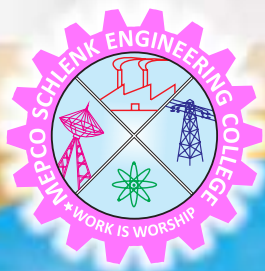


MEPCO SCHLENK ENGINEERING COLLEGE

(An Autonomous Institution affiliated to Anna University, Chennai)

SIVAKASI



Prospectus 2022

VISION

ENVISIONING A WORLD LEAD BY OUR ENGINEERS HOLDING A BEACON OF HOPE AND CONFIDENCE FOR GENERATIONS TO COME

MISSION

TO PRODUCE COMPETENT, DISCIPLINED AND QUALITY ENGINEERS & ADMINISTRATORS THROUGH SERVICE PAR EXCELLENCE



PROFILE

Mepco Schlenk Engineering College, Sivakasi, is a leading self-financing Engineering College started on 17th October 1984 in the presence of Ms. & Mr. Gunter Von Schlenk, Ms. & Mr. Erwin Flohrer from M/s. Carl Schlenk A G and Dr. S. Krishnaswamy, the then Vice Chancellor, Madurai Kamaraj University.

The College is approved by AICTE, New Delhi and affiliated to Anna University, Chennai with Permanent Affiliation for 14 out of 17 programmes. All the eligible 7 UG Programs and 4 PG Programs are accredited by National Board of Accreditation (NBA), New Delhi under Tier-I Category. Also our college is reaccredited with A Grade with a CGPA of 3.22 on a 4 point scale for a period of 5 years from February, 2021 by National Assessment and Accreditation Council (NAAC), Bangalore in II cycle of accreditation. Our college has been granted Autonomous Status by UGC, New Delhi and Anna University, Chennai from the academic year 2013-14 and Choice Based Credit System (CBCS) in true sense, Fast Track Scheme to undertake internship cum project during 8th semester, special courses by Industry / Academic experts from India and abroad are introduced. The institution is fast catered to bridge the gap of demand and supplies of quality Engineers and Managers and completes 38th year of Service par Excellence. With Quality, Standard and Discipline as Mantras, the ideal practices like complete Academic Freedom, emphasis on Outcome Based Education (OBE), encouragement for Research and serene campus life, emphasis on overall personality developments are catalytic for the present status of the institution. The students are offered Value Added Courses, Special Courses, Audit Courses, NPTEL courses, Spoken Tutorials etc. beyond the curriculum. The college is known for highly experienced faculty with average experience of 13 years; of them 147 (55.05%) are Ph.D. holders and 115 (43.07%) faculty are pursuing Ph.D.

During 3 decades of its existence, the college has many credentials : UG University/Autonomous Ranks - 1221 (86 First Ranks); PG University/Autonomous Ranks - 542 (113 First Ranks); 10000+ students placed through campus placement; 136 R&D projects worth more than Rs.16 crores from various Government Funding Agencies and R&D Organizations; Multiple R&D centres to pursue the state of art research in frontier areas; 40 numbers of Professional Societies, Co-curricular and Extra Curricular Forums with 1000+ programmes in a year for the overall personality development of students; Anna University approved Research Centres-10 Nos with 205 completed and 190 pursuing Full and Part Time Ph.D. scholars; MSME, New Delhi approved Technology Business Incubator (TBI) Cell; DST sponsored TIFAC Core Centre; Best Professional Societies / Co-curricular Forum Awards, Best IEEE / ISTE / CSI / SAE / IETE Student Activist Awards; Overall Sports Championships in Anna University Zonal Level Competitions; Organization of International / National Conferences / Seminars / Workshops / FDPs / STTPs – 944 Nos.; Participations by faculty for knowledge dissemination in International / National / State level Conferences / Seminars / Workshops - 10114 Nos; publications of nearly 3000 (as on March, 2022) articles in international journals with 38901 citations and the institute h-index is 79 and i10-index is 862.

The committee members of our college are dynamic personalities with far sighted vision and wisdom, experienced in running Institutions from Primary Schools to Institutions of higher education besides Mepco Schlenk Engineering College. They are experienced in running several successful Industries and efficiently administer the Metal Powder Company Limited, Thirumangalam.

COMMITTEE MEMBERS

President : Shri. Sv. K. M. Ramalingam
Vice-President : Shri. Yennarkay R. Rajarathnam
Secretary : Shri. D. Singaravel
Joint Secretary : Shri. Gunasingh Chelladurai
Correspondent : Shri. A. Tenzing
Members : Shri. A. Ramamurthy
Shri. S. Annamalai
Shri. G. Abiruben
Shri. V. Ayyan Kodiswaran
Shri. Yennarkay R. Selvarathnam

AWARDS & ACHIEVEMENTS

AWARDS

- 124th Rank in "Top 200 Engineering Colleges" including IITs and NITs and overall position in 151-200 Rank band by National Institutional Ranking Framework (NIRF) during September, 2021; 101st position in June, 2020 and 88th position in April, 2019.
- Reaccredited with a CGPA of 3.22 on a four-point scale at A Grade valid for a period of five years from February, 2021 in second cycle of accreditation by National Assessment and Accreditation Council (NAAC), Bangalore; A Grade with a CGPA of 3.14 in 1 cycle.
- All eligible UG Engineering programmes B.E (Civil), B.E (EEE), B.E. (ECE), B.E. (CSE), B.E. (Mech), B.Tech (IT), B.Tech (BT) have been accredited by NBA, AICTE New Delhi under TIER-I Category up to 30-06-2022.
- B.E (Civil), B.E. (EEE), B.E. (ECE) programmes are accredited 5th time, B.E. (CSE) and B.E. (Mech) Programmes 4th time while B.Tech (IT) and B.Tech. (BT) programmes are accredited 3rd time.
- PG Programmes M.E (Comm.sys), M.E (CSE), M.E (PED) and MCA have been accredited for 3 years up to 30-06-2022
- Member of PALS, an initiative of IIT Alumni Industry Interaction Center-IIT AIIC, Chennai from May 2017
- Distinguished College Award by CSI Mumbai Chapter during January, 2017.
- UGC certification to receive Central Assistance under Section 12 (B) of UGC Act, 1956 from 04 Nov.2015.
- "Scientific and Industrial Research Organisations (SIROs)" by the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, New Delhi since 1997.
- International Institution Award by Qualification and Assessment International, UK in 2015 to 2020.
- International Asia Pacific Quality Award :: Quest for Excellence Award (Third Highest) : Education category in 2010.
- IMC Ramakrishna Bajaj National Quality Trophy in the Education category in 2009.
- Permanent Affiliation for 14 out of 17 courses from Anna University, Chennai.
- Anna University Approved Research Centres – 10 nos.
- Platinum Rating by AICTE-CII Survey on Industry-Linked Technical Institutes April 2021.
- Placed between 26-50th positions among 674 institutions in the ARIIA: Atal Ranking of Institutions on Innovation Achievements during Aug 2020, recognized in the band "PERFORMERS" in ARIIA 2021 ranking.
- Highest 4 star rating for our Institute Innovation Council (IIC) in December, 2021 by Ministry of Education, New Delhi.
- Green Award-2018 by Tamil Nadu Pollution Control Board.
- Our college was ranked as one of the Top 100 Local Chapters and is recognized as an ACTIVE Local Chapter by NPTEL, IIT-Madras, Chennai and also ranked 2nd in All India level; 1st in Tamilnadu in April 2017, Dec. 2017 & April 2018. 5th in All India and 2nd in Tamilnadu in Nov. 2018.
- One of the "Top Performing Nodal Centers" in Amrita Virtual Labs utilization since 2018.
- 48 faculty members listed in AD-Scientific Index: World Scientist and University Ranking 2022, Nov.2021 based on h-index and i-10 index of their publications.
- 3 Mechanical Department faculty members listed in "Indian Researchers who were Top 2% in 2019" published by Stanford University Study, November, 2020.
- Hiyoshi Young Leaf Award-2021 an International Award to Civil Department faculty by Hiyoshi Corporation, Japan in November 2021.

SURVEY RANKINGS

- 14th Rank in the Ranking of Top Engineering Colleges of Eminence at National-level category by CSR-GHRDC Engineering Colleges Survey 2020 - Competition Success Review magazine, July 2020.
- 35th position in "Top 200 Best Private Colleges" among all private technical Institutions in India by India Today Survey, July 2020.
- 72nd position in "Top 100 Tech-enabled T-Schools" by Data Quest Survey, December 2020.
- 32nd position in EW India Private Engineering Colleges Rankings, April 2020.
- 11th Rank in Tamilnadu and 133rd Rank in India among Top Government and Private Business Schools (Business Today – MDRA Survey 2021)

PLACEMENTS

- Consistent placements in the past
- Highest packages consistently for the last several years (Highest salary of ₹ 18.5 lakhs – 7 Nos; ₹ 12 lakhs to ₹ 8 lakhs – 15 Nos in 2021-22)
- Dream option available for placed students to go for higher packages and better job profiles
- Summer and Winter Internships and Industrial Visits for students
- Rigorous training in Programming skills, General Aptitude, Business English, Communication Skills, Industry Practices, Group Discussion & Interview preparation



INFRASTRUCTURE



BUILDINGS

The college has reached new heights with buildings, sky-scraping the reputation of the college. They cover a total plinth area of about 1,26,656sq.m (13,63,325sq.ft) with a design foundation on the safety and comfort of students. This year B.Arch Building, Satellite canteen and Staff Quarters 8 blocks with a total build up area of 10,977sq.m (1,18,156sq.ft) are under construction.



LABORATORIES

Without any aid from the Government, the management has invested more than Rs.181.5 crores for infrastructural facilities. All the labs and workshops have been well equipped with the latest equipment worth of Rs.50.49 crores during the past 38 years.



INTERNET

The College has 500 Mbps internet bandwidth. All the buildings in the college including hostels are Wi-Fi enabled with 158 & 103 access points in Academic and Hostel blocks respectively.



HOSTELS

The College has 5 Gents' and 5 Ladies' hostels. The mess is run on dividing system with an average daily rate of Rs.120 (with 6 days Non Veg.) for gents and Rs.91 (with 5 days Non Veg.) for ladies. The mess provides with a gourmet and nutritious food. Wi-Fi facility to access internet and intranet, One ISDN telephone for every 20 students and DTH connections are provided in all the hostels and the Guest House. Indoor Games: Table Tennis, Chess, Carom etc. Outdoor Games: Basket Ball, Volley Ball, Cricket, Ball Badminton, Tennis etc. All the Hostels and SAC are provided with water dispenser (Hot + Cold + Normal water) of 100 litres capacity



STUDENTS AMENITIES

Tamilnad Mercantile Bank extension counter with ATM, Canteen, Dining Halls for Day scholars, Meditation Hall, Post Office, General Stores, Medical Centre with Residential Doctor & 2 Staff Nurses, Ambulance, Reprography facility in library, college and hostel.



TRANSPORT

The transportation facilities with 9 Buses, 4 Mini Buses are available from Virudhunagar and Sivakasi.



ELECTRICAL (POWER SECTION):

The College is well equipped with 3 HT transformers with the total capacity of 1700 kVA. 5 diesel generator sets with a total capacity of 1025 kVA and Roof top solar power plant (700 kWp) is available to harvest the green energy.



SOLAR WATER HEATING SYSTEM

All the Hostels, Guest House and SAC are having solar water heaters with a total capacity of 26,800 ltrs for bathing and cooking purpose.



WATER PURIFICATION PLANT

Rain water stored in underground sumps are treated in rain water purification plant (capacity - 30,000 litres/day) with sand filter, carbon filter, micro cartridge filter, UV disinfection system and ozonator and made available to fulfil the total drinking water demand of the campus.

SEWAGE TREATMENT PLANT

Our college consists of two Sewage Treatment Plants (STP) of capacity 150 KL per day and 200 KL per day. Both the STPs treat waste water from hostels, canteen, mess and staff quarters. The treated water which comes out of the STPs are effectively used for gardening. In most of the areas drip irrigation is being installed thereby making the campus green and beautiful.

MIYAWAKI FORESTATION

Apart from having around 5000 trees across the campus, our college has created three dense forest areas under Miyawaki Forestation method with around 12,000 trees (Phase I), 6,000 trees (Phase II) during 2020-21 and 40,000 trees (Phase III) during 2021-22.

RAIN WATER STORAGE SUMPS

In addition to 23 Rainwater recharge units, our college has large basement Rainwater storage sumps in all the newly constructed buildings with a total storage capacity of 75 Lakh litres. Treated rain water is used as drinking water in all hostels and quarters.

COURSES OFFERED

Eligibility for all courses: As per DoTE Criteria

UG PROGRAMS

Name of the Program	*B.E (Honours) Degree in Emerging Areas	
B.E Civil Engineering	<ul style="list-style-type: none"> • Smart Cities • Infra-Structure Engineering 	<ul style="list-style-type: none"> • Construction Technology • 3D Printing
B.E Electrical & Electronics Engineering	<ul style="list-style-type: none"> • Internet of Things • Electrical and Computer Engineering • Electric Vehicles • Microgrid Technologies 	<ul style="list-style-type: none"> • Control Systems and Sensors Technology • Robotics • Sensors Technology
B.E Electronics & Communication Engineering	<ul style="list-style-type: none"> • Artificial Intelligence and Machine Learning • Cyber Security • Internet of Things • Sensors Technology 	<ul style="list-style-type: none"> • Blockchain • Data Science • Robotics
B.E Computer Science & Engineering	<ul style="list-style-type: none"> • Artificial Intelligence and Machine Learning • Cyber Security • Internet of Things • Sensors Technology 	<ul style="list-style-type: none"> • Blockchain • Data Science • Virtual and Augmented Reality
B.E Mechanical Engineering	<ul style="list-style-type: none"> • Systems Engineering • Robotics • Electric Vehicles 	<ul style="list-style-type: none"> • Energy Engineering • 3D Printing
B.Tech Information Technology	<ul style="list-style-type: none"> • Artificial Intelligence and Machine Learning • Cyber Security • Internet of Things • Sensors Technology 	<ul style="list-style-type: none"> • Blockchain • Data Science • Virtual and Augmented Reality
B.Tech BioTechnology	<ul style="list-style-type: none"> • Computer Science and Biology • Genome Engineering and Technology 	<ul style="list-style-type: none"> • Biosimilar Technology
B.E Bio Medical Engineering	<ul style="list-style-type: none"> • Medical Robotics and Devices • Blockchain • Data Science • Robotics 	<ul style="list-style-type: none"> • Artificial Intelligence and Machine Learning • Cyber Security • Internet of Things • Sensors Technology
B.Tech Artificial Intelligence and Data Science	<ul style="list-style-type: none"> • Internet of Things • Blockchain 	<ul style="list-style-type: none"> • Cyber Security • Virtual and Augmented Reality
*Minor Degree in other Program Emerging Areas, i.e. except in areas specified as Honours for the specific program		

* Additional courses to be studied – 6 Nos (18 Credits)

PG PROGRAMS

Master of Business Administration
 Master of Computer Application
 M.E. Communication Systems
 M.E. Computer Science and Engineering
 M.E. Structural Engineering
 M.E. Industrial Safety Engineering
 M.E. Power Electronics and Drives
 M.Tech. Biotechnology
 (PG Gate Scholarship : ₹12,400/- per month through AICTE)

RESEARCH PROGRAMS

(Stipend: ₹1,50,000/- per year)

Civil Engineering
 Electrical & Electronics Engineering
 Electronics & Communication Engineering
 Computer Science & Engineering
 Mechanical Engineering
 Bio Technology
 Physics, Chemistry, Maths
 (Stipend : ₹1,50,000/- per year for Full time Ph.D Scholars)

Management Scholarship for all MQ & GQ Students

Management Scholarship wef. 2020-21*			Stipend wef. 2022-23*	
CGPA till previous Semester	B.E. / B.Tech.	M.B.A. / M.C.A.	I Year M.E. / M.Tech.	II Year M.E. / M.Tech.
9.5 and Above	₹ 55,000/-	₹ 35,000/-	₹ 50,000 / ₹ 25,000 For students with CGPA >= 8.5 / 8.0 in UG (or) CGPA 9.0 / 8.5 and above in I Sem	₹ 50,000 / ₹ 25,000 For students with CGPA 9.0 / 8.5 and above up to III Sem
9 to 9.49	₹ 25,000/-	₹ 15,000/-		
8.5 to 8.99	₹ 15,000/-	₹ 10,000/-		

*Conditions Apply

- ✓ Management Scholarship & Stipend disbursed so far Rs.8.14 Crores (2020-21: 1.41 Crores, 2019-20: 1.55 Crores, 2018-19: 1.13 Crores, 2017-18: 1.02 Crores, 2016-17: 1.00 Crores)
- ✓ Best Certified project at International / National level
- ✓ Best UG project from each class
- ✓ Grant for implementing Innovative Student Projects
- ✓ Winner / Runner / Participants in National / State / University / District level sports activities
- ✓ Winner in State level fine arts activities

DEPARTMENTS



CIVIL ENGINEERING

- 10 Ph.D. Holders & 16 faculty members pursuing
- University Ranks :
 - UG - 157 Ranks (12 First Ranks); PG - 23 Ranks (8 First Ranks)
 - Autonomous Ranks :UG - 48 Ranks; PG - 21 Ranks
- 10 Laboratories with equipment worth more than Rs. 3.04 Crores
- Centre of excellence in “Structural Element Testing Centre, Concrete Research Centre, Material Strength Centre, Centre for Simulation, Environment Centre”
- Research projects
 - 2 On-going worth 41.18 lakhs
 - 23 Completed worth 1.26 crores



ELECTRICAL AND ELECTRONICS ENGINEERING

- 18 Ph.D. Holders & 8 faculty members pursuing
- University Ranks :
 - UG - 176 Ranks (13 First Ranks); PG - 40 Ranks (6 First Ranks)
 - Autonomous Ranks :UG - 66 Ranks; PG - 21 Ranks
- 11 Laboratories with equipment worth more than 2.5 Crores
- Research projects
 - 2 On-going worth 63.3 lakhs.
 - 12 Completed worth 96.02 lakhs.



ELECTRONICS AND COMMUNICATION ENGINEERING

- 22 Ph.D. Holders & 16 faculty members pursuing
- University Ranks :
 - UG - 144 Ranks (8 First Ranks); PG - 65 Ranks (7 First Ranks)
 - Autonomous Ranks :UG - 114 Ranks; PG - 40 Ranks
- MEPCO - Agilent R & D Centre of Excellence in “RF Circuit and Antenna Design” with equipment worth Rs.3.82 Crores
- RF Anechoic chamber setup with testing facility in the frequency range 800MHz to 18GHz worth of 20.3 lakhs
- 18 Laboratories with equipment worth 4.66 Crores, which includes 7 Laboratories with Institute-Industry Contribution
- Research projects
 - 7 On-going worth 119.945 lakhs
 - 37 Completed worth 253.766 lakhs



COMPUTER SCIENCE AND ENGINEERING

- 18 Ph.D. Holders & 17 faculty members pursuing
- University Ranks :
 - UG - 149 Ranks (8 First Ranks); PG - 49 Ranks (1 First Ranks)
 - Autonomous Ranks :UG - 66 Ranks; PG - 22 Ranks
- 11 Laboratories with equipment worth more than 1.85 Crores
- Research projects
 - 1 On-going worth 31.59 Lakhs
 - 5 Completed worth 23.1 Lakhs



MECHANICAL ENGINEERING

- 18 Ph.D. Holders & 18 faculty members pursuing
- University Ranks :
 - UG - 99 Ranks (7 First Ranks); PG - 35 Ranks (18 First Ranks)
 - Autonomous Ranks :UG - 72 Ranks;PG - 35 Ranks
- 27 Laboratories with equipment worth 7.35Crores
- TIFAC-CORE in Industrial Safety Engineering established with Rs.3.45 Crores
- MSME recognized Technology Business Incubator (TBI) Cell
- R&D Centre on Nano Technology with Equipment worth Rs.2.3 Crores
- Research projects
 - 4 On-going worth 83.84 lakhs
 - 40 Completed worth 3.77crores.

INFORMATION TECHNOLOGY

- 7 Ph.D. Holders & 4 faculty members pursuing
- University Ranks :
 - UG - 37 Ranks; PG - 1 Rank
 - Autonomous Ranks :UG - 25 Ranks
- 4 Laboratories and 1 research lab "Centre for Wireless Sensor Networks" with equipment worth more than 85lakhs.
- Research projects
 - 1 On-going worth 25.25 lakhs
 - 4 Completed worth 34.18 lakhs

BIO TECHNOLOGY

- 6 Ph.D. Holders & 8 faculty members pursuing
- University Ranks :
 - UG - 21 Ranks (1 First Rank); PG - 2 Ranks (1 First Rank)
 - Autonomous Ranks :UG - 24 Ranks;PG - 18 Ranks
- 11 Laboratories with equipment worth 3.8 Crores
- Industry oriented special courses (BioZEEN, Bangalore) and value-added courses to bridge academia-industry gap
- Student Internship at India and Abroad (CSIR labs, IISc Bangalore, IIT, CCMB Hyderabad, NCBS Bangalore, Zumutor Biologics Bangalore, Monsanto Bangalore, Dr Reddy's Laboratories Ltd Hyderabad, National University of Singapore)
- 43% of 2021 passed out students cleared competitive exams like GATE, TANCET, PTE and TOFEL

BIO MEDICAL ENGINEERING

- 4 Ph.D. Holders
- **State-of-art Infrastructure:**Biomedical Signal Processing Lab, Medical Image Analysis Lab, Pathology and Microbiology Lab, Human Physiology Lab, Biomedical Sensors & Instrumentation Lab, Biomechanics Lab, Medical Informatics Lab and Medical device design Lab

ARTIFICIAL INTELLIGENCE AND DATASCIENCE

- 4 Ph.D. Holders & 1 faculty member pursuing
- **State-of-art Infrastructure:**
 - Artificial Intelligence & Machine Learning Lab
 - Data Science/ Data Analytics Lab
 - Deep Learning Lab with proposed GPU support
 - Internet of Things (IoT) and Cloud Lab
- Research projects
 - 1 On-going worth 25.25 lakhs



SCIENCE & HUMANITIES

- 29 Ph.D. Holders & 14 faculty members pursuing
- 7 Laboratories with equipment worth more than 57lakhs
- Research projects
 - 2 on-going worth 22.39 lakhs
 - 22 Completed worth 2.79 crores



MASTER OF BUSINESS ADMINISTRATION

- 8 Ph.D. Holders & 5 faculty members pursuing
- 120 students intake with 3 Sections of 40 Students each
- 133rd Rank among Top Government & Private Business Schools in India (Business Today – MDRA Survey 2021)
- Exclusive Block with State of Art Infrastructure & flexible Curriculum with Choice Based Credit System
- Extensive Placement Support & Accelerated Academic Enhancement Scheme to facilitate placement
- Strong Alumni and Industry network
- Student Activity, Research Methodology Lab, Sales Lab for skill development
- Value added courses, special courses and online courses for broadening knowledge base
- Research projects worth 60.8 lakh from AICTE, ICSSR-IMPRESS



MASTER OF COMPUTER APPLICATIONS

- 2 years MCA Programme
- 3 Ph.D. Holders & 6 faculty members pursuing
- 27 University Ranks (1 First Rank) and 42 Autonomous Ranks
- Exclusive Computer Lab for MCA programme with 87 high end computers
- State of Art IoT and iOS Application Development Lab
- Curriculum includes theory and laboratory courses in Android application development, SOA & Cloud computing, Internet of Things, Software testing using automated tools, etc.
- MCA Alumni are working in reputed multi-national companies all over the world
- One ongoing ICMR project worth 14.63 lakh, one completed DRDO project and one completed AICTE project



PHYSICAL EDUCATION

- 2 faculty members are pursuing Ph.D.
- Multi-purpose indoor stadium with teak wood flooring to the international standard.
- Sports Pavilion and Gallery to accommodate 1000 spectators.
- Fitness centre for Boys and Girls separately.
- Roller skating ring
- 10 Mts Air Rifle shooting range with 19 lanes.
- A Yoga centre to accommodate 150 students at a time.
- New Multi Gym with advanced equipment in 3000sq.ft.
- Two synthetic tennis court under construction



LIBRARY

- 1,19,470 volume, 32,823 titles.
- 175 printed journals, 5470 e – journals from IEEE, ASCE, ASME, Elsevier Engineering & Computer Science, Elsevier Biotechnology and Proquest Management collection.
- Digital library with NPTEL lectures, e-books, AU-CFD materials, MIT materials, etc.,

Mepco Schlenk Engineering College (Autonomous), Sivakasi

Mepco Engineering College (PO) 626 005, Virudhunagar District, Tamilnadu.

Phone : 04562-235104 Fax : 04562-235111

Website : <http://www.mepcoeng.ac.in/> E-mail : msec@mepcoeng.ac.in