

One week online
Faculty Development Programme (FDP)
on
“Energy Auditing, Management
&
Design of Solar Energy Systems”
8-12 September 2020

Organised by



Departments of Mechanical, Electrical and Automobile Engineering
Maturi Venkata Subba Rao (MVSR) Engineering College
Affiliated to Osmania University & Recognised by AICTE, Nadergul, Hyderabad.

www.mvsrec.edu.in

in association with



Engineering Staff College of India

Autonomous Organ of Institution of Engineers (India)

Old Bombay Road, Gachibowli, Hyderabad.

www.escihyd.org

ABOUT MATURI VENKATA SUBBA RAO (MVSR) ENGINEERING COLLEGE

MVSR Engineering College, Maturi Venkata Subba Rao Engineering College, is established in the year 1981. It is one of the earliest of the colleges in the state of the then United Andhra Pradesh, India that pioneered engineering education in private sector. The college is founded by Matrusri Education Society. College has institutional membership with IEI. The UG programs in engineering have been accredited by NBA thrice. It is an ISO 9001:2015 certified and NAAC accredited Institution.

COLLEGE VISION:

To impart technical education of the highest standards, producing technically competent confident and socially responsible engineers.

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established in the year 1981 at the time of inception of MVSREC. The department offers one under graduate programmes, B.E in Mechanical Engineering, with an intake of 120 and one Post Graduate Programme, M.E. with specialisation in CAD/CAM with an intake of 18 seats. The Department has well equipped laboratories with research facilities and is actively involved in many fabrication and research projects in collaboration with leading R&D organizations. The Department is associated with student chapters IEI, SAE, ISTE, FIAAP and Renewal Energy Club. The B.E Mechanical Engineering course has been accredited by the NBA in 2002, 2007, 2013 & 2018.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

With its first batch graduating in 2001, Department of Electrical and Electronics Engineering M V S R Engineering College has evolved with time and offers Under Graduate course B.E (EEE). Established in 1997, many bright students in the field over the last two decades received their training in the department. There are 10 well equipped laboratories and facilities which are being used for training of undergraduate students. The Department has started various student professional societies like IE, ISTE, IEEE- PES Student chapters to enhance and extend their knowledge & make themselves in par with present developing world.

DEPARTMENT OF AUTOMOBILE ENGINEERING

B.E. programme in Automobile Engineering was started in 2009 under the Department of Mechanical Engineering with an intake of 30 students. The present intake is 60 students. MVSR Engineering College is the first college to start B.E. (Automobile Engineering) in the state of Telangana. The course has been attracting good students from inception, and is becoming increasingly popular. The Department is associated with student chapters IEI, SAE, ISTE, FIAAP and Renewal Energy Club. The dept. has developed excellent laboratory facilities with state of the art equipment. Students of the programme are encouraged to participate in various competitions, such as SAE-BAJA, EFFICYCLE, SUPRA, GOKART etc.

ABOUT ENGINEERING STAFF COLLEGE OF INDIA (ESCI)

ESCI's MISSION:

To provide qualitative education, training and applied research in the fields of technology and management. To assist the engineering fraternity to be innovative and advanced to meet the challenges in the unbounded world of tomorrow and to be the front line interface between academia, research, industry and other sectors in advanced Engineering/Technological application and Key enabler in fostering High and Thrust area programmes.

As the constituent organ of the Institution of the Engineers (India), the Engineering Staff College of India (ESCI), under the leadership of its Director, Brig. (Dr) A. Umar Farook, VSM (Retd.), is at the forefront in professional development of engineers in both core engineering disciplines and also interdisciplinary domains such as climate change, quality management, intelligent transportation, renewable energy and water resources management, Electrical Safety as per CEA (2010). Recent programmes of ESCI address emerging areas such as additive manufacturing, information security, unmanned autonomous vehicles, engineering analysis, and simulation. ESCI is also supporting technical universities and engineering colleges through programmes that focus on accreditation and assessment protocols, proficiency development for TEQIP institutions and employability enhancement of engineering graduates. Eminent

engineers, scientists, industry leaders, IE (I) council members and academicians who serve as empanelled experts and adjunct faculty of ESCI enrich these programmes through sharing of their professional insights. Recently ESCI received affiliations from various skill development councils of NSDC. ESCI also entered into MOU with IE (I) Himachal Pradesh Centre and other engineering institutions to offer training and skill development programmes in various centres. By setting up well-equipped laboratories in core engineering disciplines, ESCI looks forward to fulfilling the training needs of AMIE graduates and other young engineers who need industry-orientation. Our engineering enterprises and industries need skilled engineers for capacity enhancement and ESCI's programmes are poised to make a significant contribution towards this cause of immense value to the nation building. Power and Energy Division of ESCI, is providing total faculty support, through its expert faculty members who will deliver all technical sessions for this programme.

RESOURCE PERSONS



Sri.J.N.Karamchetti, FIE,
Independent Consultant,
Former Head, Sr. Faculty, Power & Energy Division, ESCI
Certified Energy Auditor
Master Trainer for Roof top Solar PV



Sri.A.C.Mohana Rao, FIE, BOE,
Head, Sr. Faculty, Power & Energy Division, ESCI
Certified Energy Auditor
Master Trainer for Roof top Solar PV, Retd. Scientific
Officer- (DAE), Retd AGM, Tata Power



Sri. MSN Sastry, FIE,
Retired Director,
Heavy Water Board,
Department of Atomic Energy,
Visiting Faculty, ESCI



Sri.N.Ravi Chander, FIE,
Sr. Faculty,
Power & Energy Division, ESCI
Retd. Executive Director, BHEL



Sri.B.Prahlad, FIE,
Retd. Dy. CE, NFC,
Former Advisor, Power & Energy Division, ESCI



Sri.I.V.Ramesh Kumar,
Independent Consultant,
Accredited Energy Auditor,
Visiting Faculty, ESCI

FDP DETAILS

FDP will be conducted using Google Meet application. Details will be sent to registered participants through E-mail and also in Whatsapp group.

Schedule		
Date/ Session	Session 1: 10.00AM to 12.00AM	Session 2: 01.00PM to 3.00PM
Tuesday 08-Sep-2020	Energy Efficiency in Electrical Systems, Efficient Motors, transformers , Capacitor, Labelling, Performance Assessment by Sri.JNK	Energy Efficient Technologies, VFD, Soft starters, Energy efficient lighting etc by Sri.MSNS
Wednesday 09-Sep-2020	Energy management Audit, Benchmarking, Material and Energy Balance by Sri.ACMR	Chemical Energy, Combustion of Fuels, Estimation of losses in Heat Transfer, Thermal Energy , Factors affecting thermal Efficiencies by Sri.BP
Thursday 10-Sep-2020	Comprehensive Energy Conservation Planning (CECP), targets , Data, evaluation by Sri.NRC	Industrial Energy Conservation Modeling, Methodology Forecasting, Verification & Validation by Sri.IVRK
Friday 11-Sep-2020	Solar radiation data, Solar PV basics, Modules, Inverters and BOP by Sri.JNK	Solar Energy System - Basic Mechanical Design of PV & Thermal components by Sri.ACMR
Saturday 12-Sep-2020	Design aspects of solar energy storage systems, water, space heating by Sri.MSNS	Solar PV system, Design of 1 MW Grid connected system, Net-metering, Performance Analysis by Sri.JNK

REGISTRATION DETAILS

Participant	Fee	Link
Faculty and Research scholars	INR 1000+18%GST= INR 1180	https://forms.gle/6gnBNCojAVcBE7a68
Industry Personnel	INR 3000+18%GST= INR 3540	https://forms.gle/LLgr1Ec6H86KwpcD9
Students	INR 500+18%GST= INR 590	https://forms.gle/CUSNVG1wydm1NMd48

- Last Date for Registration: September 7, 2020.
- Certificates will be issued for registered candidates only.

ORGANIZING COMMITTEE

CHIEF PATRONS	Brig. (Dr) A. UMAR FAROOK, DIRECTOR, ESCI, VSM (RETD.) Dr.K.P.SRINIVAS RAO, HON.CHAIRMAN, MES
PATRONS	Sri.SUDHAKAR JUPUDI, HON.SECRETARY,MES Sri.M.KRISHNA KUMAR, HON.VICE CHAIRMAN 1,MES Sri.M.V.VASUDEVA RAO, HON.TREASURER,MES
CHAIR PERSONS	Dr.G.KANAKA DURGA, PRINCIPAL, MVSREC Prof.S.G.S.MURTHY, FIE, VICE-PRINCIPAL, MVSREC
HoD's	Dr.M.MADHAVI, FIE, MED, MVSREC Dr.G.VEKATA SUBBAIAH, FIE, AED, MVSREC Sri.C.V.G.K.RAO, EEED, MVSREC
CONVENER	Dr.M.MADHAVI, FIE, HMED, MVSREC N. YOGI MANASH REDDY, ASSISTANT PROFESSOR, MED, MVSREC M. RAVEENDRA REDDY, ASSISTANT PROFESSOR, EEED, MVSREC
CO-ORDINATORS	A. GNAN REDDY, ASSISTANT PROFESSOR, AED, MVSREC N. NARASIMHA, PROGRAMME MANAGER, P&E DIVISION, ESCI Y.S.LAKSHMI, PROGRAMME MANAGER, P&E DIVISION, ESCI

CONTACT

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