



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

GRIET/CE/BOS/IE/G/20-21

18th July 2020

Minutes of Meeting

For

I & II B. Tech Civil Engineering

(For students admitted from 2020-21 as per GR20 Regulations)

Board of Studies


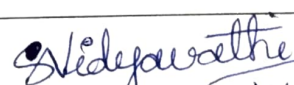



Held on 18th July 2020









GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

Minutes of meeting of the BOS for B. Tech Civil engineering (syllabus approval for I & II year GR20 Regulation) of Gokaraju Rangaraju Institute of Engineering & Technology (Autonomous) Hyderabad held on 18th July 2020 in the Department of Civil Engineering (online and offline), GRIET at 12:30PM.

Members Present:

Sl.No	Name of the Member	Designation	Signature with date
1	Dr V Mallikarjuna reddy, Professor & HOD Department of Civil Engineering GRIET, Bachupally, Hyderabad	BOS Chairman	 18/07/2020
2	Dr S Vidyavathi, Professor Department of Civil Engineering JNTUH, Kukatpally, Hyderabad	JNTU Nominee	 18/07/2020
3	Dr M V Seshagiri Rao Professor Department of Civil Engineering CVR college of Engineering	External member	Attended through online
4	Prof.P.Sreenivas Sarma Professor Department of Civil Engineering CBIT, Gandipet, Hyderabad	External member	Attended through online
5	Dr V V Krishna Reddy Chief Consultant & Proprietor M/S Continental Designers Project Consultant, Hyderabad	Industry Expert	Attended through online
6	Dr Mohammad Hussain Professor Department of Civil Engineering GRIET, Bachupally, Hyderabad	Internal Member	
7	Dr G V V Satyanarayana Professor Department of Civil Engineering GRIET, Bachupally, Hyderabad	Internal Member	
8	Dr V Srinivasa Reddy Professor Department of Civil Engineering GRIET, Bachupally, Hyderabad	Internal Member	Attended through online 


PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
Engineering and Technology
Bachupally, Kukatpally,
Hyderabad

9	Dr C Lavanya Professor Department of Civil Engineering GRIET, Bachupally, Hyderabad	Internal Member	
10	Dr T Srinivas Professor Department of Civil Engineering GRIET, Bachupally, Hyderabad	Internal Member	
11	Dr Atulkumar Anil Manchalwar Associate Professor Department of Civil Engineering GRIET, Bachupally, Hyderabad	Internal Member	
12	Dr K Srikanth Associate Professor Department of Civil Engineering GRIET, Bachupally, Hyderabad	Internal Member	
13	Mr T Srikanth Associate Professor Department of Civil Engineering GRIET, Bachupally, Hyderabad	Internal Member	
14	Dr N Satish Professor & HoD, Department of Mech Engineering GRIET, Bachupally, Hyderabad	Internal Member	Attended through online
15	Mr K Jagannadha Reddy	Alumni	Attended through online


Item 1: Syllabus subject to approval by Academic council is confirmed for B.Tech Civil engineering (I & II years) and course structure for I to IV year.

Item 2: Subjects of BSC, ESC, HSMC and MC are confirmed by BOS of respective Departments.

Item 3: Evaluation Scheme suggested as per GR20 to be adopted.

Item 4: Panel of Examiners are suggested.

Item 5: Existing practices to be strengthened and continued.


PROFESSOR AND HEAD
Department of Civil Engineering
Bokaraju Rangaraju Institute of
Engineering and Technology
Bachupally, Kukatpalle
Hyderabad - 500082




GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

ACTION TO BE TAKEN IN B. Tech COURSE STRUCTURE and I&II YEAR SYLLABUS

Minutes of meeting of the BOS for B. Tech Civil engineering (syllabus approval for I & II year GR20 Regulation) of Gokaraju Rangaraju Institute of Engineering & Technology (Autonomous) Hyderabad held on 18th July 2020 in the Department of Civil Engineering (online and offline), GRIET at 12:30PM.

The following members constitute the board of studies of Civil Engineering, with effect from the Academic year 2020-21.

- | | |
|--|-----------------|
| 1. Dr V Mallikarjuna reddy, professor & HOD, DCE, GRIET | BOS Chairman |
| 2. Dr S Vidyavathi, Professor, DCE, JNTUH, Kukatpally | JNTU Nominee |
| 3. Dr M V Seshagiri Rao, Professor, DCE, CVR College of Engineering member | External |
| 4. Prof. P. Sreenivas Sarma, professor, DCE, CBIT member | External |
| 5. Dr V V Krishna Reddy, Chief Consultant & Proprietor, M/S Continental Designers Project Consultant | Industry Expert |
| 6. Dr Mohammad Hussain, Professor, DCE, GRIET Member | Internal |
| 7. Dr G V V Satyanarayana, Professor, DCE, GRIET Member | Internal |
| 8. Dr V Srinivasa Reddy, Professor, DCE, GRIET Member | Internal |
| 9. Dr C Lavanya, Professor, DCE, GRIET Member | Internal |
| 10. Dr T Srinivas, Professor, DCE, GRIET Member | Internal |
| 11. Dr Atulkumar Anil Manchalwar, Associate Professor, DCE, GRIET Member | Internal |
| 12. Dr K Srikanth, Associate Professor, DCE, GRIET Member | Internal |


PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
Engineering and Technology
Kukatpally, Hyderabad - 500 080

13. Mr T Srikanth, Associate Professor,DCE,GRIET
Member

Internal

14. Dr N Satish, Professor & HOD,DME,GRIET

Co-opted Member

15. Mr Jagannadh


Alumni

Head of the department welcomed all members in BOS meeting both online and offline discussed the following points to be considered in the course structure and syllabus.

S.No	Actionable Items	Action to be Taken by
1	Changes in Course Structure: 1. Economics and Accounting for Engineers is to be shifted to II year II Semester, Design of Reinforced Concrete Structures to III year I Semester and Design of Steel Structures to III year II semester in B.Tech Course structure. 2. Masonry Structures and Prestressed concrete has to be mutually exchanged in Professional Elective threads as Prestressed concrete fundamentals to be completed before starting with that subject.	K Hemalatha
2	All the subjects must be included with Course Pre-Requisites (write before Course Objectives and Course Outcomes).	All faculty
3	Changes in Syllabus: Building Materials and Construction Planning: Unit II has to reduced as it will be covered in Concrete Technology and more syllabus to included in Unit V (Increase planning topics)	A.Prakash
4	Changes in Syllabus: Surveying: Include Digital Photogrammetry syllabus in Unit V	Dr K Srikanth
5	Changes in Syllabus: Strength of Materials I: Keep the subtopics in Unit II as it should reflect Principle stresses and strains.	Mrs K Hemalatha

U. Nall...
PROFESSOR
Department of Civil Engineering
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Kuchipally 500 000

6	Changes in Syllabus: Hydraulic Engineering: Add Reciprocating pumps in Unit V.	Mr S Venkatacharyulu
7	Changes in Syllabus: Surveying lab: Study of Toposheets has to be included in Task I(ii) in task I and GPS hand application has to be included in Task 10 (ii)	Mr A Prakash
8	Changes in Syllabus: CAD lab: Remove MAT lab in task 8 and include Detailing of Truss	Mr C Vivek Kumar
9	Changes in Syllabus: Fluid Mechanics & Hydraulic Machinery lab: Kaplan Turbine and Multi stage Reciprocating pump has to be included and Remove Hydraulic jump.	Mr S Venkatacharyulu


 PROFESSOR AND HEAD
 Department of Civil Engineering
 Gokaraju Rangaraju Institute of
 Engineering and Technology
 Bachupally, Kukatpally,
 Hyderabad-500 090



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

DEPARTMENT OF CIVIL ENGINEERING

Minutes of Meeting for Board of Studies

The members of Board of Studies during the meeting held on 10th July 2020 through online mode after having discussions thoroughly, drew the following recommendations for GR20 B. Tech Civil Engineering Program Structure and Syllabus (I year & II Year) subject to be approved by Academic Council is confirmed for B Tech Civil Engineering.

- Introduction of new courses like Irrigation management and Tall Buildings are introduced as Professional Elective I & III
- There are six professional electives starting from III yr I sem and three open electives starting from III yr I sem.
- Four threads are recommended for professional electives as Structural Engineering, Geotechnical and Transportation Engineering, Environmental and Hydrology Engineering and Construction Technology & Management
- Under these threads, courses like Structural Analysis II, Masonry Structures, Bridge Engineering, Industrial Structures, Prestressed Concrete, Earthquake Engineering, Traffic Engineering and Management, Rock Mechanics, Ground Improvement Techniques, Geometric Design of Highways, Pavement Design, Urban Transportation Planning, Groundwater, Open Channel flow, Surface Hydrology, Physico-Chemical Processes for Water and Wastewater Treatment, Design of hydraulic structures, Green Building Technology, Irrigation Management, Construction Equipment & Automation, Tall Buildings, Rehabilitation & Retrofitting of Structures, Construction Project Planning & Systems, Pavement Materials are recommended.
- Detailing of Trusses is to be added in CAD lab as Task 8.
- Reciprocating pumps topic is added in Hydraulic Engineering Unit V for gaining knowledge for pump design in low flow and pressure applications.

V. Mallikarjun

Chairman, BoS

PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
Engineering and Technology
Bachupally, Kukatpally
Hyderabad - 500 082

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)



DEPARTMENT OF CIVIL ENGINEERING
Comparison of syllabus

S.No	Name of the Course	GR18 to GR20
1	New Courses	Irrigation management and Tall Buildings are introduced as new courses in Professional Elective I & Professional Elective III
2	Professional electives and open electives	Six professional electives starting from III yr I sem and three open electives starting from III yr I sem
3	Structural Engineering thread	Structural Analysis II, Masonry Structures, Bridge Engineering, Industrial Structures, Prestressed Concrete, Earthquake Engineering
4	Geotechnical and Transportation Engineering thread	Traffic Engineering and Management, Rock Mechanics, Ground Improvement Techniques, Geometric Design of Highways, Pavement Design, Urban Transportation Planning are included
5	Environmental and Hydrology Engineering thread	Groundwater, Open Channel flow, Surface Hydrology, Physico-Chemical Processes for Water and Wastewater Treatment, Design of hydraulic structures, Green Building Technology are included
6	Construction Technology & Management thread	Irrigation Management, Construction Equipment & Automation, Tall Buildings, Rehabilitation & Retrofitting of Structures, Construction Project Planning & Systems, Pavement Materials
7	Building Materials and Construction Planning	Unit II is reduced as it will be covered in Concrete Technology and more syllabus included in Unit V
8	Hydraulic Engineering	Reciprocating pumps added in Unit V.
9	Surveying lab	Study of Toposheets included in Task I(ii) in task I and GPS hand application included in Task 10 (ii)
10	CAD lab	Removed MAT lab in task 8 and included Detailing of Truss
11	Fluid Mechanics & Hydraulic Machinery lab	Kaplan Turbine and Multi stage Reciprocating pump included and Hydraulic jump removed.

V. H. Reddy
PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of Engineering and Technology
Bachupally, Hyderabad - 501301
Ph: 011-26111111



Gokaraju Rangaraju Institute of Engineering and Technology
(Autonomous)
Bachupally, Hyderabad-500090

GRIET/CE/BOS/IE/G/21-22

22nd Oct 2021

Minutes of Meeting

For

III & IV B.Tech Civil Engineering

(For students admitted from 2020-21 as per GR20 Regulations)

Board of Studies

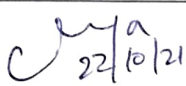
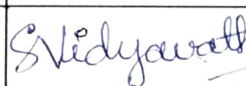

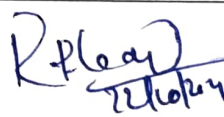

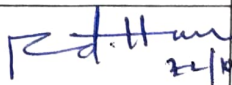
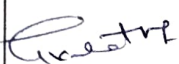
Held on 22nd Oct 2021

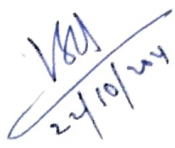


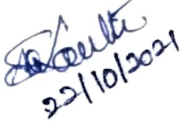
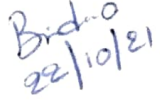
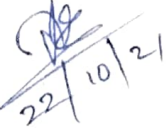
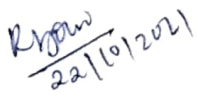


**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)**

Minutes of meeting of the BOS for B. Tech Civil Engineering, Syllabus approval for III & IV-year GR20 Regulation of Gokaraju Rangaraju Institute of Engineering and Technology (Autonomous) held on 22nd Oct 2021 in the Department of Civil Engineering, GRIET at 3:00PM.

Venue: Room No:4212, Seminar Hall, Civil Engineering Department.

S.No.	Name of the member	Position in the Current Engagements	Position in the BOS	Signature
Chairperson				
1	Dr C Lavanya	Professor & I/C HOD, Department of Civil Engineering, GRIET, Hyderabad	Chairman	 22/10/21
University Nominee				
2	Dr S Vidyavathi	Professor, Department of Civil Engineering, JNTUH, Kukatpally	JNTUH Nominee	 22/10/2021
Educationist or Industrialist				
3	Dr M V Seshagiri Rao	Professor, Department of Civil Engineering, CVR College of Engineering	External Expert (Academics)	 22/10/2021
4	Dr. R. Prasanna Kumar	Professor & HOD, Department of Civil Engineering, Geetanjali College of Engineering & Technology.	External Expert (Academics)	 22/10/2021
5	Dr V V Krishna Reddy	Chief Consultant & Proprietor, M/S Continental Designers Project Consultant	External Expert (Industry)	
Members				
6	Dr Mohammad Hussain	Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 22/10/2021
7	Dr G V V Satyanarayana	Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	

8	Dr V Srinivasa Reddy	Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 22/10/2021
9	Dr T Srinivas	Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	
10	Dr Atulkumar Anil Manchalwar	Associate Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 22/10/2021
11	Dr K Srikanth	Associate Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 22/10/2021
12	Dr O S D Hima Bindu	Associate Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 22/10/21
13	Mr T Srikanth	Associate Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 22/10/21
14	Dr R Raman Goud	Professor, Department of Mechanical Engineering, GRIET, Hyderabad	Internal Member	 22/10/2021
15	Mr Mohammed Azharuddin	Student, PhD (Pursuing), Indian Institute of Technology Hyderabad	Alumni	M. Azhar

Item 1: Syllabus subject to approval by Academic council is confirmed for B. Tech Civil Engineering III & IV Year.

Item 2: Subjects of BS, ES, HS and MC are confirmed by BOS of respective Departments.

Item 3: Evaluation Scheme suggested as per GR20 to be adopted.

Item 4: Panel of Examiners are suggested.

Item 5: Existing Practices to be strengthened and continued.



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

ACTION TO BE TAKEN IN B. Tech III and IV YEAR SYLLABUS

Minutes of meeting of the BOS for B. Tech Civil engineering (syllabus approval for III & IV year GR20 Regulation) of Gokaraju Rangaraju Institute of Engineering & Technology (Autonomous) Hyderabad held on 22nd October 2021 in the Department of Civil Engineering, Seminar Hall, GRIET at 3:00PM.

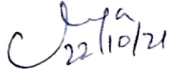
The following members constitute the board of studies of Civil Engineering, with effect from the Academic year 2021-22.

- | | |
|---|--------------------------------|
| 1. Dr C Lavanya, Professor & I/C HOD, DCE, GRIET | BOS Chairman |
| 2. Dr S Vidyavathi, Professor, DCE, JNTUH, Kukatpally | JNTU Nominee |
| 3. Dr M V Seshagiri Rao, Professor, DCE, CVR College of Engineering | External Expert
(Academics) |
| 4. Dr. R. Prasanna Kumar, Professor & HOD, DCE, Geetanjali College of Engineering & Technology | External Expert
(Academics) |
| 5. Dr V V Krishna Reddy, Chief Consultant & Proprietor,
M/S Continental Designers Project Consultant | External Expert
(Industry) |
| 6. Dr Mohammad Hussain, Professor, DCE, GRIET | Internal Member |
| 7. Dr G V V Satyanarayana, Professor, DCE, GRIET | Internal Member |
| 8. Dr V Srinivasa Reddy, Professor, DCE, GRIET | Internal Member |
| 9. Dr T Srinivas, Professor, DCE, GRIET | Internal Member |
| 10. Dr Atulkumar Anil Manchalwar, Associate Professor, DCE, GRIET | Internal Member |
| 11. Dr K Srikanth, Associate Professor, DCE, GRIET | Internal Member |
| 12. Dr O S D Hima Bindu, Associate Professor, DCE, GRIET | Internal Member |
| 13. Mr T Srikanth, Associate Professor, DCE, GRIET | Internal Member |
| 14. Dr R Raman Goud, Professor, DME, GRIET | Co-opted Member |
| 15. Mr Mohammed Azharuddin, PhD (Pursuing), IITH | Alumni |

Head of the department welcomed all members in BOS meeting and discussed the following points to be considered in the syllabus.

S.No	Actionable Items	Action to be Taken by
1	Changes in Syllabus: Hydrology and Water Resources Engineering: Stability Analysis on Earthen dams and listing of Software applications of WRE to be included in Unit V	Dr Mohammed Hussain
2	Changes in Syllabus: Traffic Engineering and Management: Level of Service concept, applications and significations are to be covered as per Highway Capacity Manual.	Mr T Srikanth
3	Changes in Syllabus: Ground Water: Case Studies using MODFLOW to be included in Unit V.	Dr Mohammed Hussain
4	Changes in Syllabus: Irrigation Management: Listing of Applications of Software in Irrigation management has to be included in Unit V.	Dr Mohammed Hussain
5	Changes in Syllabus: Engineering Materials for Sustainability: 1. Unit II has to be shifted to Unit V as Environmental management standards need to be considered after completing all concepts and Unit III, Unit IV, Unit V were arranged as Unit II, III and IV. 2. Procedures of EIA in India with reference to Construction Projects only to be included in Unit V. 3. Integrated Life Cycle design of Materials and Structures, Alternative construction method topics are to be removed from Unit IV.	Mr Y Kamala Raju
6	Changes in Syllabus: Environmental Engineering: 1. BIS for potable water to be covered in Unit I. 2. BIS for disposal of Industrial waste water are to be included in Unit IV. 3. Tertiary treatment of waste water, Principles and classification to be added in Unit V.	Dr O S D Hima Bindu
7	Changes in Syllabus: Geographic Information System and Science: QGIS Open software- Salient features in brief to be included in Unit I.	Mr Rathod Ravinder
8	Changes in Syllabus: GIS lab: 1. Watershed Analysis and Network Analysis are to be taught as Civil Engineering aspects. 2. Performing SQL queries on created Thematic maps is introduced as new Exercise.	Ms I Chandana

9	Changes in Syllabus: Environmental Impact Assessment and Life Cycle Analysis: Case Studies on EIA with reference to Indian Scenario has to be covered in unit V.	Dr K Srikanth
10	Changes in Syllabus: Design of Hydraulic structures: Design of Type II Aqueduct (under Tunnel) concept is to be removed from Unit V as it is in post graduate level.	Dr Mohammed Hussain
11	Changes in Syllabus: Urban Transportation and Planning: Applications of RS&GIS in corridor identification to be included in Unit V.	Mr T Srikanth
12	All the subjects must be included with Text Books and References separately with latest edition and year of Publication.	Mrs K Hemalatha






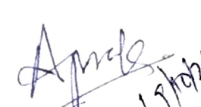

 BOS - Chairman



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)

Internal Minutes of meeting of the BOS for B. Tech Civil Engineering, Syllabus approval for III & IV- year GR20 Regulation of Gokaraju Rangaraju Institute of Engineering and Technology (Autonomous) held on 19th Oct 2021 in the Department of Civil Engineering, GRIET at 9:30AM.

Venue: Room No:4212, Seminar Hall, Civil Engineering Department.

S.No.	Name of the member	Position in the Current Engagements	Position in the BOS	Signature
Chairperson				
1	Dr C Lavanya	Professor & I/C HOD, Department of Civil Engineering, GRIET, Hyderabad	Chairman	 19/10/21
Members				
2	Dr V Srinivasa Reddy	Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 19/10
3	Dr T Srinivas	Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 19/10/21
4	Dr Atulkumar Anil Manchalwar	Associate Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 19/10/2021
6	Mr T Srikanth	Associate Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	
7	Mr Rathod Ravinder	Assistant Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 19/10/21
8	Mr A Prakash	Assistant Professor, Department of Civil Engineering, GRIET, Hyderabad	Internal Member	 19/10/21

The members of board of studies during the meeting held on 19th October 2021 in the department of Civil Engineering, after having discussed thoroughly, drew the following recommendations for III and IV years of GR20:

1. All the subjects must be included with Pre-Requisites and action verbs in Course objectives, Course outcomes as per Blooms Taxonomy levels.
2. In GIS lab – Exercises were framed in brief as follows
 - i) Demonstrating the concept of Labeling in GIS using Quantum GIS.
 - ii) Demonstrating the concept of Symbolism in GIS using Quantum GIS.
 - iii) Creation of point features Maps using Toposheets
 - iv) Creation of Line features Maps using Toposheets
 - v) Creation of polygon features Maps using Toposheets
 - vi) Creation of thematic maps for a region of interest
 - vii) Identify the demographic study using attribute tool
 - viii) Preparation of contour maps, flow accumulation maps from Digital Elevation model maps
 - ix) GIS applications in various civil engineering aspects
3. In Environmental Engineering lab – Exercises are Reframed as follows
 - i) Determination of Chlorides and iron were combined as single exercise because of the unique Titration methods.
 - ii) Determination of Dissolved Oxygen and B.O.D were merged as single experiment as performing BOD test is continuity to DO.
 - iii) Determination of Nitrogen and total Phosphorous were combined.
4. In Construction Project Planning and Systems, Unit I and Unit II are reframed as per the discussions.


19/10/21
BOS-Chairman



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Autonomous)
DEPARTMENT OF CIVIL ENGINEERING
Comparison of syllabus

S.No	Name of the Course	GR18 to GR20 (As per AICTE)
1	New Courses	Irrigation management and Tall Buildings are introduced as new courses in Professional Elective I & Professional Elective III
2	Professional electives and open electives	Six professional electives starting from III yr I sem and three open electives starting from III yr I sem
3	Structural Engineering thread	Structural Analysis II, Masonry Structures, Bridge Engineering, Industrial Structures, Prestressed Concrete, Earthquake Engineering
4	Geotechnical and Transportation Engineering thread	Traffic Engineering and Management, Rock Mechanics, Ground Improvement Techniques, Geometric Design of Highways, Pavement Design, Urban Transportation Planning
5	Environmental and Hydrology Engineering thread	Groundwater, Open Channel flow, Surface Hydrology, Physico-Chemical Processes for Water and Wastewater Treatment, Design of hydraulic structures, Green Building Technology
6	Construction Technology & Management thread	Irrigation Management, Construction Equipment & Automation, Tall Buildings, Rehabilitation & Retrofitting of Structures, Construction Project Planning & Systems, Pavement Materials


BOS-Chairman