



Nagarjuna College of Engineering and Technology, Bengaluru.

An Autonomous Institution under VTU, Accredited by NAAC & NBA

DEPARTMENT OF CIVIL ENGINEERING

LIST COURSES FOCUSING ON EMPLOYABILITY FOR AY 2022-23 (UG)

Sl. No.	Course Code	Course Name Employability
1.	21MAT31	Transform Calculus, Fourier Series and Numerical Technique
2.	21CVT32	Strength of Materials
3.	21CVI33	Construction Materials and Technology (IC)
4.	21CVI34	Geodetic Engineering (IC)
5.	21CVL35	Building Planning and Drawing Lab -I
6.	21AEC38A	Building Services
7.	21CPH39	Employability Skill - I
8.	NCMC21M ATDIP31	Additional Mathematics-I
9.	21MAT41	Complex Analysis , Probability and Statistical Inference
10	21CVT42	Structural Analysis
11	21CVI43 Public	Health Engineering (IC)
12	21CVI44	Fluids Mechanics and Machinery (IC)
13	21CVL45	Building Construction and Planning Lab
14	21CVI46	Internship -1
15	21AEC49A	Earth Science in Engineering

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16	20CVM41	Applied Calculus and Probability Distributions
17	20CVT42	Structural Analysis-I
18	20CVT43	Advanced Construction Techniques
19	20CVT44	Irrigation and Hydraulic Structures
20	20CVT45	Geotechnical Engineering
21	20CVT46	Water Supply Engineering
22	20CVL47	Surveying Practice
23	20CVT51	Design and Drawing of RCC Structures
24	20CVT52	Structural Analysis-II
25	20CVT53	Highway Engineering and Construction
26	20CVT54	Construction Quality Management System
27	20CVT55	Foundation Engineering
28	20CVL57	Environmental Engineering Lab
29	20CVH58	Construction Management and Entrepreneurship
30	20CVT61	Design of Steel Structures
31	20CVT62	Estimation and Quantity Surveying
32	20CVT63	Construction planning & Project Management
33	20CVL67	Concrete and Highway Engineering Lab
34	20CVP68	Extensive Survey project
35	20CVPT60	Placement Training
36	20CVT 641	Traffic Engineering and Management
37	20CVT 642	Remote sensing and GIS



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38	20CVT 643	Sub Surface Exploration and Ground Improvement Techniques
39	20CVT 651	Repair and Rehabilitation of Concrete structures
40	20CVT 652	Advanced design of temporary structure
41	20CVT 653	Solid waste Management
42	20CVT 661	Construction joints and water proofing
43	20CVT 662	Construction Safety and industrial policies
44	20CVT 663	Natural Disaster Mitigation and Management
45	19 CVT71	Bridge Engineering
46	19 CVT72	Pre Stressed Concrete Structures
47	19 CVL76	Geotechnical Engineering Lab
48	19 CVL77	Software Application Lab
49	19CVP78	Project Phase -I
50	19 CVT 731	Railways, Harbour, Airport and Tunnel Engineering
51	19 CVT 732	Advanced Concrete Technology
52	19 CVT 733	Energy efficient and Green Buildings
53	19CVT 741	Analysis and Design of Tall Structures
54	19 CVT 742	Computational Structural Mechanics
55	19 CVT 743	Advanced Design of Steel Structures
56	19 CVT751	Alternative Building Materials And Technologies
57	19 CVT 752	Industrial wastewater treatment
58	19 CVT 753	Rural water supply and sanitation
59	19CVP81	Internship
60	19CVP82	Project Phase-II
61	19CVP83	Project Phase-III



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62	19CVP84	Project Evaluation and Viva voce (External)	
63	19CVP85	Technical Seminar	
Total			63
Percentage			90%

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DEPARTMENT OF CIVIL ENGINEERING

LIST COURSES FOCUSING ON ENTREPRENEURSHIP FOR
AY 2022-23 (UG)

Sl. No.	Course Code	Course Name
1.	20CVT54	Construction Quality Management System
2.	20CVH58	Construction Management and Entrepreneurship
3.	20CVT63	Construction planning & Project Management
Total		3
Percentage		5%



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DEPARTMENT OF CIVIL ENGINEERING

LIST COURSES FOCUSING ON SKILL DEVELOPMENT

FOR AY 2022-23 (UG)

Sl. No.	Course Code	Course Name
1.	21UHV36	Social Connect & Responsibility
2.	21CPC37	Constitution of India, Professional Ethics and Cyber Law
3.	21CPH39	Employability Skill - I
4.	21NS83	National Service Scheme (NSS)
5.	21PE83	Physical Education(PE) (Sports and Athletics)
6.	21YO83	Yoga
7.	NCMC21/MATDIP31	Additional Mathematics-I
8.	20CVH59	Environmental Studies
9.	20CVP68	Extensive Survey project
10.	20CVPT60	Placement Training
11.	19CVP78	Project Phase -I
12.	19CVP81	Internship
13.	19CVP82	Project Phase-II
14.	19CVP83	Project Phase-III
15.	19CVP84	Project Evaluation and Viva voce (External)
16.	19CVP85	Technical Seminar
Total		16
Percentage		23%

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DEPARTMENT OF CIVIL ENGINEERING

LIST COURSES FOCUSING ON EMPLOYABILITY FOR AY 2022-23 (PG - CSE)

Sl. No.	Course Code	Course Name Employability
1.	22CSE11	Statistics and Optimization Techniques
2.	22CSE12	Advanced Design of RC Structures
3.	22CSE13	Computational Structural Mechanics
4.	22CSE14	Structural Dynamics
5.	22CSE15	Mechanics of Deformable Bodies
6.	22CSEL17	Structural Engineering Lab-I
7.	22AUD/ AEC 18	BOS recommended course (Any NPTEL/SWAYAM)
8.	22CSE21	Earthquake Resistance Design of Structures
9.	22CSE22	Finite Element Analysis
10.	22CSE26	Structural Engineering Lab-II
11.	22AUD/AEC 27	BOS recommended course (Any NPTEL/SWAYAM)
12.	22CSE231	Advanced Design of Pre-stressed Concrete Structures
13.	22CSE232	Design of Bridges
14.	22CSE233	Advanced Structural Analysis
15.	22CSE241	Design of Tall Structures

16	22CSE242	Reliability Analysis of Structures
17	22CSE243	Advanced Design of Steel Structures
18	21CSE31	Design of Substructures
19	21CSE34	Dissertation - Phase I
20	21CSE36	Internship
21	21CSE321	Design of Plates and Shells
22	21CSE322	Design of Precast and Prefabricated Structures
23	21CSE323	Stability of Structures
24	21CSE331	Design of Steel - Concrete Composite Structures
25	21CSE332	Construction Techniques and Management
26	21CSE333	Structural Health Monitoring
27	21CSE334	Formwork Design of Structures
28	21CSE41	Dissertation - phase II
29	21CSE42	Dissertation - phase III
30	21CSE43	Dissertation Evaluation
31	21CSE44	Viva Voce (Project)
Total		31
Percentage		92%

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DEPARTMENT OF CIVIL ENGINEERING

LIST COURSES FOCUSING ON EMPLOYABILITY FOR AY
2022-23 (PG - CCT)

Sl. No.	Course Code	Course Name Employability
1.	22CCT11	Statistics and Optimization Techniques
2.	22CCT12	Sustainable Construction Materials & Energy Efficient Building
3.	22CCT13	Construction Quality and Safety
4.	22CCT14	Construction Project Management
5.	22CCT15	Mechanization in Construction
6.	22CCTL17	Material Testing Laboratory
7.	22AUD/AEC18	BOS recommended course (Any NPTEL/SWAYAM)
8.	22CCT21	Construction Economics and Finance
9.	22CCT22	Advanced Design RCC
10.	22CCT26	Project Management lab
11.	22AUD/AEC 27	BOS recommended course (Any NPTEL/SWAYAM)
12.	22CCT231	Pre Engineered Construction Technology
13.	22CCT232	Design Concepts of Substructures
14.	22CCT233	Infrastructure Planning

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15	22CCT241	Soil Exploration and Ground Improvement Techniques
16	22CCT242	Building Cost and Quality Management
17	22CCT243	Building Services and Maintenance
18	21CCT31	Sustainable Construction
19	21CCT34	Dissertation-Phase I
20	21CCT35	Mini project
21	21CCT36	Internship
22	21CCT37	Technical Seminar-II
23	21CCT321	Automation in Construction Industry
24	21CCT322	Pavement Design and Construction
25	21CCT323	Earthquake Engineering
26	21CCT331	Construction and Demolition Waste Management
27	21CCT332	Structural Masonry
28	21CCT333	Formwork Design of Structures
29	21CCT41	Dissertation -Phase II
30	21CCT42	Dissertation -Phase III
31	21CCT43	Dissertation Evaluation
32	21CCT44	Viva Voce (Project)
Total		32
Percentage		95%

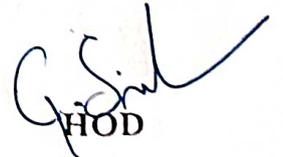
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AY 2022-23 (PG - CSE)

Sl. No.	Course Code	Course Name
1.	21CSE332	Construction Techniques and Management
Total		1
Percentage		3%


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AY 2022-23 (PG - CCT)

Sl. No.	Course Code	Course Name
2.	22CCT14	Construction Project Management
3.	22CCT21	Construction Economics and Finance
4.	22CCT242	Building Cost and Quality Management
5.	22CCT243	Building Services and Maintenance
6.	21CCT331	Construction and Demolition Waste Management
Total		6
Percentage		18%


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FOR AY 2022-23 (PG - CSE)

Sl. No.	Course Code	Course Name
1.	22CSE16	Research Methodology & IPR
2.	22AUD/AEC18	BOS recommended course (Any NPTEL/SWAYAM)
3.	22CSE25	Mini Project with Seminar
4.	22AUD/AEC27	BOS recommended course (Any NPTEL/SWAYAM)
5.	21CSE34	Dissertation - Phase I
6.	21CSE35	Mini project
7.	21CSE36	Internship
8.	21CSE37	Technical Seminar-II
9.	21 CSE 41	Dissertation -Phase II
10.	21 CSE 42	Dissertation -Phase III
11.	21 CSE 43	Dissertation Evaluation
12.	21 CSE 44	Viva Voce (Project)
Total		12
Percentage		36%

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LIST COURSES FOCUSING ON SKILL DEVELOPMENT
FOR AY 2022-23 (PG - CCT)

Sl. No.	Course Code	Course Name*
1.	22CCT16	Research Methodology & IPR
2.	22AUD/AEC18	BOS recommended course (Any NPTEL/SWAYAM)
3.	22CCT25	Mini Project with Seminar
4.	22AUD/AEC27	BOS recommended course (Any NPTEL/SWAYAM)
5.	21 CCT 34	Dissertation - Phase I
6.	21 CCT 35	Mini project
7.	21 CCT 36	Internship
8.	21 CCT 37	Technical Seminar-II
9.	21CCT41	Dissertation -Phase II
10.	21CCT42	Dissertation -Phase III
11.	21CCT43	Dissertation Evaluation
12.	21CCT44	Viva Voce (Project)
Total		12
Percentage		36%

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