



# PRESIDENCY UNIVERSITY

(Private University Estd. in Karnataka State by Act No.41 of 2013)

## DEPARTMENT OF CIVIL ENGINEERING

### Feedback from M.Tech Students and action taken report

Sl. No.	Feedback	Action Taken
1	Introduce information related to current Industry requirements and practices in classes. Introduce more content related to real life application.	Every semester Guest lectures, Invited talks and workshops are being organized to expose students and faculty to latest developments in the industry. Students as well as faculty are supported and encouraged to participate in National and International conferences, workshops Industry expos and symposium

### Feedback from Faculty Members on M.Tech program and action taken report

Sl. No.	Feedback	Action Taken
1	More skill-based courses must be introduced to increase the employability of the students as well as to extract the full potential of faculty. We can focus on the current application in the industry and try to focus on those topics more in class rather than following the traditional approach for example we can use simple tools such R, Microsoft excel, simple programs, analysis software as replacement of manual solving. It might interest the students and help them to get better placement.	6 Value added courses are being offered to increase the skill of students. Faculty are being encouraged to give assignments based on programming as well as problem solving based on use of other tools like excel and R.

### Feedback from Employer on M.Tech students and action taken report

Sl. No.	Feedback	Action Taken
1	Practical sessions to be implemented with theory knowledge	Theory Courses are being revised into lab integrated theory courses to give practical sessions along with theory knowledge



2	Provide more site visits	To enable experiential learning and provide more site visits, courses are being designed to incorporate at least one site visit relevant to the course and students are being given an assessment activity based on the site visit as well.
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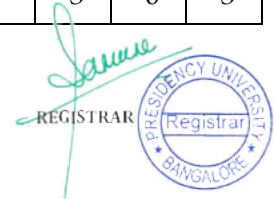
### Feedback from Alumni and action taken report

Sl. No.	Feedback	Action Taken
1	General construction related topics could help in field.	Courses on Construction Technology and Process, Construction Equipment and Machinery as well as a Course on Concept of Building services are introduced.
2	Learning about more Industry relevant skills/ Software	Lab Integrated Theory courses are being offered in Building Information Modelling, Construction Projection Management, Remote Sensing and GIS, Computer Aided Analysis and Detailing; Earthquake resistant Design of Structures have been introduced where relevant software is being taught to students.
3	In terms of Survey our curriculum was needs to be updated to include latest methods of surveying.	The syllabus has been updated to include a module on Drone surveying (PPK Based) as well as experiments on Total Station in place of theodolite and tacheometer based surveying exercise.

Pursuant to feedback received from stakeholders, new courses have been added to curriculum as shown in Annexure 12.6.1 and revised courses are shown in Annexure 12.6.2

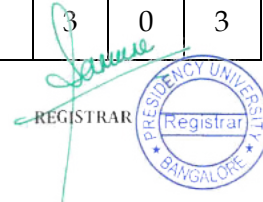
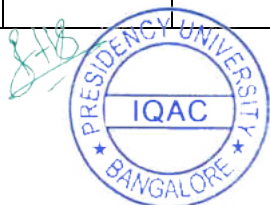
### Annexure 12.6.1 - List of New Courses

NEWLY PROPOSED COURSES FOR B.TECH (CIVIL ENGINEERING)					
S. No.	COURSE CODE	COURSE NAME	L	P	C
1	CIV 2013	Analysis of Determinate Structures	4	0	4
2	CIV 3002	Analysis of Indeterminate Structures	4	0	4
3	CIV 2001	Sustainability Concepts in Engineering	3	0	3
4	CIV 2004	Integrated Project Management	3	0	3



NEWLY PROPOSED COURSES FOR B.TECH (CIVIL ENGINEERING)					
S. No.	COURSE CODE	COURSE NAME	L	P	C
5	CIV 2044	Geospatial Applications for Engineers	2	2	3
6	CIV 3045	Big Data Analytics for Civil Engineers	3	0	3
7	CIV 3032	Design of Hydraulic Structures	3	0	3
8	CIV 2022	Railway Engineering and Tunnelling	3	0	3
9	CIV 2023	Airport Engineering and Harbour	3	0	3
10	CIV 3025	Environmental Geotechnics	3	0	3
11	CIV 3005	Computer Aided Analysis & Detailing Lab	0	2	1
12	CIV 2012	Building Information Modelling	1	4	3
13	CIV 1004	Basic Construction Practice	0	2	1
14	CIV 1003	Elements of Engineering Mechanics	3	0	3
15	CIV 2016	Transportation Engineering	3	0	3
16	CIV 2046	Construction Technology and Processes	3	0	3
17	CIV 1007	Building Planning and Drawing	0	2	1
18	CIV 1001	Disaster management and mitigation	3	0	3
19	CIV 2041	Fundamentals of Smart City	3	0	3
20	CIV 3047	Fundamentals of Pre-stressed Concrete Structures	3	0	3
21	CIV 2011	Environmental Engineering	2	2	3
22	CIV 2010	Hydrology and Irrigation Systems	3	0	3

NEW COURSES FOR M.TECH (BUILDING CONSTRUCTION TECHNOLOGY)					
S. No.	COURSE CODE	COURSE NAME	L	P	C
1	CIV 363	Applications of Remote Sensing and GIS in Construction	3	0	3
2	CIV 307	Elements of Prestressed Concrete Structures	3	0	3
3	CIV 6004	Retrofitting and Repair Techniques	3	0	3
4	CIV 6005	Formwork and Scaffolding Design	3	0	3
5	CIV 5010	Building Automation and 3D Printing	3	0	3



6	CIV 6007	Seismic analysis and Design of Buildings	3	0	3
7	CIV 5001	Sustainable Smart Cities	3	0	3
8	CIV 5002	Systems Design for Sustainability	3	0	3
9	PIP 6001	Dissertation/ Internship - I	-	-	10
10	PIP 6002	Dissertation/ Internship - II	-	-	14
11	CIV 6002	Building Services and Building Information Modelling	2	2	3
12	URE 6001	Research Experience	-	-	3

### 12.6.2 - List of Revised Courses

<b>REVISED COURSES FOR B.TECH (CIVIL ENGINEERING)</b>					
S. No.	COURSE CODE	COURSE NAME	L	P	C
1	CIV 201	Strength of Materials	4	0	4
2	CIV 202	Surveying	4	0	4
3	CIV 203	Engineering Geology	3	0	3
4	CIV 208	Fluid Mechanics	4	0	4
5	CIV 219	Building Materials and Concrete Technology	3	0	3
6	CIV 252	Surveying Practice	0	2	1
7	CIV 210	Geotechnical Engineering	4	0	4
8	CIV 253	Engineering Geology Lab	0	2	1
9	CIV 254	Fluid Mechanics Lab	0	2	1
10	CIV 211	Design of RC Structural Elements	4	0	4
11	CIV 213	Design of Structural Steel Elements	4	0	4
12	CIV 215	Estimating, Costing and Valuation	4	0	4



13	CIV 381	Construction Project Management	3	0	3
14	CIV 384	Occupational Health and Safety	3	0	3

REVISED COURSES FOR M.TECH (BUILDING CONSTRUCTION TECHNOLOGY)					
S. No.		COURSE NAME	L	P	C
1	CIV 351	Advanced Construction Materials and Technology	4	0	4
2	CIV 352	Quality, Risk and Safety in Construction	4	0	4
3	CIV 353	Construction Planning, Schedule and Control	4	0	4
4	CIV 354	Mechanization in Construction	3	0	3
5	CIV 511	Material Characterization Lab	0	2	1
6	CIV 355	Construction Economics and Contract Specifications	3	1	4
7	CIV 357	Advanced Design of RC Structures	3	1	4
8	CIV 358	Construction Demolition and Waste Management	4	0	4
9	CIV363	Applications of Remote Sensing and GIS in Construction	2	2	3

The syllabus of the new courses and revised courses as approved by the Board of Studies is included in the relevant PRCs

