NEW HORIZON
COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade. Accredited by NBA

DEPARTMENT OF CIVIL ENGINEERING

10th BOARD OF STUDIES MEETING

Minutes of Meeting

ACADEMIC YEAR 2023-24

DATE : 05.10.2023

VENUE : DEPARTMENT OF CIVIL ENGINEERING

TIME : 10.30 AM

Dr. B. Anandhi
Professor and Dean-Academics
New Horizon College of Engineering
Ring Road Bellandur Post
Bengaluru - 560 103

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AGENDA FOR THE MEETING

1. Welcome address by the chairman of BOS
2. Presentation by Chairman of BOS about Department achievements
3. Presentation of proceedings of the previous BOS meeting by Chairman of BOS.
4. Presentation of draft of Scheme & Syllabus of Third year Civil Engineering Courses.
5. Recommendations/ Suggestions of BOS members.
6. Implementation of recommendation of BOS members
7. Approval of Scheme& Syllabus of Third year Civil Engineering Subjects.
8. Vote of Thanks by the chairman of BOS.

BOS LIST OF MEMBERS 2023-24

Sl. No	Category	Nomination of the committee	Name of the person	Email ID & Mobile No
1	Head of the Department	Chairperson	**Dr. Niranjan P S**	niranjanps@newhorizonindia.edu 9845788345
2	Faculty member at different level with different specialization	Member		
		1	**Prof. Surendra B V**	surendrabv@newhorizonindia.edu 9663758660
		2	**Ms. Swetti Jha**	swettij@newhorizonindia.edu 9916109384
		3	**Ms. Snehal R Lahande**	snehalrl@newhorizonindia.edu 8197522350
		4	**Ms. SerinIssac**	serini@newhorizonindia.edu 9633740988
		5	**Mr. Channabasava**	channabasava@newhorizonindia.edu 9844468028
3	Subject expert from outside the college nominated by Academic Council	Member		
		1	**Dr. Devatha Chella Purushothaman** Associate Professor, National Institute of Technology, Suratkal, Karnataka	devathafce@nitk.edu.in 9483032757
		2	**Dr. Radha Krishna ,** Professor & HOD, RVCE Bengaluru	radhakrishna@rvce.edu.in 9886127398
		3	**Dr. P. Prasanna Kumar,** Professor, BMSCE, Bengaluru	ppkiisc@gmail.com 9448555312
4	Experts from outside the college nominated by Vice Chancellor	Member		
		1	**Dr. K N Vishwanath** Professor & HOD, DSATM, Bengaluru	hodcivil@dsatm.edu.in 9880059065
5	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member		
		1	**Mr. Sandeep T D** Asst Engineer, BWSSB, Peenya Division, Govt of Karnataka	sandeeptd7@gmail.com 9964733758
		2	**Mr. N. VijayaBhaskar** Project Manager, DSR Waterscape, Bangalore.	bhask.nidhi@gmail.com 7760969310
6	Post Graduate meritorious alumni nominated by Principal	Member		
		1	**Mr. Siddarth Hegde** Lead Specialist, Space Presentation and Transition, Target Corporations, India	sidd99rocks@gmail.com 7892394614

LIST OF MEMBERS PRESENT

Sl. No	Category	Nomination of the committee	Name of the person	Signature
1	Head of the Department	Chairperson	**Dr. Niranjan P S**	
2	Special Invitees	Members		
		1	**Dr. Manjunatha** Principal, NHCE	
		2	**Dr. R J Anandhi** Dean Academics, NHCE	
2	Faculty members at different level with different specialization	Members		
		1	**Prof. Surendra B V**	
		2	**Ms. Swetti Jha**	
		3	**Ms. Snehal R Lahande**	
		4	**Ms. SerinIssac**	
		5	**Mr. Channabasava**	
3	Subject experts from outside the college nominated by Academic Council	Members		
		1	**Dr. Devatha Chella Purushothaman** Associate Professor National Institute of Technology, Suratkal, Karnataka	ONLINE
		2	**Dr. Radha Krishna ,** Professor & HOD, RVCE Bengaluru	
		3	**Dr. P. Prasanna Kumar,** Professor, BMSE, Bengaluru	ONLINE
4	Experts from outside the college nominated by by VTU	Member		
		1	**Dr. K N Vishwanath** Professor & HOD, DSATM, Bengaluru	05/10/2023
5	Representatives from Industry / Corporate sector / allied areas related to placements, nominated by Academic Council	Members		
		1	**Mr. Sandeep T D** Asst Engineer BWSSB, Peenya Division, Govt of Karnataka	
		2	**Mr. N. Vijaya Bhaskar** Project Manager, DSR Waterscape. Bangalore.	ONLINE
6	Post Graduate meritorious alumnus nominated by the Principal	Member		
		1	**Mr. Siddarth Hegde** Lead Specialist, Space Presentation and Transition,Target Corporations, India	ONLINE

AGENDA -1

Welcome address by the Chairman of BOS

The 10th Board of Studies meeting of Department of Civil engineering was scheduled on 05.10.2023 at 10.30 AM in the Civil Engineering Department.

At the outset, Chairperson Dr. Niranjan P S – Professor & Head – Department of Civil Engineering, welcomed the members for attending the 10th Board of Studies meeting that was arranged in smart class room B-119.

The chairperson introduced Dr. Manjunatha, Principal and Dr. R J Anandhi, Prof & Dean–Academics, New Horizon College of Engineering to the members of Board of Studies and welcomed them for the ensuing proceedings.

The chairperson further expressed special thanks to **Dr. K N Vishwanath,** an expert, nominatedby VTU, Dr. **Devatha Chella Purushothaman (joined online),Dr. Radha Krishna** and **Dr. P. Prasanna Kumar** experts, nominated by Academic Council for sparing their valuable time from their busy schedule to attend the meeting.

The chairperson also expressed his gratitude to **industrial nominees,** Mr. Sandeep T D, Asst Engineer, BWSSB, Govt of Karnataka and Mr. N. Vijaya Bhaskar, Project Manager, DSR Waterscape. Bangalore.

The meeting was also attended by meritorious alumnus **Mr. Siddarth Hegde,** Lead Specialist, Space Presentation and Transition, Target Corporations, India nominated by the Principal, and Internal faculty members **Prof. Surendra B V,Ms. Swetti Jha, Ms. Snehal R Lahande, Ms. SerinIssac, Mr. Channabasava** specialized in various domains.

AGENDA -2

Presentation by the Chairman of BOS about the Departmental achievements

Chairman of BOS Dr. Niranjan P S, Professor & Head, Department of Civil Engineering, presented the achievements of the department in the current academic year 2022-23.

AGENDA -3

Presentation of proceedings of the previous BOS meeting by the Chairman of BOS

The Chairman of BOS Dr. Niranjan P S, Professor & Head, Department of Civil Engineering, briefed the proceedings of previous BOS meeting acknowledging their contribution for betterment in framing the scheme & syllabus.

AGENDA -4

Proposed Course details for the academic year 2023-24

V Semester (2023 Scheme –160 Credits)

Sl.No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	Total
1	21CIV51	Environment Engineering	CIV	3	0	0	0	3	3	50	50	100
2	21CVL51	Environment Engineering Lab	CIV	0	0	1	0	1	2	50	50	100
3	21CIV52	Design of RC Structural Elements	CIV	3	0	0	0	3	3	50	50	100
4	21CVL52	RC Structural Elements Lab	CIV	0	0	1	0	1	2	50	50	100
5	21CIV53	Hydrology and Irrigation Engineering	CIV	3	0	0	0	3	3	50	50	100
6	21CIV54*	Professional Elective Course-I	CIV	3	0	0	0	3	3	50	50	100
7	21CVL55*	Ability Enhancement Course-V	CIV	0	0	1	0	1	2	50	50	100
8	21CIV56	Mini Project – (STAAD-Analysis of Structure concepts)	CIV	0	0	1	0	1	2	50	50	100
9	21CVK57	Research Methodology and IPR	CIV	1	0	0	0	1	1	50	50	100
10	21CVK58	Innovation and Design Thinking	CIV	1	0	0	0	1	1	50	50	100
Total								18	22	500	500	1000

Professional Elective Course - I	
21CIV541	Advance concrete technology
21CIV542	Air pollution and control
21CIV543	Applied Geotechnical Engineering
21CIV544	Construction quality and safety
21CIV545	Prefabricated Structures
Ability Enhancement Course - V	
21CVL551	Concrete Mix design Concept
21CVL552	Building Design Lab
21CVL553	Data Analytics with Excel
21CVL554	Construction and Services Lab

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DEPARTMENT OF CIVIL ENGINEERING

Scheme of VI Semester B.E Program

Sl. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	Total
1	21CIV61	Construction Management and Engineering Economics	CIV	3	0	0	0	3	3	50	50	100
2	21CIV62	Transportation Engineering	CIV	3	0	0	0	3	3	50	50	100
3	21CVL62	Transportation Engineering Lab	CIV	0	0	1	0	1	2	50	50	100
4	21CIV63	Design of Steel Structures	CIV	3	0	0	0	3	3	50	50	100
5	21CVL63	Steel Structures Lab	CIV	0	0	1	0	1	2	50	50	100
6	21CIV64*	Professional Elective Course-II	CIV	3	0	0	0	3	3	50	50	100
7	21CVK65	Social Connect and Responsibility	CIV	0	0	1	0	1	2	50	50	100
8	21CIV66	Innovation/Entrepreneurship/ Societal Internship	CIV	0	0	3	0	3	0	50	50	100
9	21CIV67	Mini project (Extensive survey project)	CIV	0	0	1	0	1	2	50	50	100
10	21NHOP6XX	Industrial Open Elective Course-I	Offering Dept.	3	0	0	0	3	3	50	50	100
Total								**22**	**23**	**500**	**500**	**1000**

Professional Elective Course - II	
21CIV641	Ground Water Hydrology
21CIV642	Pavement Materials and construction
21CIV643	Recycling of waste water
21CIV644	Design & Drawing of Hydraulic Structure
21CIV645	Bio Inspired Design and Innovation

Presentation of draft of Scheme & Syllabus of Third year 160 Credits Civil Engineering Courses

✓ The Chairperson presented the draft of scheme and contents of syllabus in each Course for fifth and sixth semester for scrutiny. The details were scrutinized by the members of the Board.

❖ **Fifth semester Civil Engineering Courses :-**

SL NO	COURSE CODE	COURSE
1	21CIV51	Environment Engineering
2	21CVL51	Environment Engineering Lab
3	21CIV52	Design of RC Structural Elements
4	21CVL52	RC Structural Elements Lab
5	21CIV53	Hydrology and Irrigation Engineering
6	21CIV541	Advance concrete technology
7	21CIV542	Air pollution and control
8	21CIV543	Applied Geotechnical Engineering
9	21CIV544	Construction quality and safety
10	21CIV545	Prefabricated Structures
11	21CVL551	Concrete Mix design Concept
12	21CVL552	Building Design Lab
13	21CVL553	Data Analytics with Excel
14	21CVL554	Construction and Services Lab
15	21CIV56	Mini Project – (STAAD-Analysis of Structure concepts)
16	21CVK57	Research Methodology and IPR
17	21CVK58	Innovation and Design Thinking

❖ **Sixth Semester Civil Engineering Subjects: -**

SL NO	COURSE CODE	COURSE
1	21CIV61	Construction Management and Engineering Economics
2	21CIV62	Transportation Engineering
3	21CVL62	Transportation Engineering Lab
4	21CIV63	Design of Steel Structures
5	21CVL63	Steel Structures Lab
6	21CIV641	Ground Water Hydrology
7	21CIV642	Pavement Materials and construction
8	21CIV643	Recycling of waste water
9	21CIV644	Design & Drawing of Hydraulic Structure
10	21CIV645	Bio Inspired Design And Innovation
11	21CIV67	Mini project (Extensive survey project)
12	21NHOP6XX - Industrial Open Elective Course-I	
A	21NHOP601	Big Data Analytics using HP Vertica-1
B	21NHOP602	VM Ware Virtualization Essentials-1
C	21NHOP604	Big Data Analytics using HP Vertica-2
D	21NHOP605	VM Ware Virtualization Essentials-2
E	21NHOP607	SAP
F	21NHOP608	Schneider-Industrial Automation
G	21NHOP609	CISCO-Routing and Switching-1
H	21NHOP610	Data Analytics
I	21NHOP611	Machine learning
J	21NHOP612	CISCO-Routing and switching - 2
K	21NHOP613	IIOT – Embedded System
L	21NHOP614	Block Chain
M	21NHOP615	Product Life Cycle Management
N	21NHOP617A	Network Security and Cryptography
O	21NHOP618A	Physical Design
P	21NHOP619A	AI Data Analysis with Python

AGENDA -5

Recommendations/ Suggestions of BOS members

1 Discussion Points

1.1 General

Members suggested the following measures after discussing pros and cons of the contents of the syllabii of all the courses, their relevance and their coverage within the scheduled allotted time period in a semester.

- The **COs** and **mapping of the COs and Program outcomes (POs)** for all the Courses are to be relooked into.
- Members suggested to include software based courses (Labs) to enhance the employability opportunities of the students.
- Coaching hours for the GATE and other competitive examinations are to be included in the time table.

1.2 Scheme

- The Professional electives of each group should include all the streams of the Civil Engineering and should be carefully chosen.
- Professional Elective (PE) Courses should provide employable opportunity. Members suggested to include more software related courses in the PE.
- Members proposed to conduct Workshops/Seminars to fill the gap in the curriculum.
- The **NPTEL courses** for each elective have to be identified and the link of the same should be shared with students for enrolment into those courses..

1.3 Subject Specific

1.3.1 Environmental Engineering (21CIV51)

- The content of the syllabus is ok.
- Visits to water treatment plants can be arranged.
- Workshops/Technical talks can be organizedto impart knowhow regarding layout of water supply distribution system in a building .

1.3.2 Design of R C Structural Elements (21CIV52)

- The content of the syllabus is ok.
- Site Visits need to be compulsorily arranged.

- Hands-on workshops should be conducted to prepare detailing and bar bending schedule.

1.3.3 *Air pollution and control (21CIV542)*

- The content of the syllabus is ok.
- Critical junctions in Bangalore can be chosen for study and a data base can be prepared.

1.3.4 *Construction Quality and safety (21CIV544)*

- The content of the syllabus is ok.
- Site Visits need to be compulsorily arranged to study quality and safety measures.

1.3.5 *Prefabricated Structures (21CIV545)*

- The content of the syllabus is ok.
- Workshops need to be organized to stress the importance of speed of construction and economy achieved using prefabrication construction technology.

1.3.6 *Transportation Engineering (21CIV62)*

- The content of the syllabus is ok.
- Case studies to suggest remedial measures for the traffic congestion in ORR can be undertaken.

AGENDA -6

Implementation of recommendation of BOS members

The chairperson constituted the following groups to review and implement the recommendations of the BOS members in the scheme and syllabus of the curriculum based on industry needs.

Sl. No	Course Code	Course Name	Faculty Incharge
1	21CIV51	Environment Engineering	Ms. Swetti Jha
2	21CVL51	Environment Engineering Lab	Ms. Swetti Jha
3	21CIV52	Design of RC Structural Elements	Dr. Surendra B V
4	21CVL52	RC Structural Elements Lab	Dr. Surendra B V
5	21CIV53	Hydrology and Irrigation Engineering	Ms. Swetti Jha
6	21CIV541	Advance concrete technology	Mr. Channabasava
7	21CIV542	Air pollution and control	Ms. Swetti Jha
8	21CIV543	Applied Geotechnical Engineering	Ms. SerinIssac
9	21CIV544	Construction quality and safety	Ms. Snehal R Lahande
10	21CIV545	Prefabricated Structures	Ms. Snehal R Lahande
11	21CVL551	Concrete Mix design Concept	Ms. Snehal R Lahande
12	21CVL552	Building Design Lab	Mr. Channabasava
13	21CVL553	Data Analytics with Excel	Mr. Channabasava
14	21CVL554	Construction and Services Lab	Mr. Channabasava
15	21CIV56	Mini Project – (STAAD-Analysis of Structure concepts)	Mr. Channabasava
16	21CVK57	Research Methodology and IPR	Ms. Swetti Jha
17	21CVK58	Innovation and Design Thinking	Ms. SerinIssac
18	21CIV61	Construction Management and Engineering Economics	Ms. Snehal R Lahande
19	21CIV62	Transportation Engineering	Ms. Swetti Jha
20	21CVL62	Transportation Engineering Lab	Ms. SerinIssac
21	21CIV63	Design of Steel Structures	Dr. Niranjan P S
22	21CVL63	Steel Structures Lab	Mr. Channabasava
23	21CIV641	Ground Water Hydrology	Ms. Swetti Jha

24	21CIV642	Pavement Materials and construction	Ms. SerinIssac
25	21CIV643	Recycling of waste water	Ms. Swetti Jha
26	21CIV644	Design & Drawing of Hydraulic Structure	Ms. SerinIssac
27	21CIV645	Bio Inspired Design And Innovation	Mr. Channabasava
28	21CIV67	Mini project (Extensive survey project)	Mr. Channabasava

The groups reviewed the curriculum and affected the changes regarding issues raised by external BOS members.

AGENDA -7

Approval of Scheme & Syllabus of Third year Civil Engineering Subjects

The members of the Board of Studies reviewed the modified draft of the scheme & syllabus which included their recommendations/suggestions.

Finally, the members approved the modified draft for final implementation.

❖ **Fifth semester Civil Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT
1	21CIV51	Environment Engineering
2	21CVL51	Environment Engineering Lab
3	21CIV52	Design of RC Structural Elements
4	21CVL52	RC Structural Elements Lab
5	21CIV53	Hydrology and Irrigation Engineering
6	21CIV54* - Professional Elective Course-I	
A	21CIV541	Advance concrete technology
B	21CIV542	Air pollution and control
C	21CIV543	Applied Geotechnical Engineering
D	21CIV544	Construction quality and safety
E	21CIV545	Prefabricated Structures
7	21CVL55*- Ability Enhancement Course-V	
A	21CVL551	Concrete Mix design Concept
B	21CVL552	Building Design Lab
C	21CVL553	Data Analytics with Excel
D	21CVL554	Construction and Services Lab
8	21CIV56	Mini Project – (STAAD-Analysis of Structure concepts)
9	21CVK57	Research Methodology and IPR
10	21CVK58	Innovation and Design Thinking

❖ **Sixth Semester Civil Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT
1	21CIV61	Construction Management and Engineering Economics
2	21CIV62	Transportation Engineering
3	21CVL62	Transportation Engineering Lab
4	21CIV63	Design of Steel Structures
5	21CVL63	Steel Structures Lab
6	21CIV64*	Professional Elective Course-II
A	21CIV641	Ground Water Hydrology
B	21CIV642	Pavement Materials and construction
C	21CIV643	Recycling of waste water
D	21CIV644	Design & Drawing of Hydraulic Structure
E	21CIV645	Bio Inspired Design and Innovation
7	21CIV67	Mini project (Extensive survey project)

Name and Signatures of all the Attendees:

Sl. No.	Name	Signature	Sl. No.	Name	Signature
1	Dr. Niranjan P S		9	Ms. Swetti Jha	
2	Dr. Manjunatha		10	Ms. Snehal R Lahande	
3	Dr. R J Anandhi		11	Ms. Serin Issac	
4	Dr. K N Vishwanath	05/10/2023	12	Mr. Channabasava	
5	Dr.Devatha Chella Purushothaman	–	13	Mr. Sandeep T D	
6	Dr. Radha Krishna		14	Mr. N VijayaBhaskar	–
7	Dr. P Prasanna Kumar	–	15	Mr. Siddarth Hegde	–
8	Prof. Surendra B V				

AGENDA -8

Vote of Thanks by the chairman of BOS

The chairman of BOS thanked the external members for their fruitful participation on behalf of the Principal and the Management. He also thanked Dr. Manjunatha, Principal and Dr. R J Anandhi, Prof & Dean–Academics and all the other members of the BOS for their active participation.

Dr. Niranjan P S

Chairman

Board of Studies

Department of Civil Engineering