

CIVIL-Q1-27/10/2023

JUL-DEC 2023



Dr. M.G.R

EDUCATIONAL AND RESEARCH INSTITUTE

(Deemed to be University with Special Autonomy Status)

Accredited by NAAC with 'A' Grade (CGPA 5.51 for 4 point scale)

An ISO Certified Institution



**FACULTY OF ENGINEERING AND
TECHNOLOGY**

**DEPARTMENT OF CIVIL
ENGINEERING**





VISION

To foster competent Civil engineers for the development of sustainable built environment



MISSION

M 1

Equip students in contemporary Civil Engineering domains

M 2

Impart practical training to meet the industrial requirements and to inculcate research competency

M 3

Provide adequate skills to become successful entrepreneurs



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO :1

Analyze Civil Engineering problems and design appropriate solutions as per standards

PEO :2

Practice as a Civil Engineer towards creating a sustainable society

PEO :3

Enhance quality of entrepreneurship through software, communication and managerial skills



PROGRAM OUTCOME (POs)

P01

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.



P02

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.



P03

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.





PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1

Capacity to manage civil engineering projects with technical knowledge and professional skills



PSO 2

Graduates will be able to work effectively as an individual or in a team with good leadership skills in multidisciplinary environments to meet sustainability goals



P01

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.



P02

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.



P03

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.



P04

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.



P05

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.



P06

The Engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.



P07

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.



P08

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.



P09

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



P010

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.



P011

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.



P012

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



FROM THE HOD'S DESK



“

I am pleased to know that our Civil Engineering Department is once again successful in bringing issue of News letter “CIVIL CHRONICLE”.

A Technical Newsletter such as this is required for growth and progress of departmental activities, including publishing articles, papers, research activities etc. I am sure that this type of publishing technical newsletter will prove its mettle by providing an opportunity for bringing out the writing talent which bears immense potentiality of sharpening Students' communication skill as part of their overall personality development and also will direct their creativity to new dimensions of mature expression.

I congratulate all the contributors and the editorial board for bringing out such a News letter. ”


DR. T. KAVITHA

EDUCATIONAL TOUR



Date: 07.08.2023 – 11.08.2023

They have visited the following places.

THE MYSORE PALACE

THE PARROT PARK IN MYSORE

KRISHANA RAJA SAGARA –(KRS) –DAM

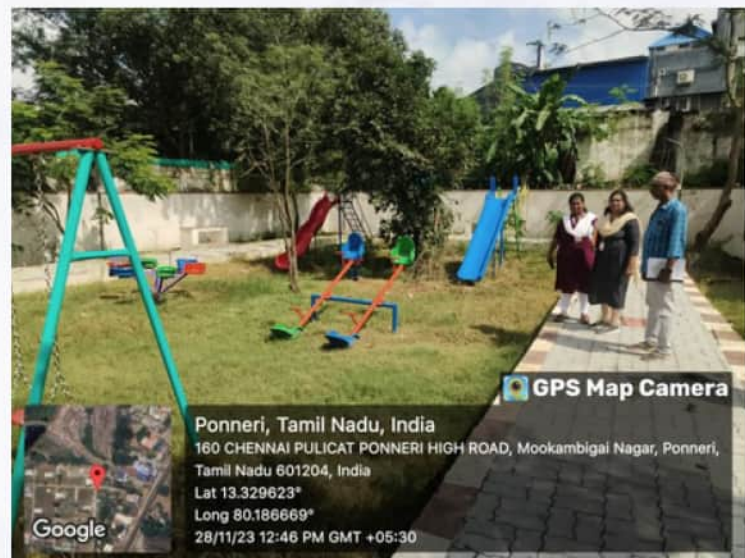
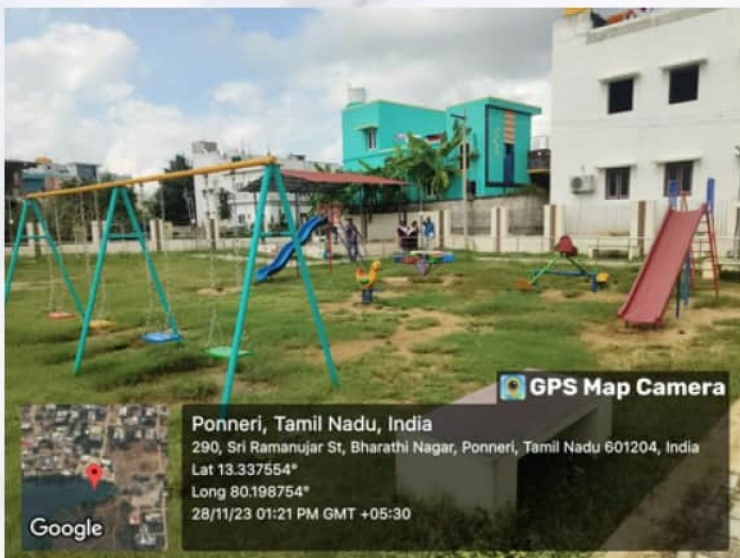
BRINDAVAN GARDEN

VISVASVARAYA TECHNICAL MUSEUM

The Department of Civil Engineering organized a four-day educational tour to Bangalore and Mysore for undergraduate and postgraduate students, providing valuable exposure to engineering practices, infrastructure development, and practical learning experiences.

CONSULTANCY WORK





FACULTY DEVELOPMENT PROGRAM


Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
 DEEMED TO BE UNIVERSITY
Established in 1988
Approved by All India Council for Technical Education
Recognized by UGC for awarding Postgraduate Degrees

Department of Civil Engineering
Organises

Five Days Faculty Development Program
(11th September 2023 to 15th September 2023)

ON

EMOTIONAL INTELLIGENCE

REGISTRATION LINK
<https://forms.gle/hk1fKzZ6eR6uBa4t8>

<p>11/09/2023 Positive Thinking Dr K Florence - Prof Faculty of Law</p>	<p>12/09/2023 Mental Health Dr Sruthi - Senior Resident SLMCH</p>
<p>13/09/2023 Stress Management Dr Jenolin Bruna CMC Vellore</p>	<p>14/09/2023 Time Management Dr B Neeraja - Prof & Dy Head Faculty of Mgt Studies</p>
<p>15/09/2023 Motivation Dr Grace Blessina Director, Dr Florrey Hospital</p>	

About the University

Dr. M.G.R Educational and Research Institute University (Formerly Dr. M.G.R Engineering College) strives with the mission to impart quality technical education. Established In 1988 and having acquired deemed university functions under Thirumathi Kannamal Education Trust under the dynamic leadership of founder chancellor of the University Thiru A C Shanmugam, B.A, B.L, Ex. M.P, M.L.A, Chairperson Mrs S Lalitha Lakshmi and the able administration of our President Er A C S Arun Kumar. The University is located on Bangalore highway at a distance of 5 km from the Koyambedu bus terminus and has been successfully conducting U.G/P.G Courses and Research programs of various faculties of Engineering and technology.

About the Department

Civil Engineering

The Department of Civil Engineering of Dr.MGR Educational and Research Institute, certified by ISO and accredited by NBA for 6 years, NAAC with A+ Grade, emerged in 2002 with the vision to train students and impart quality education with its multifaceted faculty.

The Eco-friendly campus, hostels and facilities of the University are maintained by the department along with excellence in teaching- learning, research and innovative extension activities.

The department of Civil Engineering conducts conferences, symposiums, polytechnic meets every year. In addition to this value added courses, guest lectures, seminars, webinars, pre placement training, workshops etc. are conducted on a regular basis.

The Department is also closely associated with IIT PALS where the students have won prizes in contests. The department is also involved in various funded projects for ISRO, SERB, BRICS etc. along with consultancy work. Our alumni are well placed in National and international companies like ALSTOM, Cushman & Weikfield, Sobha Hartland, Dubai, BARC, CSIR, SERC, Chennai Metro, Delhi Metro, SAIL, L&T, Ultratech, Jindal Steels etc.

Objectives of the FDP

The main objective of conducting the FDP on IPR is

- To gain an insight into emotional intelligence, what it is and how you can use it
- Develop self awareness and self management of personal emotions
- Explore ways to advance personal emotional intelligence
- Recognize emotions in others, responding to those emotions in order to inspire high performance
- Understood the consequences of behaviour and weigh decisions before action

Participation

Academicians from various Institutions are eligible to apply and participate in the Faculty Development Program.

Certificate Criteria

E Certificates will be generated based upon the eligibility Criteria of having 100% attendance on all days

Registration Fee

No Registration Fee

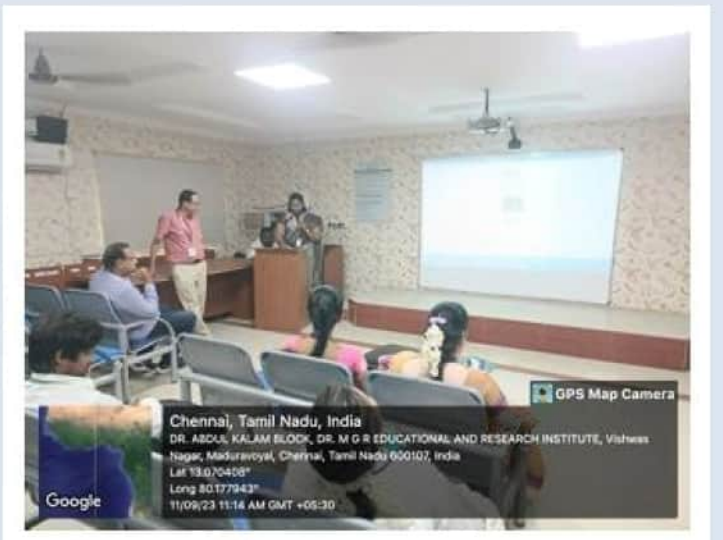
Department of Civil Engineering, Dr.
 M.G.R. Educational and Research
 Institute, Chennai organizes
 Five Days Online Faculty Development
 Programme on ‘EMOTIONAL
 INTELLIGENCE’ at Google Meet
 From 11/09/2023 to 15/09/2023

LAL BAGH GARDEN – FLOWER SHOW



The students felt very happy and satisfied in organizing this fantastic educational trip.

We express our heartfelt gratitude to our Honorable President, Er. A.C.S. Arunkumar sir for giving his acceptance and supporting us for this Educational Trip. We thank Dr. T. Felixkala Joint Registrar (Student Affairs) to guide the whole process of this tour.



EVENTS



Date: 22.09.2023

The Department of Civil Engineering organized AAKRITI 2023, a National Level Technical Symposium themed "Green Energy", providing a platform for students to showcase technical knowledge, innovation, and research in sustainable energy and engineering.

AAKRITI 2023, a National Level Technical Symposium on "Green Energy," was organized by the Department of Civil Engineering. The event included expert lectures, awareness on waste management, and various technical and non-technical competitions, providing students with opportunities to enhance their knowledge, skills, and innovation.



SPEECH ABOUT VIKSIT BHARAT



Our Hon'ble PRIME MINISTER SHRI NARENDRA MODI speech about VIKSIT BHARAT@2047 on 11-12-2023. Telecasting at Civil

Smart Room.

Civil faculty members and students are watching the live streaming.

SURVEY CAMP 2023



Survey camp at KUNDRATHUR HILLS from 7.9.23 to 9.9.23 as a part of B. Tech curriculum.

Students of III-year civil engineering were benefited from this practical learning from 7.00am to 2.30pm on all days of camp by exploring the terrain, geological features, measurement of cut and fill portions of land and contouring methods of levelling at Kundrathur hills.

Dr. P. Gomathi Nagajothi, Asst. Prof/Civil, Dr. A. Arivumangai, Asso. Prof/Civil and Mr. V. Kumaran, Lab-instructor accompanied the students on all days of camp.

TECHNOLOGY TALK



Technology talk on RAINWATER HARVESTING, organized by the Department of Civil Engineering in the Smart Room on 11.09.23 at 11.00AM for students of Civil Engineering.

Dr. T. Kavitha, HOD, delivered the welcome address. Dr. RA. B. Deepa, Assoc. Professor introduced the speaker Dr. R. Raguraman, Chief Executive, KRG. Rainwater Foundation, Chennai to the audience.

The Speaker explained the practices of Rainwater harvesting implemented in various parts of India including, Saint Gobain, Chennai, Tata Steel, Jamshedpur, Noamundi Jharkhand and also in Gujarat. He also explained about Electrical Resistivity survey for investigation of subsurface.

Mr. D. Ramakrishna, Assistant Professor, and event coordinator proposed a formal vote of thanks.

TRAINING PROGRAM

IGBC's Green Education Conclave
22 NOVEMBER 2023; 10:00 hrs to 17:00 hrs
VIVEKANANDA AUDITORIUM, ANNA UNIVERSITY

CHEIF GUEST

Thiru Hans Raj Verma
IAS, Additional Chief Secretary, Chairman and Managing Director of Tamil Nadu Industrial Investment Corporation (TIC)

Dr. E. Murugan
Professor, University of Madras, Chennai

Dr. V. Suresh
Professor, Anna University, Chennai

Dr. J. Prakash
Professor, Anna University, Chennai

Dr. C. Velan
Member, IGBC Green Education Committee

Ajit Kumar Chordia
IGBC Chennai Chapter

AGENDA

- Inspiration From Torch Bearers
- Innovations In Sustainability
- Role Of Professionals In Green Built Environment
- Interaction With Young Achievers

GREEN BUILDING CONGRESS
23 - 25 NOVEMBER 2023
CHENNAI TRADE CENTRE | CHENNAI | INDIA

Register Here

Upcoming IGBC GREEN EDUCATION CONCLAVE.

This event promises to be a transformative experience, providing valuable insights into innovation, sustainability, and the pivotal role professionals play in India's sustainable future.

Date & Time: November 22, 2023 | 10:00 AM - 05:00 PM

Venue: Vivekananda Auditorium, Anna University, Chennai, Tamil Nadu.

The conclave will feature four engaging sessions:

Innovation in Sustainable Practices

The Path to Sustainability

Professional Roles in India's Sustainable Journey

Shaping the Future through Green Education



CIVIL

NEWSLETTER

BUILDING TODAY • SUSTAINING TOMORROW



STUDENT COORDINATORS

- 1 Rahul Rajpirohit**
B.Tech / V Sem
- 2 Anish**
B.Tech / VII Sem
- 3 Alan John**
B.Tech / II Sem
- 4 Vaibhav P**
B.Tech / II Sem
- 5 Vishnu M**
B.Tech / II Sem



CHIEF EDITORS – STAFF INCHARGE

- Dr.R.SUDHAKAR** [Deputy Dean]
- Dr.RA.B.DEPA** [Deputy Hod]
- Dr B Vijaya** [Professor]

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- yt** You-tube : https://youtube.com/channel/UCVGFqLaSDoqkYcf2hK_02Kw



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Department of Civil Engineering

