

DEPARTMENT OF

**ELECTRICAL &
ELECTRONICS
ENGINEERING**

First Self-financing Engineering College in Kerala to secure NAAC accreditation with 'A' Grade and NBA for prime departments.

M TECH



**POWER ELECTRONICS
AND POWER SYSTEMS**



ENERGY SYSTEMS

Stipend

₹ 5,000 p.m.

- ₹ 5,000/- per month for the program duration.
- Financial assistance of ₹ 1 lakh to start their own company, at the "Startups Valley TBI Amal Jyothi".



Highlights

- System on a Programmable Chip Laboratory
- Power Electronics Research Laboratory
- Energy System Research Laboratory
- Renewable Energy Laboratory
- Distributed Energy Laboratory
- NSDC Approved Solar Skill Training Centre
- Empanelled BEE consultants
- Energy Audit and Consultancy Services



**Advanced
Research Infrastructure**

- 200KW SOLAR POWER PLANT
- 12 OPERATIONAL LABORATORIES
- CENTRE FOR ENERGY MANAGEMENT
- POWER CONTROLLER DESIGN USING VLSI



Industry Tie Ups

1. MoU with C-DAC, Thiruvananthapuram
2. SIGMOS, Ernakulam
3. Athul Energy Consultants Pvt. Ltd



Our Entrepreneurs



**FOR MORE
DETAILS**

CONTACT

HEAD

Dept. of Electrical & Electronics Engineering
Amal Jyothi College of Engineering
Kanjirappally, Koovapally, Kottayam, Kerala-686518
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M TECH

AMAL JYOTHI
COLLEGE OF ENGINEERING
KANJIRAPPALLYENVIRONMENTAL
ENGINEERING

Environmental engineers play a central role in maintaining the balance between the natural systems and the fast paced development. Environmental engineers design systems, processes and policies to deal with problems such as providing safe drinking water, effective wastewater treatment, solid and hazardous waste management, air pollution control, various climatic issues and remediation of contaminated sites. Environmental engineering

is a highly interdisciplinary field, which builds on chemical, civil, mechanical and biotechnology engineering and many of the sciences, such as chemistry, microbiology, ecology, geology, hydrology and atmospheric science. Environmental engineering is and will play the crucial role for protecting our future.

An Environmental Engineer has got bright job prospects in today's world. Developing and implementing efficient and sustainable technologies for proper solid waste management and wastewater treatment are the need of the hour. Environmental engineers are needed in various government departments. Due to stringent rules, in private sector, all the process industries and other production units are required to take care of the wastes and emissions generated, which necessitates the service of an environmental engineer. They will be able to undertake a research career as well as lot of consultancy works.

Scholarship

₹ 12,400 p.m.

→ GATE qualified students

₹ 5,000 p.m.

→ Non-GATE students

→ Attractive financial assistance for budding entrepreneurs

NAAC
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL

'A' Grade

Duration
2 YearsOpportunity
of the
FUTURE

Thrust areas of teaching

- ▶ Physico-chemical Treatment Systems
- ▶ Biological Treatment Systems
- ▶ Environmental Chemistry and Microbiology
- ▶ Air Quality Monitoring and Control
- ▶ Solid and Hazardous Waste Management
- ▶ Environmental Impact Assessment
- ▶ Global Climate Changes and Disaster Management
- ▶ Environmental Analysis Lab

Research Areas

The department has a team of highly qualified faculty with experience in teaching, research and industry. The faculty members are well versed with current trends and technologies in the area and ample opportunities are available to carry out research activities in the following areas:

- ▶ Water and Wastewater treatment
- ▶ Waste Recycling
- ▶ Environmental Biotechnology
- ▶ Microbial Fuel Cells
- ▶ Biosensors and chemical sensors
- ▶ Biological process design for wastewater treatment
- ▶ Advanced Oxidation Processes
- ▶ Bioremediation
- ▶ Adsorption
- ▶ Bioprocess Engineering
- ▶ Nanomaterials
- ▶ Heavy Metal Remediation
- ▶ Biomass valorization

Research Facilities

☑ Gas Chromatograph ☑ UV-visible spectrophotometer ☑ Fluoride ion meter ☑ Bioreactor ☑ TKN Analyzer ☑ Laminar air flow chamber ☑ COD Digester ☑ BOD incubator ☑ Bacteriological incubator ☑ Flame Photometer ☑ Viscometer ☑ pH, conductivity and turbidity meter ☑ Centrifuge ☑ Hot air oven ☑ Autoclave



Eligibility

Candidates possessing a minimum of 60% aggregate marks in the B. Tech programs of Chemical Engineering, Biochemical Engineering, Biotechnology, Civil Engineering, Petroleum Engineering, Mechanical Engineering, Mechanical Engineering (Automobile), Metallurgical & Materials Engineering, Environmental Engineering, Food Technology, Food Engineering, Dairy Technology are eligible.



Candidates who have appeared for the final semester examination in June 2021 can also apply provided he/she has passed all the subjects up to seventh semester.



COLLEGE LOCATION



Amal Jyothi College of Engineering
Koovapally P.O., Kanjirappally
Kottayam District, Kerala-686518



FOR MORE DETAILS CONTACT

HEAD

Department of Chemical Engineering
Amal Jyothi College of Engineering

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hodch@amaljyothi.ac.in



www.ajce.in



M TECH NANOTECHNOLOGY

Fostering Innovations in Materials Science

M. Tech Nanotechnology program offers training in recent developments in the field of Nanoscience and Nanotechnology which equip the students to pursue their career goals in the vast field of materials science and it is interdisciplinary in nature.

Scholarship

₹ 12,400 p.m.

→ GATE qualified students

₹ 5,000 p.m.

→ Non-GATE students

100 %
Placement
Publications in
Scopus/Sci-Indexed
journals



Eligibility

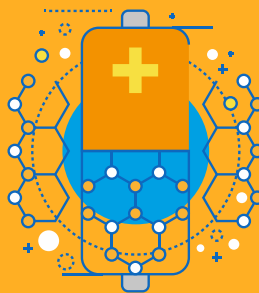
60% aggregate marks
in any of the B.Tech programs

- ◆ Nanotechnology ◆ Chemical Engineering
- ◆ Mechanical Engineering ◆ Electrical Engineering
- ◆ Electronics & Communication Engineering ◆ Civil Engineering
- ◆ Biotechnology ◆ Biochemical and Biotechnology ◆ Materials Science
- ◆ Applied Electronics ◆ Electronics & Instrumentation Engineering
- ◆ Instrumentation & Control Engineering ◆ Polymer Technology
- ◆ Rubber Technology ◆ Metallurgy



Research & Startup Facilities

- ACeNT Research Laboratories worth ₹1Crore
- Attractive financial assistance for budding entrepreneurs
- Core research on nanomaterials for advanced applications
- Research opportunities in Tribology, Energy materials, Nanomembranes, Separation and purification process, Water treatment, 3D printing, Electrospinning etc.
- Facilities for synthesis of nanoparticles and nanocomposites



Future
'**Nanoworld**'
waiting for you

ADMISSION
HOTLINE

+ 91 999 565 04 66



Amal Jyothi College of Engineering
Kanjirappally, Koovapally P.O. Kottayam
Kerala, Pincode: 686518
www.ajce.in



www.ajce.in/home/mtechadmissions.html



AMAL JYOTHI
COLLEGE OF ENGINEERING
KANJIRAPPALLY, KERALA, INDIA



M.TECH - COMMUNICATION ENGINEERING

POWERED BY **DEPT. OF ELECTRONICS & COMMUNICATION ENGG.**
(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION, INDIA [UG])

EARN WHILE YOU LEARN

Stipend of Rs. 5000/- per month for all students have no backlogs till the completion of course or 24 months whichever is less

&
Financial Support of Rs. 1 lakh for students to start their own company at Startups Valley TBI.

RESEARCH FACILITIES

4G/5G Simulation Lab
Augmented & Virtual Reality Lab
Advanced Communication Lab
Android Lab
System on Programmable Chip Lab
Robotics Lab
IoT & Embedded Systems Lab
Scientific Computing Lab

SKILL DEVELOPMENT BACKED BY INDUSTRY GIANTS



redhat.

**BEING AT THE
RIGHT PLACE
MATTER**

TALK TO THE ADMISSION COUNSELLOR: **9447370152**



AMAL JYOTHI
COLLEGE OF ENGINEERING
KANJIRAPPALLY, KERALA, INDIA



M.TECH - COMMUNICATION ENGINEERING

POWERED BY **DEPT. OF ELECTRONICS & COMMUNICATION ENGG.**
(ACCREDITED BY NATIONAL BOARD OF ACCREDITATION, INDIA [UG])

UNPARALLELED CAMPUS FOR ACADEMICS AND RESEARCH

STIPEND - 5000/- P.M.

GATE SCHOLARSHIP @ 12400 P.M.

TRAINING & PLACEMENT

GRANT OF 1 LAKH FOR STARTUPS

100% SCHOLARSHIP FOR ALUMNI

GATE SCHOLARSHIP @ 12400 P.M.

ELIGIBILITY CRITERIA - 60% SCORE IN B.TECH (ECE, AE&I, ETE, AE)

**BEING AT THE
RIGHT PLACE
MATTER**

**TALK TO THE
ADMISSION COUNSELLOR** **9447370152**

M TECH | Computer Science & Engineering



AMAL JYOTHI
COLLEGE OF ENGINEERING
KANJIRAPPALLY

NAAC
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL
'A' Grade

Gate scholarship @ ₹ 12400 per month

Eligibility criteria - 60% score
in BTech CSE/ IT

Teaching assistance

Research facilities

Get trained and get placed in MNC's

Provide guidance
and support for startups

Excellent hostel facilities

100% Scholarship for Alumni

Stipend ₹5,000 p.m.

"a pool of
opportunities waiting
for you"

CALL
for Admissions

9496 339 277

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AMAL JYOTHI COLLEGE OF ENGINEERING
KANJIRAPPALLY

M TECH | Computer Science & Engineering



AMAL JYOTHI
COLLEGE OF ENGINEERING
KANJIRAPPALLY

- ❖ Stipend of Rs. 5000/- per month for all students having no backlogs till the completion of the course or 24 months whichever is less.
- ❖ Financial assistance of ₹ 1 lakh for students to start their own company, at the "Startups Valley TBI Amal Jyothi" funded by DST, Govt of India.
- ❖ Research assistantships and tutorships based on availability.
- ❖ Research facilities @e-Yantra Lab, dedicated LoRaWAN connectivity by ICFOSS for high speed networking and IoT based projects.
- ❖ Placements offered in multinational companies.

Stipend ₹5,000 p.m.

Industry & Academic tie-ups



*"Waiting a pool
of opportunities
for you"*

**CALL
for Admissions**

9496 339 277

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AMAL JYOTHI COLLEGE OF ENGINEERING
KANJIRAPPALLY



AMAL JYOTHI
COLLEGE OF ENGINEERING
KANJIRAPPALLY

DEPARTMENT OF MECHANICAL ENGINEERING

M.Tech in MACHINE DESIGN



NAAC
NATIONAL ACADEMIC
ACCREDITATION COUNCIL
'A' GRADE

Stipend
Rs. 5000/month

MAJOR HIGHLIGHTS OF THE PROGRAM

The program core consists of Design of Mechanisms and Components using Analytical, Numerical and Experimental Approaches which equip students for professional careers in Design Industries, Academic and Research Organizations.



Stipend of Rs. 5000/- per month for all students having no backlogs till the completion of the course or 24 months, whichever is less.



Research facilities @ Additive manufacturing zone, Cryogenics lab (funded by ISRO), Sophisticated equipments like vibration analyzer, tribometer etc.



Financial assistance of Rs. 1 lakh for students to start their own company, at the "Startups Valley TBI Amal Jyothi" funded by DST Govt. of India.

Why AJCE?

- World-class infrastructure spread over 65 acres of campus with 16.5 lakh sq.ft. built-up area
- 13 Departments, 21 Programs, 22 Industry Tie-ups
- TBI with 32 start-ups funded by DST Govt. of India.
- Funded projects from DRDO, DST, ISRO, KSCSTE etc.
- Campus hostels have a capacity of 2500 inmates



AMAL JYOTHI COLLEGE OF ENGINEERING
Kanjirappally, Koovappally P.O.,
Kottayam Dt., Kerala 686518

For admission enquiry :
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🌐 www.amaljyothi.ac.in