



## GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY

UGC Autonomous Institution

Accredited by NAAC, Approved by AICTE and affiliated to JNTUH

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## DEPARTMENT OF CIVIL ENGINEERING

# PRAGATHI

Newsletter: Volume5, Issue1  
July – December 2020



**G.R. Ravinder Reddy**  
Chairman



**Dr. Uday Kumar Susarla**  
Principal



### Message from Head of the Department



**Dr. R. Prasanna Kumar**  
Professor & Head

I am very happy to bring out the fifth volume, first issue Department Newsletter "PRAGATHI". During this period many of our students have actively participated in various extracurricular and co-curricular activities inside and outside the college and many of them won prizes bringing laurels to the department. A one-week faculty development program was organized by the department in association with our industry partner LSB ternity Infra private limited during the month of July 2020. Eminent speakers from across reputed academic institutions and industry have contributed as resource persons. The Program was attended by more than 200 participants from different parts of the country. A few of our faculty also contributed as resource persons for other institutions. Many of the faculty members have participated in various online FDPs and webinars for updating their knowledge.

### ★ What's Inside ★

- ✦ Vision
- ✦ Mission
- ✦ PEO's and PSO's of the Department
- I. *Publications by faculty*
- II. *Academic toppers*
- III. *Faculty Achievements/Awards*
- IV. *Student participation & achievements*
- V. *FDP's/Workshops/Conferences/ Webinars participated by faculty*
- VI. *Expert lectures / FDP's organized by the department*
- VII. *Activities in the department/Institute Level*



### Editorial

Chief Editor: Dr. R. Prasanna Kumar, HoD, CED  
Associate Editor: G. Raju, Asst. Prof., CED  
Editor: K. Durga, Asst. Prof., CED

## ***Vision of the department***

The Civil Engineering Department is committed to excellence, quality, and sustained growth while offering our students an outstanding and rigorous education in an environment that supports intellectual growth while meeting 21st century demands.

## ***Mission of the department***

1. To provide high-quality educational experience for students in the field of Civil Engineering with strong emphasis on professional ethics, social and environmental responsibilities.
2. To provide infrastructure and facilities to meet the latest technological requirements.
3. To provide research opportunities for faculty and students.
4. To have a continuous interaction with Industry with an emphasis on R and D.
5. To produce engineers capable of critical thinking, devoted to lifelong learning, and highly sought after by employers.

## ***Program Educational Objectives (PEOs)***

Program Educational Objectives (PEOs) are broad statements that describe the career and professional accomplishments that the program is preparing the graduates to achieve within three to five years of graduation. The PEOs for Civil Engineering program are:

**PEO 1:** Graduates will be technically adept in mathematical, scientific, and engineering fundamentals to pursue their chosen profession or pursue advanced studies with a commitment to lifelong learning for professional development.

**PEO 2:** Graduates will be able to apply problem-solving skills to various engineering problems that involve management of medium-sized projects to large-scale projects using modern equipment or systems, and work on multidisciplinary projects in multicultural environment demonstrating interpersonal skills.

**PEO 3:** Graduates will exhibit creativity, innovation, and professional ethics with leadership qualities towards societal development.

## ***Program Specific Outcomes (PSOs)***

**PSO 1:** Apply knowledge in core areas of Civil Engineering such as Structural, Geotechnical, Water Resources, Transportation and Environmental Engineering to Civil Engineering practice.

**PSO 2:** Utilize Civil Engineering principles that are appropriate to produce detailed drawings, design reports, quantity and cost estimates, specifications, contracts and other documents appropriate for the design, construction, operations and maintenance of Civil Engineering projects.




**PSO 3:** Shall interact and collaborate with stakeholders; execute quality construction works applying Civil Engineering tools namely, Total Station, Global Positioning System (GPS), ArcGIS, AutoCAD, STAAD and other necessary tools.

## I. Publications by faculty

S. No.	Faculty Name	Title of Paper	Details
1.	<b>Dr. R. Prasanna Kumar</b> Professor	Behavior of pedestrians at mid-block while crossing the road and recommendation for providing exclusive pedestrian phase (Epp) at those locations	Solid State Technology, ISSN, 0038-111x, November 2020 SCOPUS Indexed
2.	<b>Dr. P. Harsha Praneeth</b> Associate Professor	Visualization and quantification of aggregate and fiber in self-compacting concrete using computed tomography for wedge splitting test	Archives of Civil and mechanical Engineering, 20:139, SPRINGER October 2020
3.	<b>i. G. Sampath Kumar</b> Assistant Professor <b>ii. D. Varun Kumar</b> Assistant Professor	Strength Properties of FRC Using Glass Fibre and Polypropylene	European Journal, ISSN 2515-8260, December 2020, SCOPUS Indexed
4.	<b>D. Ramachander</b> Assistant Professor	Dynamic Analysis of soft storied structure	Solid State Technology, ISSN 0038-111x, December 2020 SCOPUS Indexed

## II. Academic Toppers

The students who topped the results of B. Tech. II -Semester during the academic year 2019-20 are given below.

	I-Year	II-Year	III-Year	IV-Year
<b>1<sup>st</sup> Rank</b>	 <b>CH. SANJAY</b> 19R11A0109 SGPA- 9.15	 <b>MEKALA VARSHA</b> 18R11A0197 SGPA- 8.95	 <b>R. KALYANI</b> 17R11A0136 SGPA- 9.04	 <b>I. V K REVANTH NAIDU</b> 16R11A01B0 SGPA- 9.63
<b>2<sup>nd</sup> Rank</b>	 <b>J. ARUN REDDY</b> 19R11A0126 SGPA- 8.85	 <b>V J ELIZABATH RANI</b> 18R11A01B5 SGPA- 8.90	 <b>A. VIJAY KUMAR</b> 17R11A0150 SGPA- 8.79	 <b>CH RAMYA TEJA</b> 16R11A0157 SGPA- 9.58
<b>3<sup>rd</sup> Rank</b>	 <b>D. PREETHI</b> 18R11A0114 SGPA- 8.45	 <b>G. SHRUTHI</b> 18R110119 SGPA- 8.70	 <b>N. SPANDANA</b> 17R11A0131 SGPA- 8.04	 <b>C VEDA MITHRA</b> 16R11A0158 SGPA- 9.25

### III. Faculty Achievements/Awards



1. **Dr. R. Prasanna Kumar**, Professor has acted as a resource person for an International webinar on **“Pavement material quality and testing”** held 2<sup>nd</sup> July 2020 at Pallavi Engineering college, Hyderabad.



2. **K. Priyanka**, Assistant professor has delivered a lecture on **“Healthy practices for Student life”** held on 26th November 2020 at Guru Nanak Institute of Technology, Hyderabad.



3. **D. Varun Kumar**, Assistant professor has delivered a lecture on **“Career opportunities in Civil Engineering”** held on 25th November 2020 at Guru Nanak Institute of Technology, Hyderabad.



4. **V. Abdul Raffi**, Associate professor was awarded **Elite + Gold** for successful completion of **“Geotechnical Engineering Laboratory”** course (4-week online course: Sep-Oct 2020) on NPTEL with a consolidated score of **94%** and secured top position.



5. **V. Abdul Raffi**, Associate professor was awarded **Elite + Gold** for successful completion of **“Soil Mechanics/Geotechnical Engineering I”** course (12-week online course: Sep-Oct 2020) on NPTEL with a consolidated score of **94%** and secured top position.



6. **S. Goutham**, Assistant professor was awarded **Elite + Silver** for successful completion of **“Geotechnical Engineering Laboratory”** course (4-week online course: Sep-Oct 2020) on NPTEL with a consolidated score of **86%**.



### IV. Student participation & achievements

S. No.	Student Name	Event Name with Date	Place/College	Remarks
1	Bhagvan Feroz 19R15A0112	Strength of Material Online Quiz 28.07.2020	Visvesvaraya College of Engineering & Technology	-
2	Y. Mahender 18R11A01B7	Model Exhibition 12.03.2020	GCET	II-Prize
3	Y. Mahender 18R11A01B7	Maintenance of Online Classes for GCET (6 Months)	GCET	-
4	V. Pallavi Reddy 18R11A01B6	Challenges and Opportunities in Civil Engineering 11.06.2020	Vaageshwari College Engineering & Technology, Karimnagar	-
5	V. Pallavi Reddy 18R11A01B6	Formwork Design & Safety Aspect- Webinar 22.05.2020 to 26.05.2020	College of Engineering Pune	-
6	V. Pallavi Reddy 18R11A01B6	Online Quiz on Basic Physics July 2020	Khammam Institute of Technology & Sciences	-
7	S. Likhitha Rao 17R11A0139	Online Quiz on Building Materials, Project Planning & Management 03.06.2020	Welfare Institute of Science & Technology, A.P.	-
8	S. Likhitha Rao 17R11A0139	Genius 2.0, Online Aptitude Contest 13.06.2020	IEEE Computer Society, GCET	-
9	Nari Vivek 17R11A0132	Web Development Program on Progate 09.08.2020	Web Development Program on Progate, Hyderabad.	-
10	Nari Vivek 17R11A0132	R Programming 24.07.2020	Coursera	-
11	Nari Vivek 17R11A0132	Quiz on R Programming 22.08.2020	IEEE Student Branch, NSAKCET	-
15	Dasari Bhargava 17R11A0158	Scavenger Hunt 13.03.2020	VIBGYOR- GCET	I- Prize
16	V.J. Elizabeth Rani 18R11A01B5	Auto CAD Online Quiz 25.05.2020-30.05.2020	Malineni Perumallu Educational Society, Guntur	-
17	V.J. Elizabeth Rani 18R11A01B5	Online Quiz July 2020	Nagpur Institute of Technology	-

18	V.J. Elizabeth Rani 18R11A01B5	Online Quiz on Surveying & Transportation Engineering 25.05.2020	Aravali Institute of Technology Studies, Udaipur	-
20	V.J. Elizabeth Rani 18R11A01B5	Online Quiz 21.05.2020	Sinhgad College of Engineering, Pune	-
21	V.J. Elizabeth Rani 18R11A01B5	Webinar on “Interest & Time Value of Money in Construction” 16.05.2020	East West Institute of Technology, Bengaluru-91	-
22	V.J. Elizabeth Rani 18R11A01B5	Webinar on Handling, Management and Recycling of Bio Medical Waste 04.07.2020	Vignan Bharathi Institute of Technology	-
23	V.J. Elizabeth Rani 18R11A01B5	“Being Employable: Construction Industry Perspective” 18.05.2020	Indian Concrete Institute, Bangalore	-
24	V.J. Elizabeth Rani 18R11A01B5	International Webinar on Health Monitoring Service Life Prediction, Repair and Rehabilitation of Structures 08.05.2020 to 10.05.2020	Central Road Research Institute, New Delhi	-
25	V.J. Elizabeth Rani 18R11A01B5	Formwork Design and Safety Aspect 22.05.2020 to 26.05.2020	College of Engineering, Pune	-
26	Varsha Mekala 18R11A0197	“Being Employable: Construction Industry Perspective” 18.05.2020	Indian Concrete Institute, Bangalore	-
27	Varsha Mekala 18R11A0197	International Webinar on Health Monitoring, Service Life Prediction, Repair and Rehabilitation of Structures 08.05.2020 to 10.05.2020	Central Road Research Institute, New Delhi	-
28	Anish Kormatha 18R11A0187	International Webinar on Health Monitoring, Service Life Prediction, Repair and Rehabilitation of Structures 08.05.2020 to 10.05.2020	Central Road Research Institute, New Delhi	-
29	Anish Kormatha 18R11A0187	“Being Employable: Construction Industry Perspective” 18.05.2020	Indian Concrete Institute, Bangalore	-
30	Pallavi Reddy Vusike 18R11A01B6	Webinar on “Challenges and Opportunities” 11.06.2020	Vaageswari College of Engineering	-
31	Pallavi Reddy Vusike 18R11A01B6	Formwork Design and Safety Aspect 22.05.2020 to 26.05.2020	College of Engineering, Pune	-
32	M. Rakesh Reddy 18R11A0134	Measure the Treasure	Bhaswara- 2020, GCET 13.03.2020	I -Prize

33	M. Sampath 18R11A0136	Measure the Treasure	Bhaswara- 2020, GCET	I -Prize
35	M. Jayanth 16R11A0148	Study the structure	Bhaswara- 2020, GCET	I -Prize
36	MA.Sohail 16R11A128	Study the structure	Bhaswara- 2020, GCET	I -Prize
37	Vamsi Mohan 17R11A0187	Puzzle Hunt	Bhaswara- 2020, GCET	II –Prize
38	MD. Sadhik 17R11A0127	Puzzle Hunt	Bhaswara- 2020, GCET	I –Prize
39	A. Vamshi 17R11A0104	Puzzle Hunt	Bhaswara- 2020, GCET	I –Prize
41	M. Sampath 18R11A0136	Model Exhibition	Bhaswara- 2020, GCET	I –Prize
42	K. Sanketh Raj 18R11A0162	Model Exhibition	Bhaswara- 2020, GCET	I –Prize
44	K. Anish 18R11A0187	Model Exhibition	Bhaswara- 2020, GCET	II –Prize
45	M. Varsha 18R11A0197	Model Exhibition	Bhaswara- 2020, GCET	II –Prize
46	K. Sai Kiran 19R15A0109	Model Exhibition	Bhaswara- 2020, GCET	II –Prize
47	A. Sri Charan 17R11A0105	Poster Presentation	Bhaswara- 2020, GCET	I –Prize
48	V.Sai Pallav 17R11A0196	Poster Presentation	Bhaswara- 2020, GCET	II –Prize
49	A. Vijay Kumar 17R11A0150	Poster Presentation	Bhaswara- 2020, GCET	II –Prize
51	Vineela 17R11A0121	Paper Presentation	Bhaswara- 2020, GCET	-
52	Mahalaxmi 18R150A0104	Paper Presentation	Bhaswara- 2020, GCET	-
56	Ch. Kalyani 17R11A0109	Paper Presentation	Bhaswara- 2020, GCET	-
57	Spandana Reddy 17R11A0131	Paper Presentation	Bhaswara- 2020, GCET	-
60	V. Rishikesh 18R15A0110	CADATHON	Bhaswara- 2020, GCET	I- Prize
61	Ch. Mani Krishna Reddy 16R11A01A8	CADATHON	Bhaswara- 2020, GCET	II- Prize

## V. FDP's/Workshops/Conferences/Webinars participated by faculty

S. No.	Name of the Faculty	Duration of Workshop	Topic	Organized by
1.	<i>Dr. R. Prasanna Kumar</i>	<i>27.07.2020 to 01.08.2020</i>	<i>Faculty Development Program Emerging Tools for Design and Analysis of Sustainable Roads</i>	<i>V N R VignanaJyothi Institute of Engineering and Technology</i>
2.	<i>Dr. R. Prasanna Kumar</i>	<i>07.08.2020</i>	<i>Webinar Perpetual Pavements for Sustainable Infrastructure</i>	<i>M V S R Engineering College, Hyderabad</i>
3.	<i>S. Hari Kiran</i>	<i>Nearly 10 hours so far.</i>	<i>Refresher Course NPTEL Videos on Water resources Engineering</i>	<i>NPTEL</i>
4.	<i>D Divya Vani</i>	<i>10-08-2020</i>	<i>Workshop Construction projects management with innovative tools &amp; techniques</i>	<i>SRM institute of science &amp; technology</i>
5.	<i>D Divya Vani</i>	<i>27-08-2020, 28-08-2020, 29-08-2020</i>	<i>Faculty Development Program Sustainable Engineering</i>	<i>Sri Vidyanikethan Engineering College</i>
6.	<i>B. Kowshik Reddy</i>	<i>27-Aug-2020</i>	<i>Webinar IGBC-Green guidelines for fast track and Emergency facilities treating COVID-19 patients</i>	<i>IGBC</i>
7.	<i>V. Navodaya</i>	<i>27-29 August 2020</i>	<i>Faculty Development Program Sustainable Structure</i>	<i>Vidyanekethan Engineering college,</i>
8.	<i>V. Navodaya</i>	<i>17-22 August 2020</i>	<i>Faculty Development Program online training program on flexible pavements</i>	<i>Vignan Barathi College</i>
9.	<i>V. Navodaya</i>	<i>10-11 August 2020</i>	<i>Faculty Development Program Indo-Australian workshop</i>	<i>SRM College</i>
10.	<i>V. Navodaya</i>	<i>10-11 August 2020</i>	<i>Faculty Development Program PARACOS</i>	<i>Vignan Barathi College</i>
11.	<i>V. Navodaya</i>	<i>5-7 August 2020</i>	<i>Faculty Development Program Construction demolition waste</i>	<i>Vignan Bharthi College</i>
12.	<i>V. Anusha</i>	<i>3-7 August, 2020</i>	<i>Faculty Development Program Research Advances in Civil Engineering</i>	<i>Mahatma Gandhi Institute of Technology (MGIT)</i>
13.	<i>V. Anusha</i>	<i>27-29 August, 2020</i>	<i>Faculty Development Program Sustainable Engineering (SE)</i>	<i>SreeVidyanikethan Engineering College (Autonomous), Tirupati.</i>
14.	<i>G. Raju</i>	<i>27-29 August, 2020</i>	<i>Faculty Development Program Sustainable Engineering (SE)</i>	<i>Sree Vidyanikethan Engineering College (Autonomous), Tirupati.</i>
15.	<i>G. Raju</i>	<i>10.08.2020</i>	<i>Faculty Development Program Construction projects management with innovative tools and techniques</i>	<i>SRM Institute of science and technology</i>



16.	<i>G. Raju</i>	<i>24-29th August, 2020</i>	<i>Faculty Development Program Recent Advances in Forensic Analysis of sub and super structures- Transportation Engineering Phase II</i>	<i>Velagapudi Ramakrishna Siddhartha Engineering College (autonomous)</i>
17.	<i>G. Raju</i>	<i>26-28th August 2020</i>	<i>Faculty Development Program Pre-Fab Technology and BIM in Civil Engineering</i>	<i>Mahaveer Institute of Science &amp;Technology in association with Build Next Infra Con Pvt. Ltd</i>
18.	<i>P. Supriya</i>	<i>10.08.2020</i>	<i>Faculty Development Program Construction projects management with innovative tools and techniques</i>	<i>SRM Institute of science &amp; Technology</i>
19.	<i>P. Supriya</i>	<i>17.08.2020</i>	<i>Faculty Development Program Signature Bridge at Delhi, planning and design.</i>	<i>Qcrete ready-mix (India) Pvt Ltd</i>
20.	<i>P. Supriya</i>	<i>26.08.2020 to 28.08.2020</i>	<i>Faculty Development Program Prefab technology and BIM in civil Engineering</i>	<i>Mahaveer Institute of science and Technology</i>
21.	<i>P. Supriya</i>	<i>27.08.2020 to 29.08.2020</i>	<i>Faculty Development Program Sustainable Engineering</i>	<i>Sree Vidyanikethan Engineering College (autonomous)</i>
22.	<i>D. Ramachander</i>	<i>27-29 August, 2020</i>	<i>Faculty Development Program Sustainable Engineering (SE)</i>	<i>Sree Vidyanikethan Engineering College (Autonomous), Tirupati.</i>
23.	<i>D. Ramachander</i>	<i>26-28 August 2020</i>	<i>Faculty Development Program Pre-Fab Technology and BIM in Civil Engineering</i>	<i>Mahaveer Institute of Science &amp;Technology in association with BuildNext Infra Con Pvt. Ltd</i>
24.	<i>D. Ramachander</i>	<i>24-29 August 2020</i>	<i>One week Online Short-Term Training Program Recent Advances in Forensic Analysis of Sub and Super Structures- Transportation Engineering Phrase II</i>	<i>Velagapudi Ramakrishna Siddhartha Engineering College, Autonomous</i>
25.	<i>S. Gowtham</i>	<i>24-29 August 2020</i>	<i>One week Online Short-Term Training Program Recent Advances in Forensic Analysis of Sub and Super Structures- Transportation Engineering Phrase II</i>	<i>Velagapudi Ramakrishna Siddhartha Engineering College, Autonomous</i>
26.	<i>S. Gowtham</i>	<i>03-08-2020</i>	<i>A hands-on training on virtual laboratory (Civil Experiments) (STTP)</i>	<i>Ramco Institute of Technology, Rajayapalem</i>
27.	<i>Dr. R. Prasanna Kumar</i>	<i>07.09.2020 to 11.09.2020</i>	<i>Faculty Development Programme Recent Developments in Cement Concrete Pavements</i>	<i>IIIT, RK Valle, Kadapa</i>

28.	<i>Dr. P. Harsha Praneeth</i>	<i>15.9.2020</i>	<i>Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>
29.	<i>G. Raju</i>	<i>15.9.2020</i>	<i>Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>
30.	<i>G. Raju</i>	<i>19.09.2020</i>	<i>Webinar Career Opportunities in Transportation Engineering</i>	<i>Jaypee University-Guna-India</i>
31.	<i>G. Raju</i>	<i>21.0.9.2020 to 25.09.2020</i>	<i>Faculty Development Programme Sustainable Materials for Smart Cities: Challenges and Recent Trends (SMS: CRT)</i>	<i>SR Engineering College, Warangal</i>
32.	<i>G. Raju</i>	<i>29.09.2020</i>	<i>Webinar Challenges and case studies in Geotechnical Engineering</i>	<i>B V Raju Institute of Technology, Hyderabad</i>
33.	<i>G. Raju</i>	<i>21.09.2020</i>	<i>Online panel Discussion Making Mentoring Relevant: NEP2020 Perspective</i>	<i>NITTTR Bhopal</i>
34.	<i>K. Divya</i>	<i>07.09.2020</i>	<i>Short term training program (Phase III) Multi-criterion Decision Making in WRE</i>	<i>Shri Vishnu Engineering College for Women</i>
35.	<i>K. Divya</i>	<i>10.08.2020 - 21.09.2020</i>	<i>Orientation course Financial Modelling and Valuation</i>	<i>Internshala trainings</i>
36.	<i>K. Divya</i>	<i>04.09.2020</i>	<i>Webinar Designing Water Distribution &amp; Sewer Networks Using WaterGEMS &amp; SewerGEMS</i>	<i>Capricot technologies</i>
37.	<i>S. Hari Kiran</i>	<i>15.9.2020</i>	<i>Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>
38.	<i>S. Hari Kiran</i>	<i>21.0.9.2020 to 25.09.2020</i>	<i>Faculty Development Program Waste Technology</i>	<i>Giani Zail Singh Campus college of Engineering and technology MRSPTU Bathinda - Punjab</i>
39.	<i>S. Hari Kiran</i>	<i>29.09.2020</i>	<i>Webinar Challenges and case studies in Geotechnical Engineering</i>	<i>B V Raju Institute of Technology, Hyderabad</i>
40.	<i>D. Ramachander</i>	<i>21.9.2020 to 26-9-2020</i>	<i>Faculty Development Program Architectural design using Sketch up</i>	<i>ICT ACADEMY</i>
41.	<i>D. Ramachander</i>	<i>15.9.2020</i>	<i>Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>

42.	<i>D. Ramachander</i>	<i>21.09.2020</i>	<i>Online panel Discussion Making Mentoring Relevant: NEP2020 Perspective</i>	<i>NITTTR Bhopal</i>
43.	<i>D. Ramachander</i>	<i>29.09.2020</i>	<i>Webinar Challenges and case studies in Geotechnical Engineering</i>	<i>B V Raju Institute of Technology, Hyderabad</i>
44.	<i>S. Gowtham</i>	<i>03.09.2020</i>	<i>Webinar Use of LSM, Virtual teaching and OBE software for Engineering colleges</i>	<i>Ramco Institute of Technology, Rajapalayam</i>
45.	<i>S. Gowtham</i>	<i>15.09.2020</i>	<i>Webinar Civil Engineering and Construction challenges in present scenario</i>	<i>Andhra University &amp; NIDM (New Delhi)</i>
46.	<i>S. Gowtham</i>	<i>15.09.2020</i>	<i>Webinar Multi-disciplinary approach to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>
47.	<i>S. Gowtham</i>	<i>19.09.2020</i>	<i>Webinar Common mistakes we do with concrete</i>	<i>CVR college of Engineering, Hyderabad</i>
48.	<i>S. Gowtham</i>	<i>19.09.2020</i>	<i>Webinar Career opportunities in Transportation Engineering</i>	<i>JUET,Guna</i>
49.	<i>S. Gowtham</i>	<i>26.09.2020</i>	<i>Webinar Role of youth in National Building during covid-19</i>	<i>NSS, GCET, Hyderabad</i>
50.	<i>S. Gowtham</i>	<i>29.09.2020</i>	<i>Webinar Challenges and case studies in Geotechnical Engineering</i>	<i>B V Raju Institute of Technology, Hyderabad</i>
51.	<i>K. Priyanka</i>	<i>15.9.2020</i>	<i>Webinar civil engineering construction challenges in present scenario</i>	<i>Andhra University Visakhapatnam</i>
52.	<i>K. Priyanka</i>	<i>15.9.2020</i>	<i>Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>
53.	<i>K. Priyanka</i>	<i>25.9.2020 to 26.09.20</i>	<i>Two-day National level online workshop technological advancements in geotechnical engineering practice with geosynthetics</i>	<i>Sree vidhyaniketan engineering college tirupati</i>
54.	<i>K. Priyanka</i>	<i>26.09.2020</i>	<i>Webinar Role of youth in National Building during covid-19</i>	<i>NSS, GCET, Hyderabad</i>
55.	<i>K. Priyanka</i>	<i>29.09.2020</i>	<i>webinar Challenges and case studies in Geotechnical Engineering</i>	<i>B V Raju Institute of Technology, Hyderabad</i>
56.	<i>D. Divya Vani</i>	<i>15.9.2020</i>	<i>Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>

57.	<i>D. Divya Vani</i>	<i>19.09.2020</i>	<i>Webinar Common mistakes we do with concrete</i>	<i>CVR college of Engineering, Hyderabad</i>
58.	<i>D. Divya Vani</i>	<i>21.0.9.2020 to 25.09.2020</i>	<i>Faculty Development Program Design Thinking</i>	<i>K. K. Wagh Institute of Engineering Education and Research, Panchvati, Nashik</i>
59.	<i>B. Kowshik Reddy</i>	<i>09-09-2020 to 13-09-2020</i>	<i>International Professional Development Sustainable Practices and Advances in Civil Engineering (SPACE-2020)</i>	<i>CBIT, Hyderabad</i>
60.	<i>V. Abdul Raffi</i>	<i>4 weeks</i>	<i>NPTEL Soil Mechanics laboratory</i>	<i>IIT, Bombay</i>
61.	<i>V. Abdul Raffi</i>	<i>12 weeks</i>	<i>NPTEL Soil Mechanics</i>	<i>IIT, Khargpur</i>
62.	<i>G Sampath Kumar</i>	<i>15.9.2020</i>	<i>Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>
63.	<i>G Sampath Kumar</i>	<i>21.0.9.2020 to 25.09.2020</i>	<i>Faculty Development Programme Design Thinking</i>	<i>MUTHAYAMMAL ENGINEERING COLLEGE(AUTONOMOUS), Rasipuram, Namakkal, Tamilnadu.</i>
64.	<i>D Varun Kumar</i>	<i>15.9.2020</i>	<i>Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering</i>	<i>GCET, Hyderabad</i>
65.	<i>D Varun Kumar</i>	<i>21.0.9.2020 to 25.09.2020</i>	<i>Faculty Development Programme Smart cities</i>	<i>S R Engineering College, Warangal</i>
66.	<i>D Varun Kumar</i>	<i>26.09.2020</i>	<i>Webinar Role of youth in Nation Building during covid-19</i>	<i>NSS, GCET, Hyderabad</i>
67.	<i>V. Anusha</i>	<i>03.09.2020</i>	<i>Webinar Uses of LMS, Virtual teaching and OBE software for Engineering colleges</i>	<i>vmedulife software servuces</i>
68.	<i>V. Anusha</i>	<i>07-09-2020 to 12-09-2020</i>	<i>Faculty Development Programme Soft Computing Techniques in Civil Engineering: Structures, Water Resources, Geotechnical, Remote Sensing and Transportation Applications</i>	<i>SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN (AUTONOMOUS), Andhra Pradesh</i>
69.	<i>V. Anusha</i>	<i>15.09.2020</i>	<i>Webinar "Civil Engineering and Construction Challenges in Present Scenario</i>	<i>A.U. COLLEGE OF ENGINEERING (Autonomous) Andhra University, Visakhapatnam</i>

70.	V. Navodaya	21.09.2029 to 25.09.2029	Faculty Development Program Design Thinking	MUTHAYAMMAL ENGINEERING COLLEGE(AUTONOMOUS),Rasipuram, Namakkal, Tamilnadu.
71.	V. Navodaya	29.09.2020	Webinar Challenges and case studies in Geotechnical Engineering	B V Raju Institute of Technology, Hyderabad
72.	V. Navodaya	19.09.2020	Webinar Common mistake we do with concrete	CVR College of Engineering, Hyderabad
73.	S. Tirupati Rao	19.09.2020	Webinar CAREER OPPORTUNITIES INTRANSPORTATION ENGINEERING	JAYPEE UNIVERSITY- GUNA-INDIA
74.	S. Tirupati Rao	21.09.2029 to 25.09.2029	Faculty Development Program Infrastructure Engineering	NATIONAL INSTITUTE OF TECHNOLOGY KARANATAKA
75.	P. Supriya	03.08.2020 to 02.09.2020(5 weeks)	Online Course Mechanics of materials-III- Beam bending	Coursera-Georgia Institute of Technology
76.	P. Supriya	03.09.2020	Faculty Development Programme Use of LMS, Virtual teaching and OBE software for engineering colleges	vmedulife software services
77.	P. Supriya	15.9.2020	Webinar Multi-disciplinary approach for problems related to Geotechnical Engineering	GCET, Hyderabad
78.	P. Supriya	14.09.2020 to 18.09.2020	Faculty Development Programme Sustainable Engineering	NIT- Jamshedpur
79.	P. Supriya	21.09.2020 to 25.09.2020	Faculty Development Programme Sustainable Materials for Smart Cities: Challenges and Recent Trends (SMS: CRT)	SR Engineering College, Warangal
80.	P. Supriya	29.09.2020	Webinar Challenges and case studies in Geotechnical Engineering	B V Raju Institute of Technology, Hyderabad
81.	G. Raju	5 Week Course (Date of Completion: 01.10.2020)	Refresher Course Engineering Mechanics	Georgia Institute of Technology- Coursera
82.	G. Raju	26-10-2020 to 30-10-2020	Faculty Development Programme Design Thinking	Kirori Mal College University of Delhi
83.	G. Raju	Oct 17	Webinar Design Thinking and its implementation at Institute level	GCET

84.	<i>G. Raju</i>	<i>28-09-2020 to 31-10-2020</i>	<i>Faculty Development Programme C programming</i>	<i>GCET</i>
85.	<i>V. Navodaya</i>	<i>5-10-2020 to 10-10-2020</i>	<i>One-week short term training program Rigid pavements</i>	<i>VBIT</i>
86.	<i>V. Navodaya</i>	<i>19-10-2020 to 23-10-2020</i>	<i>Faculty Development Programme Solar Energy</i>	<i>Dr. Ambedkar National NIT Jalandhar</i>
87.	<i>V. Navodaya</i>	<i>14-10-2020</i>	<i>National Webinar Enhancement of irrigation water use efficiency for future food security</i>	<i>IIT Roorkee</i>
88.	<i>V. Navodaya</i>	<i>18-10-2020</i>	<i>One day National Webinar Recent practices in environmental engineering</i>	<i>Government College of Engineering, Kalahandi</i>
89.	<i>D. Ramachander</i>	<i>26-10-2020 to 30-10-.2020</i>	<i>Faculty Development Programme Design Thinking</i>	<i>Kirori Mal College University of Delhi</i>
90.	<i>D. Ramachander</i>	<i>28-09-2020 to 31-10-2020</i>	<i>Faculty Development Programme C programming</i>	<i>GCET</i>
91.	<i>S. Hari Kiran</i>	<i>October 3</i>	<i>National Webinar Benefits and implementation of ISO 50001-2018 by P. Prem Kumar</i>	<i>Industrial Waste Management association (IWWA)</i>
92.	<i>S. Hari Kiran</i>	<i>October 4</i>	<i>National Webinar Environmental Infrastructure Management</i>	<i>Engineering staff college of India (an autonomous organ of The Institution of Engineers, India), Gachibowli, Hyd</i>
93.	<i>S. Hari Kiran</i>	<i>October 6</i>	<i>Civil Tech Talks "Execution of Mega Civil Engineering Projects - A case study of Hyderabad Metro Rail" BY Mr. M.P. Naidu, Project director (Retd), L&amp;T Hyderabad Metro</i>	<i>TASK</i>
94.	<i>S. Hari Kiran</i>	<i>October 12 to October 17</i>	<i>Faculty Development Programme STTP on Disaster Mitigation and Management</i>	<i>KPR Institute of Engineering and Technology, Coimbatore.</i>
95.	<i>S. Hari Kiran</i>	<i>Oct 17</i>	<i>Webinar Design Thinking and its implementation at Institute level</i>	<i>GCET</i>
96.	<i>S. Hari Kiran</i>	<i>October 20</i>	<i>Webinar Intellectual Property Rights, drafting and claims</i>	<i>GCET</i>
97.	<i>S. Tirupati Rao</i>	<i>12-10-2020 to 16-10-2020</i>	<i>Faculty Development Program SMART CITIES</i>	<i>AICTE- ATAL</i>

98.	<i>K. Divya</i>	<i>Nearly 8 hours so far</i>	<i>Refresher Course Water Resources Engineering</i>	<i>NPTEL</i>
99.	<i>K. Divya</i>	<i>28-09-2020 to 31-10-2020</i>	<i>Faculty Development Programme C programming</i>	<i>GCET</i>
100.	<i>K. Divya</i>	<i>Oct 17</i>	<i>Webinar Design Thinking and its implementation at Institute level</i>	<i>GCET</i>
101.	<i>K. Divya</i>	<i>21-10-2020 to 25-10-2020</i>	<i>Faculty Development Programme Design Thinking</i>	<i>AICTE- ATAL</i>
102.	<i>S. Gowtham</i>	<i>14-9-2020 to 9-10-2020</i>	<i>Refresher Course NPTEL Course on Geotechnical Engineering Laboratory</i>	<i>NPTEL</i>
103.	<i>D Divya Vani</i>	<i>9 hours till date</i>	<i>Refresher Course Strength of Materials</i>	<i>NPTEL</i>
104.	<i>D Divya Vani</i>	<i>13-10-2020</i>	<i>National Webinar Role PSC and GGBS in sustainable concrete</i>	<i>QCrete Ready-mix India Pvt Ltd</i>
105.	<i>D Divya Vani</i>	<i>22-10-2020</i>	<i>National Webinar Influence of aggregates on properties of concrete</i>	<i>QCrete Ready-mix India Pvt Ltd</i>
106.	<i>G Sampath Kumar</i>	<i>28-09-2020 to 31-10-2020</i>	<i>Faculty Development Programme C programming</i>	<i>GCET</i>
107.	<i>K. Priyanka</i>	<i>Oct 17</i>	<i>Webinar Design Thinking and its implementation at Institute level</i>	<i>GCET</i>
108.	<i>K. Priyanka</i>	<i>Oct20</i>	<i>Webinar Intellectual Property Rights, drafting and claims</i>	<i>GCET</i>
109.	<i>K. Priyanka</i>	<i>Oct 10</i>	<i>Webinar Salient features of Kanaka Durga flyover</i>	<i>K.L university.</i>
110.	<i>K. Priyanka</i>	<i>Oct 2</i>	<i>Webinar piled raft foundation</i>	<i>IGS Guntur chapter</i>
111.	<i>K. Priyanka</i>	<i>Oct 2</i>	<i>Webinar Deep excavations -problems and solutions</i>	<i>IGS Guntur chapter</i>
112.	<i>B. Kowshik Reddy</i>	<i>29-31 Oct</i>	<i>Conference 18th Edition of IGBC Green Building Congress 2020 at CII Hive Virtual platform.</i>	<i>IGBC Chapter</i>
113.	<i>P. Supriya</i>	<i>28-09-2020 to 31-10-2020</i>	<i>FDP C programming</i>	<i>GCET</i>
114.	<i>D Varun Kumar</i>	<i>21/10/2020</i>	<i>Webinar Case Studies Depicting Sustainable Solutions to challenging Geotechnical problems.</i>	<i>PANDIT DEENDAYAL PETROLEUM UNIVERSITY.</i>
115.	<i>D Varun Kumar</i>	<i>25/09/2020 to 30/10/2020</i>	<i>FDP C programming</i>	<i>GCET</i>

116.	<i>D Varun Kumar</i>	<i>Oct 17</i>	<i>Webinar Design Thinking and its implementation at Institute level</i>	<i>GCET</i>
117.	<i>G. Raju</i>	<i>9.11.2020 to 20.11.2020</i>	<i>Faculty Development Program "Applications of Neuro-Fuzzy Techniques in Civil Engineering"</i>	<i>MVSR Engineering College, Hyderabad</i>
118.	<i>V. Navodaya</i>	<i>02.11.2020- 7.11.2020</i>	<i>Short term training program Bridge Engineering transportation planning, safety and management</i>	<i>AICTE</i>
119.	<i>V. Navodaya</i>	<i>23.11.2020- 27.11.2020</i>	<i>Faculty Development Program Advance technologies in water resource management</i>	<i>Government College of engineering, Aurangabad, Maharashtra</i>
120.	<i>S. Gowtham</i>	<i>02.11.2020 to 06.11.2020</i>	<i>Faculty Development Program Waste Technology</i>	<i>ATAL Academy / L.D.College of Engineering, Ahmedabad</i>
121.	<i>V. Abdul Raffi</i>	<i>Entire Month</i>	<i>NPTEL Geotechnical Engineering-1</i>	<i>GCET</i>
122.	<i>D. Ramachander</i>	<i>9.11.2020 to 20.11.2020</i>	<i>Faculty Development Program "Applications of Neuro-Fuzzy Techniques in Civil Engineering"</i>	<i>MVSR Engineering College, Hyderabad</i>
123.	<i>D Varun Kumar</i>	<i>9.11.2020 to 20.11.2021</i>	<i>Faculty Development Program "Applications of Neuro-Fuzzy Techniques in Civil Engineering"</i>	<i>MVSR Engineering College, Hyderabad</i>
124.	<i>D Varun Kumar</i>	<i>28.11.2020</i>	<i>Webinar STRUCTURAL RETROFITTING, REFURBISHMENT AND REHABILITATION</i>	<i>Jaypee University of Engineering and Technology, Guna</i>
125.	<i>P. Supriya</i>	<i>16.11.2020 to 21.11.2020</i>	<i>faculty development program Curriculum for sustainability</i>	<i>Velammal Engineering college(autonomou s)</i>
126.	<i>K. Priyanka</i>	<i>22.11.2020</i>	<i>webinar Educational content development by Open -source software</i>	<i>Mind map cub, RVR &amp;JC College of Engineering</i>
127.	<i>K. Priyanka</i>	<i>17.11. 2020</i>	<i>webinar Pavement management systems insights and challenges</i>	<i>ST. MARY'S Group of Institutions Guntur</i>
128.	<i>K. Priyanka</i>	<i>4.11. 2020</i>	<i>webinar Entrepreneurship and Innovation skills</i>	<i>GCET</i>
129.	<i>K. Priyanka</i>	<i>6.11. 2020</i>	<i>webinar Prof TS Nagaraj Memorial Lecture</i>	<i>IGS-Benguluru chapter</i>
130.	<i>V. Navodaya</i>	<i>30.11.2029 to 5.12.2020</i>	<i>Short term training program Nondestructive test methods phase -I</i>	<i>AICTE</i>



131.	V. Navodaya	7.12.2020 to 12.12.2020	Short term training program Nondestructive test methods Phase-II	AICTE
132.	K. Priyanka	24 Dec2020	webinar Interactions of Geo-Technology - Shallow Foundations - Auditing	IGS Bengaluru
133.	K. Priyanka	16 Dec 2020	workshop "Scour and Erosion"	ISSGE &IGS Visakhapatnam
134.	V. A. Raffi	17.12.2020	NPTEL Geotechnical Engineering	IITK
135.	V. A. Raffi	18.12.2020	NPTEL Geotechnical Engineering lab	IITB
136.	S. Gowtham	5.12.2020	Webinar Green & Sustainable Building Materials and Utilization of C&D Waste	Jaypee University of Engineering and Technology, Guna
137.	P. Supriya	17.12.2020 to 23.12.2020	FDP curriculum for sustainability- phase II	AICTE- Velammal Engineering college
138.	K. Divya	15.12.2020	Training program AutoCAD 3D for Infrastructure design	Autodesk - Coursera
139.	D Varun Kumar	24.12.2020	Webinar Post Tensioned slabs	GCET
140.	D Varun Kumar	21.12.2020 to 25.12.2020	Workshop Waste Technology	C.V. RAMAN GLOBAL UNIVERSITY, BHUBANESWAR

## VI. Expert lectures/FDP'S organized by the department

### Expert Lectures

S. No	Name of the Resource person	Designation and Organization	Date organized	Topic covered	Target Attendance
1	Mr. Nikhil	Managing Director, BIM grafX Academy	24-08-2020	Building Information Modelling	B. Tech CE 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> year students
2	Mr. Sandeep Bhandari	Deputy Managing Director, Time institute	28-08-2020	Changes, Challenges & Opportunities in GATE	B. Tech CE 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> year students
3	Er. Lokeshwar Reddy	Deputy General Manager, Utracon Structural Solution Pvt Ltd	24-12-2020	Post Tensioned Slabs	B. Tech CE 3 <sup>rd</sup> and 4 <sup>th</sup> year students

## Faculty Development Program

13-18  
July  
2020

A One Week Faculty Development Program on “*Recent Advances in Civil Engineering and Sustainable Infrastructure*” by Civil Engineering Department in association with LSB Temerity Infra Pvt. Ltd. was organized during 13<sup>th</sup> -18<sup>th</sup> of July 2020. The FDP was planned in different fields of Civil Engineering. This FDP helped the faculty members to acquire knowledge and redefine their horizons in recent advancements in Civil Engineering which require sustainable infrastructure construction. It was also helpful in enhancing teaching ability of faculty members with respect to sustainable development in Civil Engineering. It was successful with participants from national level.



**Mr. Shiva Rami Reddy,**  
Director, LSB Temerity Infra Pvt. Ltd., Hyderabad.  
Topic: **Glance on Pre-Engineered Buildings**



**Dr. (Ms).S.V.S.N.D.L. Prasanna,**  
Osmania University, Hyderabad.  
Topic: **Simulation Analysis and its application**



**Prof. Suribabu CR,**  
Associate Dean - Research,  
Sastra Deemed University, Tamilnadu  
Topic: **Reservoir Optimization**



**Dr. S. Bhuvaneshawri (IITM)**  
SRM University, Chennai, Tamilnadu  
Topic: **An Overview of Geotechnical and Geo Environmental aspects**



**Dr. P. V. Dilip Kumar (IITH)**  
Mahindra Ecole Centrale, Hyderabad.  
Topic: **Understanding Structural Health of India**



**Prof. Sridhar Raju**  
HoD CE, BITS Pilani, Hyderabad.  
Topic: **Indian Road Congress 37 -2018 Session-2**



**Prof. Sridhar Raju**  
HoD CE, BITS Pilani, Hyderabad.  
Topic: **Indian Road Congress 37 -2018 Session-1**



**CH. Santhosh Kumar**  
Civil Engineer-Quality Manager, STEDRANT Techno Pvt. Ltd. Hyderabad.  
Topic: **Non Destructive Test on Construction Materials**



**Dr. V. Venkata Ramayya**  
Professor, MGIT, Hyderabad.  
Topic: **Role of bitumen modification in construction of sustainable flexible pavements**



**Mr. Jagan Mohan Kummari,**  
Research Scholar, RMIT University, Australia  
Topic: **Seismic Performance & Damage Evaluation of Concrete Gravity Dams**

## VII. Activities in the department/Institute Level

### Orientation program:

The Freshers orientation program was organized through online mode on **19<sup>th</sup> November, 2020**. The major objective of the programme was to make the students and parents aware of the academic aspects of the course, the rules and regulations of the Institute and ensuring parental participation in monitoring the performance and progress of the students. The students were addressed and motivated by various eminent speakers from different organizations.

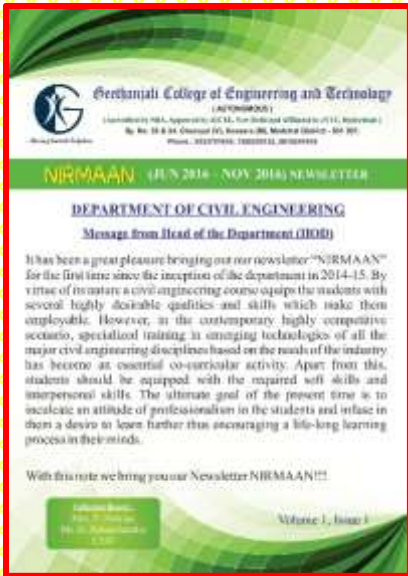
## Accelerated Bridge Construction (ABC) Technology for Bridge Construction

For major bridge and flyovers projects, introduction of Accelerated Bridge Construction (ABC) techniques involving use of new material, design process, construction procedure, high strength materials and new management methods is the need of the hour. These projects can be completed in much shorter duration. ABC technology uses innovative planning with designs, materials and construction methods in safer and cost-effective manner to reduce the site construction time. Use of high-performance concrete (both reinforced and prestressed), high strength steel and innovative joints can be used to accelerate the speed of construction. This technology should be considered for all bridges, flyovers or viaduct construction projects at locations with traffic congestion. Precast components for Culverts and Bridges are used world over for speedier execution of culvert and bridge works. Bridge components are produced in factory-controlled environment and then transported to site. Machinery required for transportation of precast box culverts/bridge components are now available in India.

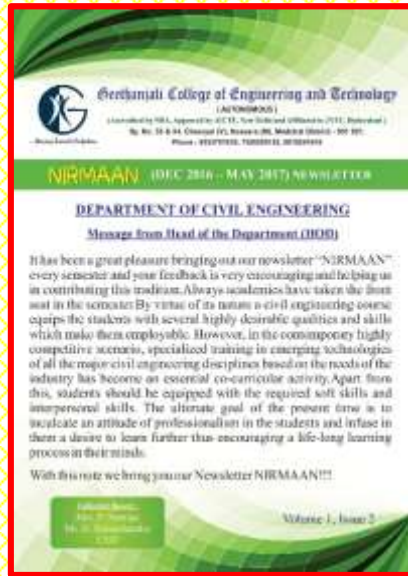
The cost of using Accelerated Bridge Construction is higher as compared to conventional bridge construction if only initial cost of construction is considered. ABC technology offers many other advantages of early completion, to avoid longer period of traffic jams and thereby less inconvenience to public and reduction in loss of working hours for public, better quality due to construction in factory-controlled environment etc. Thus, decision should be taken by clients considering overall life cycle cost rather than initial cost of construction alone to adopt such technology. The decision to use the ABC technology should be made by the Project Team in the beginning itself. Primary factors to consider are bridge site-conditions, traffic volume, detour routes and conditions, cost estimates and environmental impacts.



# Periodical Editions



Volume1, Issue1  
(June 2016 - Nov 2016)



Volume1, Issue2  
(Dec 2016 - May 2017)



Volume2, Issue1  
(July 2017 - Dec 2017)



Volume2, Issue2  
(Jan 2018 - June 2018)



Volume3, Issue1  
(July 2018 - Dec 2018)



Volume3, Issue2  
(Jan 2019 - July 2019)



Volume4, Issue1  
(July 2019 - Dec 2019)



Volume4, Issue2  
(Jan 2020 - June 2020)

