



SETHU INSTITUTE OF TECHNOLOGY

AN AUTONOMOUS INSTITUTION | ACCREDITED 'A' GRADE BY NAAC

Approved by AICTE, New Delhi & Permanently Affiliated to Anna University, Chennai

Recognized by UGC under Section 2(f) & 12(B) of UGC Act, 1956

Approved as Research Centres for Mech., CSE, ECE, EEE, Civil, Physics & Chemistry by Anna University, Chennai
Mech., CSE, ECE Accredited by NBA, New Delhi, (Tier-I) Washington Accord & EEE and IT Re-accredited by NBA, New Delhi

Pulloor - 626 115, Kariapatti Taluk. Virudhunagar District.

DEPARTMENT OF CIVIL ENGINEERING



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EDITORIAL BOARD

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Dean & HOD/Civil Engineering

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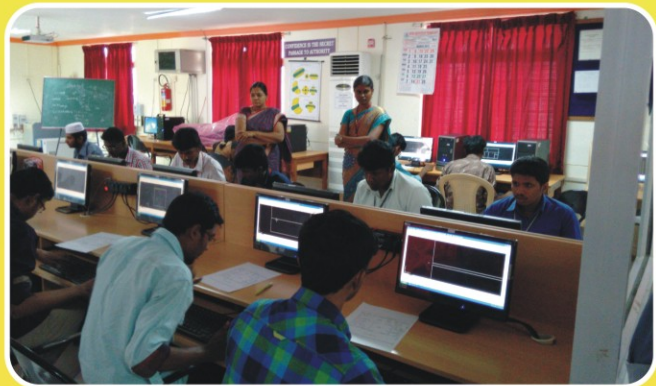
PROGRAMS ORGANISED

1. An Intra Departmental Students Technical Symposium **“RCC 2015”** organized by Civil Engineering Association of Sethu Institute of Technology (CEASIT) on 25th March 2015.
2. Release of CEASIT Newsletter 2015 on 25th March 2015.
3. Guest lecture on **“Modern surveying with civil 3D Software”** by Dr.S.Thomas Gnanadurai, Head of the Department , Department of Civil Engineering ,Arasan Ganesan Polytechnic College, Sivakasi on 13.03.2015
4. Workshop cum Championship on **“Bridge Design”** was organized on 3rd and 4th March 2015 in association with ARK Technosolutions and Helios,IIT Bombay.
5. Guest lecture on **“Engineering Body of Knowledge-Guiding Principles for Future Engineers of 2020”** by Prof.R.RajaYogan, Branch President, American Society for Civil Engineers, India Section-Southern Region on 04.02.2015.
6. Guest Lecture on **“Demo on Project Management and Primavera software”** by Er.Shahjahan , CADD Centre Madurai on 29.01.2015.
7. Guest Lecture on **“Applications of Primavera software”** by Mr.V.Kaviarasan , CADD Centre Madurai on 27.01.2015.
8. Guest Lecture on **“Career Opportunities in Interior Design”** by Mrs.K.R. Thangarajeswari ,Dream Zone, Madurai on 13.01.2015.
9. Guest Lecture on **“Demo on Revit Architecture & Staad Pro ”** by Mr.Thirupathiraja ,Hitec CNC software on 12.01.2015.
10. Guest Lecture on **“Current and Future trends of Interior Design”** by Mrs.K.R. Thangarajeswari ,Dream Zone, Madurai on 17.12.2014.
11. Guest Lecture on **“Role of Young Entrepreneurs in Competitive World - HR perspective”** by Mr.K.Rameshkumar,Manager, Ashok Leyland Deere on 20.10.2014.
12. Guest Lecture on **“How to create model using Staad pro V8i”** by Er.T.Ganesan ,CADD Centre, Madurai on 25.09.2014.
13. Guest Lecture on **“Structural Analysis & ANSYS”** by Er.Shahjahan , CADD Centre Madurai on 18.09.2014.
14. Guest Lecture on **“Civil Software courses Demo ”** by Mr.P.Saravanakumar ,Hitec CNC software on 04.09.2014.
15. Guest Lecture on **“Higher Education for Engineers ”** by Mr.P.Saravanakumar ,Hitec CNC software on 04.09.2014.
16. Guest Lecture on **“Interior and Architectural Design”** by Mrs.K.R. Thangarajeswari ,Dream Zone, Madurai on 05.08.2014.



**Release of CEASIT
Newsletter on 25.03.2015**

**CAD Contest for
RCC 2015**



**Code Cracking Contest for
RCC 2015**



**Model Making Contest
during RCC 2015**

**Paper Presentation in
RCC 2015**



Bridge Design Contest

Programs Organised



“Modern surveying with civil 3D Software” by **Dr.S.Thomas Gnanadurai**, Head of the Department, Department of Civil Engineering, Arasan Ganesan Polytechnic College, Sivakasi on 13.03.2015

Guest lecture on “Engineering Body of Knowledge-Guiding Principles for Future Engineers of 2020” by **Prof.R.RajaYogan**, Branch President, American Society for Civil Engineers, India Section-Southern Region on 04.02.2015.



Workshop cum Championship on “**Bridge Design**” organized on 3rd and 4th March 2015 in association with ARK Technosolutions and Helios, IIT Bombay.



Bridge Design Competition on 04.03.2015

Journals

1. **Dr.R.Kumutha, Dr.K.Vijai**, “Flexural Behaviour of Fibre reinforced geopolymer concrete composite beams” Computers and concrete(SI),ISSN 1598-8198,Volume 15,No.3(2015).
2. **Dr.R.Kumutha, Dr.K.Vijai**,”Effect of groundnut husk ash as fine aggregates in mortar, International Journal of Innovative Research in Science, Engineering and Technology ISSN:2319-8753 Volume 4, March 2015.
3. **Dr.R.Kumutha, Dr.K.Vijai**, “Properties of Paver blocks with Groundnut Husk Ash as Fine aggregates” International Research Journal of Engineering & Technology,Issn:2395-0056, Volume 2, Issue 2, May 2015.
4. **G.T.Kotteeswaran**,”Experimental Investigation on ternary blended cement mortar, International Journal of Research and Development Organization ISSN:3855-0514 Volume 2, ISSN-3855-0154 April 2015.
5. **G.T.Kotteeswaran**,”Investigation on concrete with E-plastic waste and micro silica”,International Journal of Applied Engineering Research,h ISSN 0973-4562 Volume 10 Number 19(2015).
6. **B.Shanmugavalli**,”A Study on effect of silica fume on the properties of recycled aggregate concrete, International Journal of Research and Development Organization ,ISSN:3855 -0154 Volume No 2.(25.03.2015)
7. **K.Pandesswari**,”Strength parameters of mortar and concrete with wood ash as a partial replacement of fine aggregate, International Journal of Applied Engineering Research ISSN 0973-4562 Volume No 10, Number 19(2015).
8. **A.Krishnamoorthy**,”Investigation on concrete using steel slag as a partial replacement of fine aggregate, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 10, Number 19 (2015).
9. **V.Anandhi** , “Experimental Investigation on PET fiber Reinforced concrete”,International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10,Number 19 (2015).
10. **M.Sathya**, “Assessment of Strength Characteristics in Concrete & Mortar incorporating Ceramic Waste for Cement” International Journal of Research and Development organization. ISSN-3855:0154, Volume 2, Issue 4, April 2015.
11. **P.Sasirekha**, “An Experimental investigation in indoor air quality in kitchen” International Journal of Engineering Research & Technology, ISSN:2278-0181, Volume 3, Issue 9, September 2014.
12. **M.Sathya,B.Shanmugavalli**, “Effect of using copper slag as a backfill in retaining wall” International Journal of Research in Engineering & Technology, ISSN:2319-1163, Volume 3, Issue 9, September 2014.

International / National Conferences

1. **Dr.K.Vijai**, “Investigation on Mechanical properties of high volume of ground granulated blast furnace slag in self compacting concrete” International Conference on Emerging trends in Structural engineering”NC-ETSE'15”, REC Ranganthan engineering college (27.03.2015).
2. **B.Shanmugavalli**, “Effect of waste glass sand replacement on the properties of concrete” International conference on Applied Engineering, science and technology, Madurai Institute of Technology & Applied Engineering Science & Technology ICAEST'-15 (13.04.2015).
3. **G.T.Koteeswaran**, “Experimental Studies on concrete with E-Plastic waste as partial replacement of coarse aggregate”, National Conference on Recent Advancement in Civil Engineering RACE-2015, P.S.R Engineering college (27.03.2015).
4. **A.Parthasarathy**, “Experimental study of partial replacement of cement by ice husk ash in polyster reinforced concrete” International Conference on Emerging Trends in Engineering and technology “ICETET'15”, Pandian Saraswathi Yadav Engineering College (13.03.2015 & 14.03.2015)
5. **M.T.Umamaheshwaran**, “Experimental study of light transmitting concrete” International Conference on Emerging Trends in Engineering and Technology “ICETET'15”, Pandian Saraswathi Yadav Engineering College (13.03.2015 & 14.03.2015)
6. **M.Sathya**, “Assessment of strength characteristics in concrete and mortar incorporating ceramic waste for cement” International Conference on Emerging Trends in Engineering and Technology “ICETET'15”, Pandian Saraswathi Yadav engineering college (13.03.2015 & 14.03.2015)
7. **B.Shanmugavalli**, “Effect of waste glass sand replacement on the properties of concrete” International conference on Applied Engineering, Science and Technology, Madurai Institute of Technology & Applied Engineering Science & Technology ICAEST'-15 (13.04.2015).

FACULTY PARTICIPATION IN SEMINARS/WORSHOPS/FDP'S

S.No.	Name of the faculty	Program	Title	Institution	Date(s)
1.	A.Parthasarathy	Training course	Basic Fire Fighting & Emergency preparedness	Agni Voice of Safety	30.06.2015
2.	K.Mahendran	FDP	Recent Innovations in geotechnical Engineering	Kalasalingam University	05.05.2015 to 10.05.2015
3.	K.Pandeeswari	Workshop	Modern surveying techniques –total station & GPS -H	Kamaraj college of Engineering and Technology	30.01.2015 & 31.01.2015
4.	V.Anandhi M.Sathya	Workshop	Introduction To Finite Element Methods and its Application.	National Institute of Technology, Trichy	23.01.2015 & 24.01.2015
5.	P.Sasirekha R.Lavanya	Workshop	Water Resoures and Maintenance	Latha Mathavan Engineering College	19.12.2014
6.	A.Parthasarathy G.T.Koteeswaran	Short term course	Project Management in Construction	Coimbatore Institute of Technology	15.12.2014 & 21.12.2014
7.	A.Parthasarathy M.Senthilkumar	Training course	Fire Safety & First Aid	Agni Voice of Safety	02.12.2014
8.	L.Kokila S.Karthick Paandian	FDP	CE2351-Structural Analysis -II	PSNA College of engineering	2.12.2014 & 8.12.2014
9.	N.H.Riyaz khan	Seminar	“Principles and Applications of Ground Penetrating Radar	Bharathidasan University	14.11.2014
10.	M.Sathya D.Chellameena	Workshop	17 th ISTE TN & P section Annual convention for faculty members	National Engineering College, K.R.Nagar, kovilpatti	07.11.2014 & 08.11.2014

11.	G.T.Koteeswaran S.Karthick Paandian	Workshop	Corrosion analysis and testing of concrete structures	PSNA College of Engineering & Technology	29.09.2014
12.	T.Ganesan P.Muthanand	Workshop	Finite Element Software	Mepco Schlenk Engg.College	19.09.2014 & 20.09.2014
13.	M.T.Umamaheswaran M.Senthil Kumar	Workshop	Emerging Trends In Nanotechnology For Civil Engineering Applications	PSNA College of engineering	11.09.2014
14.	T.Ganesan K.Pandesswari D.Chella meena R.Lavanya S.Manjula devi V.Solaimeenal	Workshop	Creation of website for Academicians in open source ERA	Sethu Institute of Technology	09.09.2014
15.	T.Ganesan D.Chella meena S.Karthick Paandian M.T.Uma Maheshwaran G.T.Koteeswaran A.Rajeshwaran A.Sankara Narayanan P.Sasirekha C.Rajendraprasath N.H.Riyaz Khan M.Rubila Jasmine	Faculty Induction Programme	Faculty Induction Programme 2014	Sethu Institute of Technology	10.07.2014 & 11.07.2014



EXTENSION ACTIVITIES BY THE FACULTY MEMBERS

S. No.	Name of the Faculty	Date	Topic/Role	Institution
1.	Dr.R.Kumutha	07.03.2015	Judge for paper presentation in Excivilore 2015 – National Level Students Technical Symposium	Renganayagi Varatharaj College of Engg.
2.	Dr.R.Kumutha	11.07.2014 15.07.2014 18.07.2014	Lecture on “Research & Development Activities” in Faculty Induction Programme	Sethu Institute of Technology

FACULTY AWARDS

- **Dr.R.Kumutha** received **Prof.K.Arumugam National Award for Innovative work in Engineering & Technology** from ISTE, New Delhi in the 44th ISTE National Convention, College of Engg., Trivandrum



CO-CURRICULAR ACTIVITIES OF STUDENTS

S.No.	Name of the student(s)	Program/Place	Event	Award/Prize/ Participation	Date
1.	Raj Prasad M.Ramavenkatesan S.Gokkulan	National Institute of Technology	Surveyor's Challenge	Consolation	15.03.2015
2.	R.Ramesh	National Institute of Technology	Workshop SCC mix design conducted by Ultratech Pvt.Ltd	Participation	14.03.2015
3.	M.Ramavenkatesan Raj kumar A.N.L.Saranath S.Raj Prasad V.Chandrasekaran B.Sripathy Raguram	National Institute of Technology	ITS & IOT Conducted by Mr.Mahalingam, CEO,Nitcon Workshop	Participation	14.03.2015
4.	G.Harish Kumar	National Institute of Technology	SCC MIX DESIGN Workshop	Participation	14.03.2015
5.	S.Sakthi Saraswathy S.Nagapriya	Dr.Mahalingam College of engineering and technology	MCET	Participation	13.03.2015 & 14.03.2015
6.	S.Velmurugan V.Chandrasekaran M.Paramasivam	National Institute of Technology	Get your hand dirty	II Prize	13.03.2015
7.	G.Harish Kumar	Ratnavel Subramanian College of Engineering & Technology	CAD Design	Participation	05.03.2015
8.	N.Kalpana B.Anitha S.M.H Mohamed Faslule Rahman	Ratnavel Subramaniam College of Engineering & Technology	GEODESY'15 Paper presentation	Participation	05.03.2015
9.	R.Rajapriya M.Deepika Devi	Ratnavel Subramaniam College of Engineering & Technology	GEODESY'15 Paper presentation	I Prize	05.03.2015

10.	M.Ellakkiya T.Karthika S.Karthi S.Divya Dharani A.Aswini	India's Biggest Civil Bridge Design Contest	IBCC INDIA Bridge Design	Participation	03.03.2015 & 04.03.2015
11.	P.Priyadharshini P.Aruna Devi B.A.Ramya T.Sharmila E.Madulika R.Rajapriya A.Nivetha A.Logamathi S.Nagapriya P.Sindhushri	Sethu Institute Of Technology	IBCC India Workshop	Participation	03.03.2015 to 04.03.2015
12.	M.Kalabharathi R.Bharani Rathna P.Nithya	Sree Sowdamika Society Of Civil Engineer	FISICO'15 Code Cracking, Paper Presentation and CADD	Participation	27.02.2015
13.	P.Nithya	Sree Sowdamika Society Of Civil Engineer	FISICO'15 Quiz	Participation	27.02.2015
14.	B.A.Ramya R.Rajapriya	PSNA College Of Engineering and Technology	CLASSY CIVILOSIUM '15 Paper presentation	Participation	27.02.2015
15.	B.Anitha N.Kalpana	PSNA College Of Engineering and Technology	CLASSY CIVILOSIUM '15 Paper presentation	I Prize	27.02.2015
16.	P.Arunadevi	Sree Sowdamika Society Of Civil Engineer	FISICO'15 Quiz	I Prize	27.02.2015

17.	P.Priyadharshini B.A.Ramya	Hindusthan College of Engineering and Technology	RENAISSANCE 2K15 Cartography	I Prize	25.02..2015
18.	P.Priyadharshini B.A.Ramya	Hindusthan College of Engineering and Technology	RENAISSANCE 2K15 Paper Presentation	I Prize	25.02.2015
19.	S.Sakthi Saraswathy J.Nandhini S.Nagapriya	MEPCO Schlenk Engineering college ,Sivakasi	GYAN MITRA'15 Paper presentation	II Prize	21.02.2015
20.	N.Kalpana B.Anitha M.Kalabharathi	MEPCO Schlenk Engineering college ,Sivakasi	GYAN MITRA'15 Workshop	Participation	20.02.2015
21.	S.Nagapriya	SSM Institute of Engineering & Technology, Dindigul	SQUADRA'15 Paper presentation	Participation	13.02.2015
22.	S.Sakthi Saraswathy J.Nandhini S.Nagapriya	MEPCO Schlenk Engineering college ,Sivakasi	GYAN MITRA'15 Paper presentation	II Prize	21.02.2015
23.	R.Nandhini	Dr.Sivanthi Aditanar College Of Engineering Thiruchendhur - 2015	SACOESIUM- 2015 Paper presentation	Participation	11.02.2015
24.	T.Karthika A.Aswini	Dream zone	Interior & Exterior Workshop	Participation	20.12.2014
25.	E.Madhulika	Kalasalingam University	National level Technical Symposium Master mind, Code cracking	II Prize	15.10.2014
26.	S.Sakthi Saraswathy J.Nandhini	K.L.N.College of Information Technology	APEX'14 Paper Presentation	II Prize	01.10.2014

27.	S.Sakthi Saraswathy J.Nandhini	K.L.N.College of Information Technology	APEX'14 CARWINGZ	Participation	01.10.2014
28.	B.A.Ramya P.Priya Dharshini	PTR College of Engg & Technology	PRUDENTIA'1 4 Paper Presentation	II Prize	26.09.2014
29.	E.Madhulika	Kamaraj College of Engineering	National Technical Colloquium Paper presentation	Participation	20.09.2014
30.	S.Sakthi Saraswathy J.Nandhini B.A.Ramya	Kamaraj College Of Engineering & Technology	ENTROIDOS'1 4 National Level Technical Colloquium Paper presentation	Participation	20.09.2014
31.	E.Madhulika	Kamaraj College of Engineering	Technical Quiz	II Prize	19.09.2014
32.	A.Mohamed Salman S. Sulthan Sirajudeen S.Raghav M.Rakesh I.Syed Abrar Ahmed	SRM University	Civil Simplified Design of Tall Buildings Seminar	Participation	12.09.2014 & 13.09.2014
33.	P.Elanchezhiyan V.Balajipandian	Karunya University	XCAVATE'14 National Level Tech Fest Paper Presentation	Participation	11.09.2014 & 12.09.2014
34.	A.Nivetha P.Nithya	Sethu Institute of Technology	Seminar French language & career opportunities' for Engineers	Participation	04.09.2014
35.	A.Nivetha P.Nithya S.Karthi C.Iniya V.Hema Priya S. Divya Dharani M. Ellakkiya	Dream Zone creative studies Madurai	Dream Zone Workshop	Participation	23.08.2014

36.	N.Vijaya Prasath	Velammal College of Engineering and Technology	CENTAC 2K14 State Level Competition CAD Contest	Participation	23.08.2014
37.	I.Syed Abrar Ahmed M.Rakesh	Kamaraj College of Engineering & Technology	Automobile Transmission Systems Workshop	Participation	14.08.2014
38.	P.Jeevagan D.Saravanan A.Peter J.Karthick R.Bhagavathi Kumar S.Ezhilarasi A.Navshath Nisha R.Thamayanathi T.K.Revathi M.Pavithra M.Visalatchi	CAPE Institute of Technology Tirunelveli	PSC-14 National Level Workshop	Participation	01.08.2014
39.	V.Hemapriya S. Dinesh A.P.Yagappan Mangaladurai	ICT Academy of Tamilnadu	ICT Academy of Tamilnadu	Shortlisted	2014-2015.

EXTRA-CURRICULAR ACTIVITIES OF STUDENTS

S.No.	Name of the student(s)	Place	Event	Award/Prize/ Participation	Date
1.	R.Thamayanathi T.K.Revathi	Sethu Institute Of Technology	Annual sports meet 2014-2015 Volley Ball	Runner	24.07.2015
2.	A.Nivetha	Sethu Institute Of Technology	Annual sports meet 2014-2015 Throw Ball	Winner	24.07.2015

3.	R.Sarath kumar	Sethu Institute Of Technology	Annual sports meet 2014-2015 100mts & 200mts	I Prize	24.07.2015
4.	R.Sarath kumar	Sethu Institute Of Technology	Annual sports meet 2014-2015 Foot Ball and Volley Ball	Winner	24.07.2015
5.	B.Karuppasamy	Sethu Institute Of Technology	Annual sports meet 2014-2015 400mts Relay	III prize	24.07.2015
6.	B.Balabarath	Sethu Institute Of Technology	Annual sports meet 2014-2015 Kabaddi	Winner	24.07.2015
7.	B.Karuppasamy	Sethu Institute Of Technology	Annual sports meet 2014-2015 Basket Ball and Volley Ball	Runner	24.07.2015
8.	C.Iniya	Sethu Institute of Technology	College Annual Sports meet Triple Jump	II Prize	24.07.2015
9.	C.Iniya	Sethu Institute of Technology	College Annual Sports meet 400 mts	III Prize	24.07.2015
10.	G.Reshma	Sethu Institute of Technology	College Annual Sports meet Throw Ball	Winner	24.07.2015
11.	V.Hema Priya	Sethu Institute of Technology	College Annual Sports meet 4x100 mts Relay	II Prize	24.07.2015
12.	S.Karthick	Sethu Institute of Technology	College Annual Sports meet Foot Ball	Winner	24.07.2015
13.	Nagaraj	Sethu Institute of Technology	College Annual Sports meet Volley Ball	Runner	24.07.2015
14.	P.Michael Raj C.Ananda Raj	Anna University Sports Board Chennai	Zonal Tournaments 2014-2015 Hockey	Runner	10.10.2014
15.	G.Harish Kumar	SKYFI labs	SWARM Robotics workshop	III Prize	02.09.2014

INPLANT TRAINING UNDERGONE BY OUR STUDENTS

S.No.	Name of the student	Company	Duration
1.	R.Ajay	Sourthern Railway	01.05.2015 to 26.05.2015
2.	A.Kishore Joe Francis S.Murugesan S.Karthick M.R.Mohadeen Abdul kadhar M.Kesavaram	Srichakra Tyres Limited, Madurai	29.12.2014 to 3.1.2015
3.	M.Suriyakala T.Yashika M.Suguna' S.Nithya S.Sabarimani J.Sabarish J.Srinivasan	Jayabharath Housing Private limited	26.12.2014 to 31.12.2014
4.	R.Rajapriya S.Nagapriya	TNPHC, Madurai	24.12.2014 to 31.12.2014
5.	M.Thangapandi M.Karthick R.Ravindran	Publics Works Departments	22.12.2014 to 27.12.2014
6.	K.LakshmiNarayanan K.A.Ranjith Kumar R.Rahul	Afcons Infrastructure Limited, Chennai	19.12.2014 to 24.12.2014
7.	A.N.L.Saranth	Sourthern Railway	25.06.2014 to 1.07.2014
8.	S.Sakthi Saraswathy B.A.Ramya	Publics Works Departments	28.05.2014 to 26.06.2014





PLACEMENT DETAILS

S.No.	Name of the Student	Company
1.	Kasim Rizvi.S.K.T	Input Solutions
2.	Nancy Jaya Suganya.J	
3.	Raghavendran.M.P	
4.	Ramesh Pandi.S	
5.	Sajan Thangamani.S	
6.	Shervin Sardonyx.D	
7.	Fazil.J	
8.	Karthik.I	
9.	Sivaram.T	



*Best
Outgoing
Student*



S.MADHAN
2011 - 15 Batch

DEPARTMENT VISION

To become a school of excellence in Civil Engineering education with an emphasis on research for the benefit of the industry and society

DEPARTMENT MISSION

- To provide state-of-art resources that contributes to a congenial learning environment.
- To cultivate moral and ethical values among the students.
- To produce leading practicing engineers and entrepreneurs
- To motivate the students to pursue higher education and take up competitive exams
- To establish centers of excellence in emerging areas of research for societal and industrial benefits.

Core Values

Quality

Morality

Commitment

Innovation

Teamwork

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Our graduates will:

- Apply knowledge of science and engineering to achieve practical solutions for real life problems in core and allied areas of civil engineering. **(Core Competence)**
- Design and develop civil engineering systems or components with the sense of ethics and professionalism for the benefit of industry as well as society. **(Professionalism)**
- Enhance their professional career through continuous learning to take-up challenging task in the organization they work with good technical competency, communication skills and team spirit. **(Life long Learning)**

PROGRAM OUTCOMES (POs)

Students in the Civil Engineering program should, at the time of their graduation, be able to

- a. Apply knowledge of mathematics, science and engineering to the solution of complex Civil Engineering problems. **(Engineering knowledge)**
- b. Develop a major research or design proposal for a Civil Engineering problem, complete the analysis, prepare and present the results. **(Problem analysis)**
- c. Design, build and evaluate a Civil Engineering structure to satisfy certain client needs as per design specifications and codal provisions. **(Design & Development of Solutions)**
- d. Identify and solve technical problems pertaining to civil engineering. **(Investigation of Complex Problems)**
- e. Use the techniques, skills, software and modern engineering tools for solving civil engineering problems. **(Modern tool usage)**
- f. Comprehend and discuss the impact of civil engineering solutions in a global and societal context. **(Engineer and society)**
- g. Design a Civil Engineering system, component, or process to meet the desired needs in societal and environmental contexts. **(Environment & sustainability)**
- h. Apply ethical principles and commit to professional ethics and responsibilities and norms of civil engineering practice. **(Ethics)**
- i. Function as a Project member / leader in a civil engineering or multidisciplinary project. **(Individual & team work)**
- j. Communicate effectively in both verbal and written forms. **(Communication)**
- k. Engage in independent and life-long learning in the broadest context of technological change. **(Lifelong learning)**
- l. Apply civil engineering and management principles in construction projects. **(Project management & finance)**

