaced
1	UG	VR20	1000201100	Mathematics-I	Nil	chain rule; Laplace transform of periodic function	0.05
2	UG	VR20	1003201100	Engineering Mechanics	Nil	Nil	0
3	UG	VR20	1005201100	Problem Solving and Programming using C	Nil	Nil	0
4	UG	VR20	1000201101	Engineering Physics	Nil	Optical fibre construction; concept of reflection and critical angle; quantum confinement effect	0.1
5	UG	VR20	1000201102	Technical English Communication	Nil	Nil	
6	UG	VR20	1000201110	Technical English Communication Lab		All 5 Units	New Course,100%
7	UG	VR20	1005201110	Problem Solving and Programming using C Lab		All 5 Units	New Course,100%
8	UG	VR20	1000201111	Engineering Physics Lab		All 5 Units	New Course,100%
9	UG	VR20	1000201120	Game, Sports & Yoga	Nil	Nil	0



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10	UG	VR20	1000201200	Engineering Chemistry	Nil	Factors influencing rate of corrosion, Green chemistry, Composites: GFRP & CFRP	0.1
11	UG	VR20	1001201200	Surveying		All 5 Units	New Course,100%
12	UG	VR20	1003201101	Engineering Drawing	Nil	Nil	0
13	UG	VR20	1000201201	Transforms & Vector Calculus	Nil	Multiple integrals: Change of variables (polar, spherical, cylindrical); Vector differentiation: Solenoidal function, Irrotational field	0.1
14	UG	VR20	1000201104	Mathematics-II	Nil	Nature of quadratic form	0.02
15	UG	VR20	1002201210	Basics of Electrical & Electronics Engineering Lab		All 5 Units	New Course,100%
16	UG	VR20	1000201210	Engineering Chemistry Lab			New Course,100%
17	UG	VR20	1001201210	Surveying Lab			New Course,100%
18	UG	VR20	1000201160	Engineering Exploration	Nil	Nil	0
19	UG	VR20	1000201121	Constitution of India			0
20	UG	VR19	1000192100	Complex Variables and			New Course,100%



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				Statistical Methods			
21	UG	VR19	1001192120	Surveying			New Course,100%
22	UG	VR19	1001192100	Building Materials and Construction	Removed Constituent s of a paint, Types of paints, Painting of new/old wood- Varnish. Form Works and Scaffoldings		46 % Changed
23	UG	VR19	1001192121	Strength of Materials			New Course,100%
24	UG	VR19	1001192122	Fluid Mechanics			New Course,100%
25	UG	VR19	1001192101	Building Planning & Drawing			New Course,100%
26	UG	VR19	1001192200	Structural Analysis			New Course,100%
27	UG	VR19	1001192220	Transportation Engineering			New Course,100%
28	UG	VR19	1001192221	Hydraulics and Hydraulic Machinery			3% Changed
29	UG	VR19	1001192222	Environmental Engineering			New Course,100%
30	UG	VR19	1000192130	Environmental Science			New Course,100%
31	UG	VR19	1020192101	Public Administration			New Course,100%
32	UG	VR19	1020192102	.Foreign Linguistic - French			New Course,100%



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33	UG	VR19	1020192100	Employability Readiness Program-I			New Course,100%
34	UG	VR19	1000192110	Communication Skills Lab			New Course,100%
35	UG	VR19	1001192170	Mini Project-I (EPICS/Societal Relevant Project)			New Course,100%
36	UG	VR17	1099172206	Managerial Economics & Financial Analysis			New Course,100%
37	UG	VR17	1001173101	Engineering Geology			No Change
38	UG	VR17	1001173102	Structural Analysis -II			No Change
39	UG	VR17	1001173103	Design of Reinforced Concrete Structures			New Course,100%
40	UG	VR17	1001173104	Transportation Engineering - II			No Change
41	UG	VR17	1001173121	Surveying Field Work-II			New Course,100%
42	UG	VR17	1001173122	Engineering Geology Lab			New Course,100%
43	UG	VR17	1001173123	Transportation Engineering Lab			No Change
44	UG	VR17	1001173201	Design of Steel Structures			New Course,100%
45	UG	VR17	1001173202	Geotechnical Engineering - I			No Change
46	UG	VR17	1001173203	Environmental Engineering - I			No Change
47	UG	VR17	1001173204	Water Resources Engineering -I			No Change
48	UG	VR17	1001173205	Advanced Surveying using GPS			New Course,100%
49	UG	VR17	1001173206	Groundwater development and Management			New Course,100%
50	UG	VR17	1001173207	Waste Water Management			New Course,100%
51	UG	VR17	1001173208	Advanced Concrete Technology			New Course,100%



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52	UG	VR17	1001173209	Traffic Engineering			New Course,100%
53	UG	VR17	1004173209	Electronic Instrumentation			
54	UG	VR17	1005173206	Introduction to Data Base Management Systems			New Course,100%
55	UG	VR17	1003173206	Alternative Energy Sources			No Change
56	UG	VR17	1003173205	Heating, Ventilation and Air Conditioning			No Change
57	UG	VR17	1001173291	Massive Open Online Course (MOOCs)			No Change
58	UG	VR17	1001173221	Geotechnical Engineering Lab			No Change
59	UG	VR17	1001173222	Environmental Engineering Lab			No Change
60	UG	VR17	1001173223	Computer Aided Engineering Lab			No Change
61	UG	VR17	1001174101	Estimation and Contracts			New Course,100%
62	UG	VR17	1001174102	Water Resource Engineering-II			No Change
63	UG	VR17	1001174103	Geotechnical Engineering – II			No Change
64	UG	VR17	1001174104	Environmental Engineering-II			No Change
65	UG	VR17	1001174105	Advanced Structural Engineering			No Change
66	UG	VR17	1001174106	Urban Hydrology			No Change
67	UG	VR17	1001174107	Ground Improvement Techniques			No Change



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	UG	VR17	1001174108	Pavement Analysis and Design			No Change
	UG	VR17	1001174109	Remote Sensing & GIS Applications			No Change
	UG	VR17	1001174110	Industry orientated course			New Course,100%
	UG	VR17	1005172104	Java Programming			New Course,100%
	UG	VR17	1003173201	Finite Element Methods			
	UG	VR17	1004173207	Digital Image Processing			New Course,100%
	UG	VR17	1005172105	Data Structures through C			New Course,100%
	UG	VR17	1099174101	Entrepreneurship Development			New Course,100%
	UG	VR17	1001173241	Industry Oriented Mini Project			New Course,100%
	UG	VR17	1099173101	IPR & Patents			New Course,100%
	UG	VR17	1001174121	GIS & CAD Lab			No Change
	UG	VR17	1001174122	Design & Drawing of Hydraulic Structures			New Course,100%
	UG	VR17	1001174201	Soil Dynamics and Foundations			No Change
	UG	VR17	1001174202	Construction Technology and Management			No Change
	UG	VR17	1001174203	Prestressed Concrete			No Change
	UG	VR17	1001174204	Bridge Engineering			No Change
	UG	VR17	1001174205	Environmental Impact Assessment and Management			New Course,100%
	UG	VR17	1001174206	Solid and Hazardous Waste Management			No Change



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	UG	VR17	1001174207	Water Resources Systems Planning and Management			No Change
	UG	VR17	1001174208	Transportation Planning			New Course,100%
	UG	VR17	1001174281	Internship			New Course,100%
	UG	VR17	1001174251	Technical Seminar			New Course,100%
	UG	VR17	1001174261	Comprehensive Viva			New Course,100%
	UG	VR17	1001174231	Main Project			New Course,100%

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