

**1.2.1(1) \_CE\_ List Of New Courses Program Wise  
(2017-18 to 2021-22)**

REPORT ON EXTRACT OF SYLLABUS CHANGE (2017-18 TO 2021-22)

**DEPARTMENT OF CIVIL ENGINEERING**

% Change in syllabus in Civil Engineering Department				
S. No	Course code	Name of the Course	Remarks	% of Syllabus content modified
1	19AHS9902	Communicative English-I Lab		30
2	19AES0503	Problem solving and programming Lab	New course	100
3	19AES0504	Data Structures Lab	New course	100
4	19APC0106	Surveying Lab		40
5	19AES0510	Basics of Python Programming Lab	New course	100
6	19APC0115	Building Planning and Drawing	New course	100
7	19APC0118	Computer-aided Civil Engineering Drawing Lab	New course	100
8	19APC0123	Remote Sensing and GIS Lab		20
9	19DMC9901	English for Research Paper Writing	New course	100
10	19DPC0103	Structural Design Lab-I		40
11	19DPC2007	Structural Design Lab-II		40
12	19DML0101	Research Methodology and IPR	New course	100
13	19ABS9903	Engineering Physics		30
14	19ABS9908	Engineering Physics Lab		30
15	19ABS9901	Algebra and calculus	New course	100
16	19AHS9901	Communicative English-I		30
17	19AES0501	Problem solving and programming	New course	100
18	19ABS9906	Differential Equations and Vector Calculus	New course	100
19	19AES0202	Basics of Electrical and Electronics Engineering-I		20
20	19ABS9905	Engineering Chemistry		20
21	19ABS9910	Engineering Chemistry Lab		20
22	19AES0502	Data Structures	New course	100
23	19ALC0101	Civil Engineering Workshop	New course	100
24	19ABS9913	Probability & Statistics, PDE and Complex Variables	New course	100
25	19AHS9903	Communicative English II		40
26	19APC0101	Mechanics of Materials	New course	100
27	19AMC9901	Biology for Engineers	New course	100
28	19APC0102	Surveying		20
29	19ABS9915	Transform Techniques and Numerical Methods		20
30	19AES0509	Basics of Python Programming	New course	100
31	19AMC9903	Environmental Studies		20
32	19AOE0401	Sensor Networks	New course	100
33	19APR0101	Socially Relevant Project (15 Hrs/Sem)	New course	100
34	19APC0121	Remote Sensing and GIS		20
35	19AMC9902	Constitution of India	New course	100
36	20APC0117	Building Technology	New course	100
37	19DPC0102	Advanced Solid Mechanics		

38	19DPE0102	Advanced Concrete Materials and Technology		20
39	19DPE0105	Energy Efficient Buildings	New course	100
40	19DPC2005	FEM in Structural Engineering		40
41	19DPE2010	Design of Pre-stressed Concrete Structures		20
42	19DMC9904	Constitution of India	New course	100
43	19DPE2015	Design of Industrial Structures	New course	100
44	19DOE2002	Project Management	New course	100
45	20APC0115	Land surveying and 2D drafting	New course	100
46	20ABS9922	Mathematical Modeling & Optimization Techniques	New course	100
47	20AHS9905	Universal Human Values	New course	100
		<b>Total no. of subjects in JNTUA syllabus</b>	<b>76</b>	
		<b>No.of subjects with <math>\geq 20\%</math> change in AK19 syllabus</b>	<b>47</b>	
		<b>% of subjects with change in contents</b>	<b>60%</b>	

### List Of New Courses - UG CIVIL ENGINEERING

Engineering Physics	19ABS9903
Engineering Physics Lab	19ABS9908
Algebra and calculus	19ABS9901
Communicative English-I	19AHS9901
Communicative English-I Lab	19AHS9902
Problem solving and programming	19AES0501
Problem solving and programming Lab	19AES0503
Differential Equations and Vector Calculus	19ABS9906
Basics of Electrical and Electronics Engineering-I	19AES0202
Engineering Chemistry	19ABS9905
Engineering Chemistry Lab	19ABS9910
Data Structures	19AES0502
Data Structures Lab	19AES0504
Basics of Electrical and Electronics Engineering -I Lab	19AES0204
Civil Engineering Workshop	19ALC0101
Probability & Statistics, PDE and Complex Variables	19ABS9913
Communicative English II	19AHS9903
Mechanics of Materials	19APC0101
Biology for Engineers	19AMC9901
Surveying	19APC0102
Surveying Lab	19APC0106
Transform Techniques and Numerical Methods	19ABS9915
Basics of Python Programming	19AES0509
Basics of Python Programming Lab	19AES0510
Environmental Studies	19AMC9903
Socially Relevant Project (15 Hrs/Sem)	19APR0101
Building Planning and Drawing	19APC0115
Sensor Networks	19AOE0401
Computer-aided Civil Engineering Drawing Lab	19APC0118

Remote Sensing and GIS	19APC0121
Remote Sensing and GIS Lab	19APC0123
Constitution of India	19AMC9902
Mathematical Modeling & Optimization Techniques	20ABS9922
Universal Human Values	20AHS9905
Land surveying and 2D drafting	20APC0115
Building Technology	20APC0117

LIST OF NEW COURSES - PG STRUCTURAL ENGINEERING

Advanced Solid Mechanics	19DPC0102
Advanced Concrete Materials and Technology	19DPE0102
Energy Efficient Buildings	19DPE0105
English for Research Paper Writing	19DMC9901
Structural Design Lab-I	19DPC0103
FEM in Structural Engineering	19DPC2005
Design of Pre-stressed Concrete Structures	19DPE2010
Constitution of India	19DMC9904
Structural Design Lab-II	19DPC2007
Design of Industrial Structures	19DPE2015
Project Management	19DOE2002
Research Methodology and IPR	19DML0101