

Rama University Uttar Pradesh, Kanpur

Ref:RU/FET/CED/BOS/2019

Dated: 27/05/2019

Faculty of Engineering & Technology
Department of Civil Engineering
Minutes of Meeting
Boards of Studies

A meeting of Boards of Studies of Civil Engineering, FET was held on **25/05/2019** (Saturday) at 2:30 PM. in conference room of FET. The following members were present:

- | | |
|-------------------------|-------------------|
| 6. Mr.Satish Parihar | - Chairperson |
| 7. Mr. Satyaveer Singh | - Member |
| 8. Dr.Vinod Kumar Yadav | - Member |
| 9. Prof. Pradeep Kumar | - External Member |
| 10. Dr.Santosh Kumar | - External Member |

Agenda:

1. Action Taken Report (ATR) on Minutes of Previous Meeting.

The BOS committee reviewed and confirmed the minutes of the BOS meeting held on 25/05/2018.

2. To consider and approve new Evaluation Scheme and Syllabus.

S. No.	Item No.	Existing	Recommendation /Action Taken
1	To consider and approve the proposed introduction of CBCS based curriculum along with its Evaluation Scheme and Syllabus concurrence with Model Curriculum released by AICTE for B.Tech. students to be admitted in the Academic Session 2019-20	The existing Evaluation Scheme and Syllabus was reviewed along with Model Curriculum released by AICTE for B.Tech. students	The BOS considered suggestions for the Evaluation Scheme and Syllabus and thereafter discussion, recommended the same for final approval

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S. No.	Item No.	Existing		Recommendation /Action Taken
2	To consider and approve the changes in Evaluation Scheme and Syllabus for M.Tech. (Civil with Specialization in Transportation Engineering) students to be admitted in the session 2019-20	The Subject code and Syllabus of the following from the existing Evaluation Scheme and Syllabus as		The BOS considered changes in the Evaluation Scheme and Syllabus and thereafter discussion, recommended such changes in Evaluation Scheme and Syllabus
		Existing	Proposed	
		Semester I (Core Subject) :		
		MAS-101- Advanced Mathematics and Numerical Analysis	MCE-110- Low Cost Roads	
		Semester III (Departmental Elective):		
MCE-313- Low Cost Roads	MAS-301- Advanced Mathematics and Numerical Analysis			
3	To consider and approve the changes in Evaluation Scheme and Syllabus for M.Tech. (Civil with Specialization in Structural Engineering) and M.Tech. (Civil with Specialization in Construction Technology & Management) students to be admitted in the session 2019-20	The Subject code and Syllabus of the following from the existing Evaluation Scheme and Syllabus as		The BOS considered changes in the Evaluation Scheme and Syllabus and thereafter discussion, recommended such changes in Evaluation Scheme and Syllabus
		Existing	Proposed	
		Semester I (Core Subject) :		
		MAS-101- Advanced Mathematics and Numerical Analysis	MCE-101- Design of Earthquake Resistant Structures	
		Semester III (Departmental Elective):		
MCE-304- Design of Earthquake Resistant Structures	MAS-301- Advanced Mathematics and Numerical Analysis			

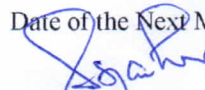
3. To consider the proposed introduction of new Short term Courses and CBCS based M.Tech.(Full Time & Part Time) along with their Evaluation Scheme and Syllabus

The board approved the review committee for considering the **proposed introduction of the proposed introduction of new Short term Courses and CBCS based M.Tech.(Full Time & Part Time) along with its Evaluation Scheme and Syllabus**

A committee under the chairmanship of Mr. Vikalp Saxena, who has been authorized to select two more Internal members , was constituted in this connection.

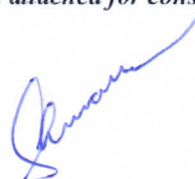
The meeting concluded with a vote of thanks to the chair.

Date of the Next Meeting: to be decided and intimated thereafter

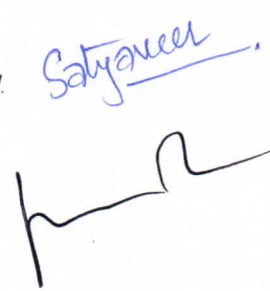

(Chairman)

Encl.: Recommended Curricula attached for consideration and approval.

CC:
1. Dean, FET
2. Registrar Office






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COURSE STRUCTURE

M. TECH.

CIVIL ENGINEERING

(STRUCTURAL ENGINEERING)

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SEMESTER-I (FIRST YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MAS-101	Advanced Mathematics and Numerical Analysis	3	1	0	30	20	100	150	4
2	MCE-102	Advanced Strength of Material and Theory of Elasticity	3	1	0	30	20	100	150	4
3	MCE-103	Advanced Structural Analysis	3	1	0	30	20	100	150	4
4	MCE-104	Pre-stressed Concrete Design	3	1	0	30	20	100	150	4
LABORATORIES										
6	MCE-153	Advanced Concrete Lab	0	0	4	20	0	30	50	2
7	MCE-154	CAD Lab	0	0	4	20	0	30	50	2
TOTAL			12	4	8	160	80	460	700	20

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SEMESTER-II (FIRST YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-201	Structural Dynamics	3	1	0	30	20	100	150	4
2	MCE-202	Finite Element Method in Structural Engineering	3	1	0	30	20	100	150	4
3	MCE-203	Theory of Plates and Shells	3	1	0	30	20	100	150	4
4	MCE-204- MCE-208	Departmental Elective-I	3	1	0	30	20	100	150	4
LABORATORIES										
8	MCE-251	Computational Lab	0	0	4	10	10	30	50	2
9	MCE-252	Structural Engineering Lab	0	0	4	10	10	30	50	2
			12	4	8	160	80	460	700	20

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SEMESTER-III (SECOND YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-301- MCE-304	Departmental Elective-II	3	1	0	30	20	100	150	4
2	MCE-305- MCE-308	Departmental Elective-III	3	1	0	30	20	100	150	4
LABORATORIES										
3	MCE-351	Dissertation-I	0	0	16	200	0	300	500	12
			6	2	16	260	40	500	800	20

SEMESTER-IV (SECOND YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-401	Dissertation-II	0	0	24	200	0	600	800	20
TOTAL			0	0	24	200	0	600	800	20

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DEPARTMENT OF CIVIL ENGINEERING, Faculty of Engineering and Technology



DEPARTMENTAL PROGRAM ELECTIVE-I

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-204	Advance Concrete Technology	3	1	0	0	20	20	60	100	4	3	
2	MCE-205	Ground Improvement Techniques	3	1	0	0	20	20	60	100	4	3	
3	MCE-206	Matrix Method of Analysis	3	1	0	0	20	20	60	100	4	3	
4	MCE-207	Advance Concrete Design	3	1	0	0	20	20	60	100	4	3	

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DEPARTMENTAL ELECTIVE-II

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-301	Computer Aided Design	3	1	0	0	20	20	60	100	4	3	
2	MCE-302	Advanced Foundation Engineering	3	1	0	0	20	20	60	100	4	3	
3	MCE-303	Advanced Design of Steel Structures	3	1	0	0	20	20	60	100	4	3	
4	MCE-304	Design of Earthquake Resistant Structures	3	1	0	0	20	20	60	100	4	3	

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DEPARTMENTAL ELECTIVE-III

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-305	Stability Theories in Structural Engineering	3	1	0	0	20	20	60	100	4	3	
2	MCE-306	Design of Tall Structures	3	1	0	0	20	20	60	100	4	3	
3	MCE-307	Design of Offshore Structures	3	1	0	0	20	20	60	100	4	3	
4	MCE-308	Reliability Based Civil Engineering Design	3	1	0	0	20	20	60	100	4	3	

L-Lecture, T-Tutorial, P- Practical, CA- Continuous Assessment, MTE-Mid Term Examination, ETE-End Term Examination

Evaluation Scheme:

Course with theory components only

For Continuous Assessment (CA) is such as: 30 Marks

- a) Attendance : 10 Marks
- b) Assignments: 10 Marks
- c) Class Tests : 10 Marks

MTE - Mid Term Examination: 20 Marks

ETE - End Term Examination: 100 Marks

Course with practical components only

For Continuous Assessment (CA) is such as: 20 Marks

- a) Attendance : 10 Marks
- b) Performance : 10 Marks
- c) Practical File : 10 Marks

ETE - End Term Examination: 50 Marks



COURSE STRUCTURE

M. TECH.

CIVIL ENGINEERING

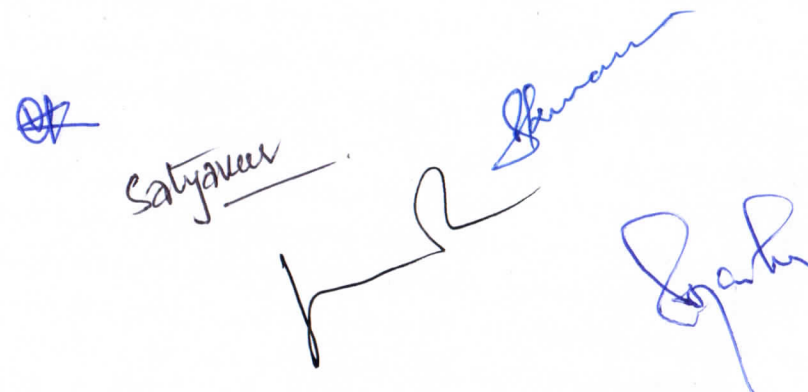
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SEMESTER-I (FIRST YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-101	Design of Earthquake Resistant Structures	3	1	0	30	20	100	150	4
2	MCE-104	Pre-stressed Concrete Design	3	1	0	30	20	100	150	4
3	MCE-105	Construction Materials	3	1	0	30	20	100	150	4
4	MCE-106	Construction Costing & Management	3	1	0	30	20	100	150	4
LABORATORIES										
6	CMCE-151	Advanced Concrete Lab	0	0	4	20	0	30	50	2
7	CMCE-152	CAD Lab	0	0	4	20	0	30	50	2
TOTAL			12	4	8	140	180	500	700	23





SEMESTER-II (FIRST YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-204- MCE-207	Departmental Elective-I	3	1	0	30	20	100	150	4
2	MCE-208	Construction Equipments	3	1	0	30	20	100	150	4
3	MCE-209	Advanced Construction Techniques	3	1	0	30	20	100	150	4
4	MCE-210	Pavement Design, Construction and Maintenance	3	1	0	30	20	100	150	4
LABORATORIES										
5	CMCE-153	Computational lab	0	0	4	10	10	30	50	2
6	CMCE-154	Structural Engineering Lab	0	0	4	10	10	30	50	2
TOTAL			12	4	8	140	180	500	700	20

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SEMESTER-III (SECOND YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-301- MCE-304	Departmental Elective-II	3	1	0	30	20	100	150	4
2	MCE-309- MCE-312	Departmental Elective-IV	3	1	0	30	20	100	150	4
LABORATORIES										
3	MCE-351	Dissertation-I	0	0	16	200	0	300	500	12
TOTAL			6	2	16	260	40	500	800	20

SEMESTER-IV (SECOND YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-401	Dissertation-II	0	0	24	200	0	600	800	20
TOTAL			0	0	24	200	0	600	800	20

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DEPARTMENT OF CIVIL ENGINEERING, Faculty of Engineering and Technology



DEPARTMENTAL ELECTIVE-I



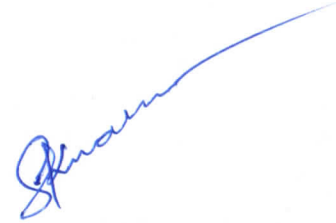

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-204	Advance Concrete Technology	3	1	0	0	20	20	60	100	4	3	
2	MCE-205	Ground Improvement Techniques	3	1	0	0	20	20	60	100	4	3	
3	MCE-206	Matrix Method of Analysis	3	1	0	0	20	20	60	100	4	3	
4	MCE-207	Advance Concrete Design	3	1	0	0	20	20	60	100	4	3	

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DEPARTMENTAL ELECTIVE-II

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-301	Computer Aided Design	3	1	0	0	20	20	60	100	4	3	
2	MCE-302	Advanced Foundation Engineering	3	1	0	0	20	20	60	100	4	3	
3	MCE-303	Advanced Design of Steel Structures	3	1	0	0	20	20	60	100	4	3	
4	MCE-304	Advanced Mathematics and Numerical Analysis	3	1	0	0	20	20	60	100	4	3	

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DEPARTMENTAL ELECTIVE-IV

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-309	Repairs, Rehabilitation & Retrofitting of Structures	3	1	0	0	20	20	60	100	4	3	
2	MCE-310	Rural Construction Technology	3	1	0	0	20	20	60	100	4	3	
3	MCE-311	Environmental Engineering & Management	3	1	0	0	20	20	60	100	4	3	
4	MCE-312	Green Building & Services	3	1	0	0	20	20	60	100	4	3	

L-Lecture, T-Tutorial, P- Practical, CA- Continuous Assessment, MTE-Mid Term Examination, ETE-End Term Examination

Evaluation Scheme:

Course with theory components only

For Continuous Assessment (CA) is such as: 30 Marks

- a) Attendance : 10 Marks
- b) Assignments: 10 Marks
- c) Class Tests : 10 Marks

MTE - Mid Term Examination: 20 Marks

ETE - End Term Examination: 100 Marks

Course with practical components only

For Continuous Assessment (CA) is such as: 20 Marks

- a) Attendance : 10 Marks
- b) Performance : 10 Marks
- c) Practical File : 10 Marks

ETE - End Term Examination: 50 Marks



COURSE STRUCTURE

M. TECH.

CIVIL ENGINEERING

(TRANSPORTATION ENGINEERING)

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SEMESTER-I (FIRST YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
	MCE-107	Highway Material & Testing	3	1	0	30	20	100	150	4
2	MCE-108	Transportation Planning	3	1	0	30	20	100	150	4
3	MCE-109	Highway Geometric Design	3	1	0	30	20	100	150	4
4	MCE-110	Low Cost Roads	3	1	0	30	20	100	150	4
LABORATORIES										MC
6	MCE-109	Highway Geometric Design	0	0	4	20	0	30	50	2
7	MCE-154	CAD Lab	0	0	4	20	0	30	50	2
TOTAL			12	4	8	160	80	460	700	20

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SEMESTER-II (FIRST YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-204 & MCE-211-MCE-213	Departmental Elective-V	3	1	0	30	20	100	150	4
2	MCE-210	Pavement Design Construction & Maintenance	3	1	0	30	20	100	150	4
3	MCE-214	Highway Equipments & Machinery	3	1	0	30	20	100	150	4
4	MCE-215	Traffic Engineering & Field Studies	3	1	0	30	20	100	150	4
LABORATORIES										
8	MCE-251	Computational Lab	0	0	4	20	0	30	50	2
9	MCE-253	Advance Highway Laboratory	0	0	4	20	0	30	50	2
TOTAL			12	4	8	160	80	460	700	20

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SEMESTER-III (SECOND YEAR)

S. NO.	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
			L	T	P	CA	MTE	ETE		
1	MCE-304 & MCE-314-MCE-316	Departmental Elective-VI	3	1	0	30	20	100	150	4
2	MCE-317-MCE-320	Departmental Elective-VII	3	1	0	30	20	100	150	4
LABORATORIES										
3	MCE-351	Dissertation-I	0	0	16	200	0	300	500	12
TOTAL			6	2	16	260	40	500	800	20

SEMESTER-IV (SECOND YEAR)

S. NO.	Course Type	Course Code	Course Name	Teaching Scheme			Evaluation Scheme			Total Marks	Credits
				L	T	P	CA	MTE	ETE		
LABORATORIES/ PROJECT											
1	Project	MCE-401	Dissertation-II	0	0	24	200	0	600	800	20
TOTAL				0	0	24	200	0	600	800	20

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DEPARTMENTAL ELECTIVE-V

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-204	Advance Concrete Technologies	3	1	0	0	20	20	60	100	4	3	
2	MCE-211	Highway Sub-grade and Foundation Analysis	3	1	0	0	20	20	60	100	4	3	
3	MCE-212	Highway Bridges	3	1	0	0	20	20	60	100	4	3	
4	MCE-213	Road Safety	3	1	0	0	20	20	60	100	4	3	

DEPARTMENT OF CIVIL ENGINEERING, Faculty of Engineering and Technology

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DEPARTMENTAL ELECTIVE-VI

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-304	Advanced Mathematics & Numerical Analysis	3	1	0	0	20	20	60	100	4	3	
2	MCE-314	Bituminous Concrete Road Construction	3	1	0	0	20	20	60	100	4	3	
3	MCE-315	Cement Concrete Road Construction	3	1	0	0	20	20	60	100	4	3	
4	MCE-316	Highway Construction	3	1	0	0	20	20	60	100	4	3	

DEPARTMENT OF CIVIL ENGINEERING, Faculty of Engineering and Technology

Satyaveer



DEPARTMENTAL ELECTIVE-VII

S. NO.	CODE	SUBJECT	TEACHING SCHEME				EVALUATION SCHEME			TOTAL MARKS	CREDITS	CONTACT HRS/WK	PRE- REQUISITES
			L	T	P	J	CA	MTE	ETE				
THEORY													
1	MCE-317	Railway Engineering	3	1	0	0	20	20	60	100	4	3	
2	MCE-318	Airport Planning and Design	3	1	0	0	20	20	60	100	4	3	
3	MCE-319	Harbor and Dock Engineering	3	1	0	0	20	20	60	100	4	3	
4	MCE-320	Tunnel Engineering	3	1	0	0	20	20	60	100	4	3	

L-Lecture, T-Tutorial, P- Practical, CA- Continuous Assessment, MTE-Mid Term Examination, ETE-End Term Examination

Evaluation Scheme:

Course with theory components only

For Continuous Assessment (CA) is such as: 30 Marks

- a) Attendance : 10 Marks
- b) Assignments: 10 Marks
- c) Class Tests : 10 Marks

MTE - Mid Term Examination: 20 Marks

ETE - End Term Examination: 100 Marks

Course with practical components only

For Continuous Assessment (CA) is such as: 20 Marks

- a) Attendance : 10 Marks
- b) Performance : 10 Marks
- c) Practical File : 10 Marks

ETE - End Term Examination: 50 Marks

DEPARTMENT OF CIVIL ENGINEERING, Faculty of Engineering and Technology



RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Faculty of Engineering and Technology

Department of Civil Engineering

Course: Bachelor of Technology (CE)

Report on Feedback on Curriculum by Stakeholders (2019-2020)

- The external experts reviewed the syllabus through mail and suggested that comprehensive revision of course content based on CBCS Model Curriculum released by AICTE may be considered for updating.
- The alumni also suggested comprehensive revision of course content and updates to keep track of latest and updated technology being used in the field of Civil Engineering.
- The members of the faculty were also of the same opinion so that there is uniformity in syllabus.

A handwritten signature in blue ink, appearing to be 'S. Kumar', written over the text 'BoS Chairman'.

BoS Chairman

Dean/Principal



RAMA UNIVERSITY UTTAR PRADESH, KANPUR

Faculty of Engineering and Technology

Department of Civil Engineering

Course: Bachelor of Technology (CE)

Action Taken Report based on Feedback at BoS held on 25.05.2019

- The syllabus was reviewed and revised accordingly based on CBCS Model Curriculum released by AICTE.
- The emphasis on extensive Industrial Training has been given to keep track of latest and updated technology being used in the field of Civil Engineering.

A handwritten signature in blue ink, appearing to be 'S. P. Singh', written over the text 'BoS Chairman'.

BoS Chairman

Dean/Principal