



# COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

## 2025-2026 RECRUITMENT BROCHURE



## DEPT. OF POLYMER SCIENCE AND RUBBER TECHNOLOGY

[www.psrt.cusat.ac.in](http://www.psrt.cusat.ac.in)

# ABOUT CUSAT

Cochin University of Science and Technology (CUSAT), a distinguished public university situated in Kochi, Kerala, India, was established in 1971. Over the years, CUSAT has grown into a premier institution, offering a diverse range of undergraduate, postgraduate, and doctoral programs across fields such as science, engineering, technology, humanities, law, and management.

The university's expansive campus is equipped with state-of-the-art facilities, creating an ideal environment for learning and innovation. Renowned for its strong emphasis on research and development, CUSAT fosters interdisciplinary studies and knowledge exchange through its collaborations with prestigious national and international institutions.

**8500+**  
Students

**30+**  
Countries

**1590+**  
International  
Application

**50+**  
Programmes

**130+**  
Recruiters

**2500+**  
Placements





CUSAT's commitment to academic excellence and its vibrant cultural and social atmosphere attract students from all corners of India and around the globe. With its unwavering focus on advancing scientific and technological knowledge, CUSAT remains a beacon of academic and research excellence, continuing to make significant contributions to the region and beyond.

**A+**



**1**

**In Kerala** (QS World University Ranking)

**32**

**In India** (National Institutional Ranking Framework)

**401-600**

**In World** (QS World University Ranking)

**262**

**In Asia** (QS World University Ranking)

**29**

**In India** (QS World University Ranking)





## MESSAGE FROM HEAD OF THE DEPARTMENT

Grand greetings from the Department of Polymer Science and Rubber Technology.

The Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology is one of the leading institution in the country imparting higher education in the field of polymers. Ever since the inception in 1971, the Department has strived to excel in its mandate to mould world-class polymer technologists to serve the nation. That our UG and PG students now adore the key positions in leading industry and R & D laboratories in the country and abroad is a living testimony to the quality of our students and the trust that the leading industries have in us.

I am very excited that a new young and dynamic batch is getting ready to face the challenges of the polymer world. It is my great pleasure to invite you to our campus for a formal interaction or an online interaction with these young talents.

Please consider this brochure an invitation.

Thank you.

**Prof. (Dr.) Sailaja G S**  
Head of the Department  
[www.psrt.cusat.ac.in](http://www.psrt.cusat.ac.in)



# Dept. of P S & RT

## VISION

The Department wishes to see itself developing into a Centre of Excellence in Polymer Technology in the country by taking up collaborative Research and Development in frontier areas and strengthening in-house infrastructure facilities

## MISSION

To undertake research and development in the frontier areas the fruits of which will be beneficial to the society and the Nation and impart quality education and enhance professional skills for moulding globally competitive polymer technologists bestowed with universal human values

## QUALITY POLICY

Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology is committed to maintain and continually improve the state of the art infrastructure, research facilities and learning environment to provide quality education and training in Polymer Engineering. This could be achieved by catering to the changing and challenging needs of the society and industry and collaborating with industry and institutions/ organizations.



# A BRIEF PROFILE

Instituted in 1971, the Department of Polymer Science and Rubber technology is as old as the university. The B.Tech (Polymer Science and Rubber Technology) programme was started in collaboration with the Rubber Research Institute of India in 1972. The establishment of Research and Development wing in early 80's and introduction of M.Tech. (Polymer Technology) in 1985 were major milestones in the development of the Department. Both of these programmes have been approved by the AICTE. The Department believes in all-round quality and has been certified by ISO (ISO 9001 : 2015).

Well-qualified and competent faculty members and state-of-the-art facilities are the highlights of the Department. The faculty members trained in leading Universities in India and abroad with wide range of experience have published more than four hundred research publications in internationally reputed journals. So far 139 students have been awarded Ph.D. for their pioneering works in the field of polymer science and technology. Currently 38 students are pursuing their doctoral degree. The biennial international conference, Advances in Polymer Technology, organized by the Department gives the students an opportunity to interact with leading domestic and international polymer scientists, technologists and engineers. The Department is one of the five in the campus selected for the financial assistance under the MHO programme of the Netherlands.

The Department is being financially supported by FIST, SAP and DST PURSUE for undertaking major research and development works and for improving infrastructure facility. The other funding agencies who have supported major research projects of the Department include ISRO, DST, SERB, DBT, UGC, AICTE, BARC, NPOL, KSCSTE, and Volkswagen Foundation, Germany.



## FACULTY

What sets CUSAT apart from all other Engineering Colleges in India is its distinctive pedagogy. It's a unique blend of theoretical knowledge transfer and practical approaches, thus enabling Engineers to build a solid foundation while acquiring sufficient skills to comprehend optimal implementation of the same. Debate and interactive discussions are an integral part of our pedagogy. Our faculty, trained both from India and abroad, are considered to be some of the best in their fields. We also have prominent personalities from the industry taking sessions with the students on a regular basis to acquaint them with contemporary best practices existing in the industry.

**Prof.(Dr.) Sailaja G.S**  
*Head of the Department*

**Dr. Honey John**  
Professor

**Dr. Prasanth Raghavan**  
Professor

**Dr. Jayalatha Gopalakrishnan**  
Professor

**Dr. Jinu Jacob George**  
Associate Professor

**Dr. Abhitha K.**  
Assistant Professor

**Dr. Sari P.S.**  
Assistant Professor

**Dr. Thomas Kurian**  
Adjunct Professor

**Dr. Sunil K Narayanankutty**  
Adjunct Professor

**Dr. C. P. Reghunadhan Nair**  
Emeritus Professor (Former Director & Scientist of ISRO)

**Dr. Reji Jhon**  
Emeritus Professor

## OUTGOING BATCHES CONSIST OF

**B. Tech.**

**Boys 11**

**Girls 11**



## SEMESTER I

- ❖ Engineering Mathematics I
- ❖ Engineering Physics
- ❖ Engineering Chemistry
- ❖ Engineering Graphics
- ❖ Basic Electrical Engineering and Electronics
- ❖ Soft Skill Development
- ❖ Introduction to Industrial Chemical Analysis
- ❖ Language Lab

## SEMESTER II

- ❖ Engineering Mathematics II
- ❖ Engineering Mechanics
- ❖ Environmental studies
- ❖ Mechanical Engineering
- ❖ Introduction to Macromolecular Science and Engineering
- ❖ Fluid Mechanics
- ❖ Mechanical Engineering Workshop
- ❖ Polymer Synthesis

## SEMESTER III

- ❖ Engineering Mathematics III
- ❖ Natural Rubber Production and Technology
- ❖ Strength of Materials
- ❖ Heat and Mass Transfer
- ❖ Organic Chemistry
- ❖ Computer Programming
- ❖ Identification of Polymers
- ❖ Chemical Engineering Lab

## SEMESTER IV

- ❖ Applied Statistics
- ❖ Quality Management Systems and Safety
- ❖ Polymer Synthesis and Manufacture
- ❖ Science and Engineering of Rubbers
- ❖ Plastics Materials
- ❖ Universal Human Values
- ❖ Polymer Synthesis, Modification and Characterization Lab
- ❖ Review Seminar
- ❖ Seminar



## SEMESTER V

- ❖ Plastic Processing
- ❖ Polymer Physics
- ❖ Rubber Processing and Products Manufacture
- ❖ Fiber Science and Technology
- ❖ Polymer Characterization and Properties Lab
- ❖ Analysis of Rubber Compounds and Ingredients Lab
- ❖ Seminar

## SEMESTER VI

- ❖ Latex Technology
- ❖ Characterization and Testing Methods
- ❖ Polymer Products Design
- ❖ Polymer Rheology
- ❖ Minor Project
- ❖ Latex and Dry rubber Technology
- ❖ Seminar

## SEMESTER VII

- ❖ Polymer Composites and Blends
- ❖ Introduction to Mould and Die Design
- ❖ Failure Analysis of Polymers
- ❖ Industrial Management
- ❖ Elective V – Tyre Technology/Polymer Process Modelling And Simulation/Smart and Intelligent Polymers
- ❖ Elective VI – Polymers in Space/Polymer Nanocomposites/Professional Ethics in Engineering
- ❖ Review paper based on Elective
- ❖ Soft Skill/Start up Workshop

## SEMESTER VIII

- ❖ Project Work Report and Viva Voce
- ❖ Industrial Training
- ❖ Open Elective I
- ❖ Open Elective II



# PROFESSIONAL ELECTIVES

- ◇ Tyre Technology
- ◇ Paints and Surface Coatings
- ◇ Adhesives Technology
- ◇ Polymers for packaging
- ◇ Polymers for Electrical & Electronics Applications
- ◇ Specialty Polymers
- ◇ Polymers in Space
- ◇ Polymer nanocomposites
- ◇ Introduction to Biomaterials and Medical Devices
- ◇ Smart and intelligent polymers
- ◇ Footwear Technology
- ◇ Disaster Management
- ◇ Biodegradable Polymers
- ◇ Polymers and Environment
- ◇ Polymer Recycling
- ◇ Materials Science
- ◇ Polymer process modelling and simulation
- ◇ Professional Ethics in Engineering



# RESEARCH AT P S & R T

## ENERGY HARVEST & STORAGE

- Supercapacitors
- Polymer & Organic Radical Batteries
- Triboelectric Nanogenerators

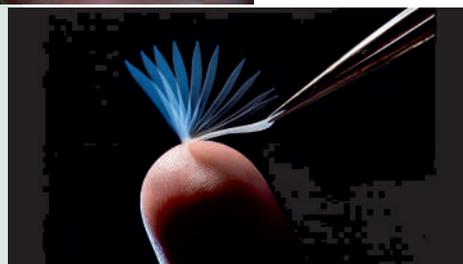
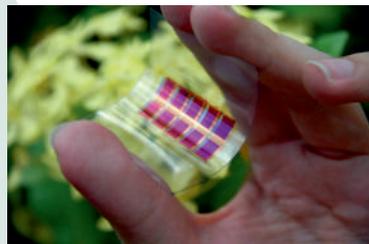


## BIOMATERIALS, DEVICES & APPLICATIONS

- Biomimetics & Biomedical Applications
- Cancer Detection & Therapy
- Tissue/ bone Regeneration
- Controlled & Targetted Drug Delivery

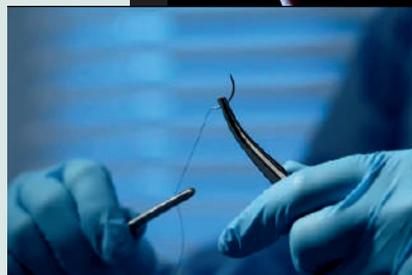
## NANOMATERIALS, COMPOSITES & DEVICES

- Surface Engineered Materials
- Photocatalysis
- EMI shielding
- Conducting composites
- Sensors



## RUBBER TECHNOLOGY

- Green Synthesis & Compounds
- Natural Fiber Composites
- Novel Compound Design
- Recycling



# STUDENT DEVELOPMENT PROGRAMMES

## Rubber Research Institute India (RRII), Kottayam

- ▶ Natural rubber (dry and latex) testing and specifications.
- ▶ Preparation of dispersion and emulsions.
- ▶ Mooney viscosity determination of rubber, their curing characteristics, creaming of NR latex.
- ▶ Rubber bands, balloons, gloves, foams, M C sheets, playballs, teats

## CIPET-IPT Central Institute of Petrochemicals Engineering and Technology

- ▶ Basic history of plastics, their classification, processing techniques
- ▶ Various plastic moulding processes.
- ▶ Product design identification processes
- ▶ Plastic testing and quality control to Biopolymers and their application
- ▶ Plastic recycling technology, and the entrepreneurship in the polymer sector.

## EPOCH 19

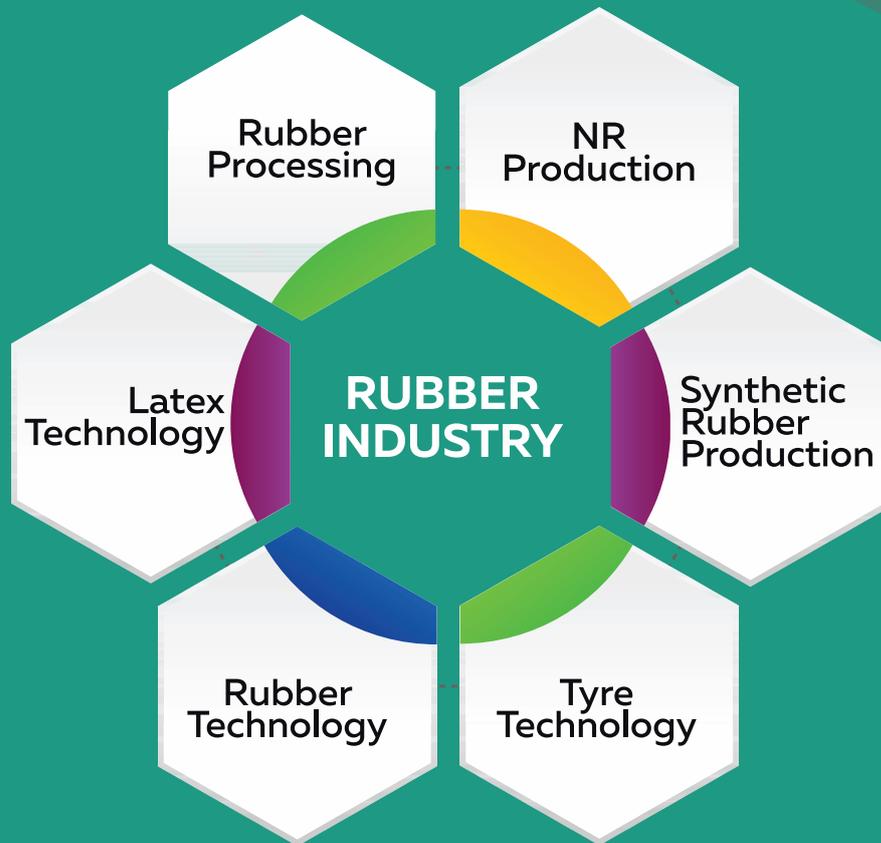
Epoch 19 is a science exhibition conducted by our department on March 1 focussing on beneficial uses of polymers. The main ideology was to spread awareness of various methods to recycle and reuse plastic products without harming the environment. The exhibition conducted on World Science Day, showcased the use of plastics from plastic bottles to rocket parts and heart valves toys and aircrafts. We were also successful in conveying the message that plastic becomes an environment pollutant when mixed with food wastes, and the problem could be tackled either by segregating it or reusing it.

## EPOCH 24

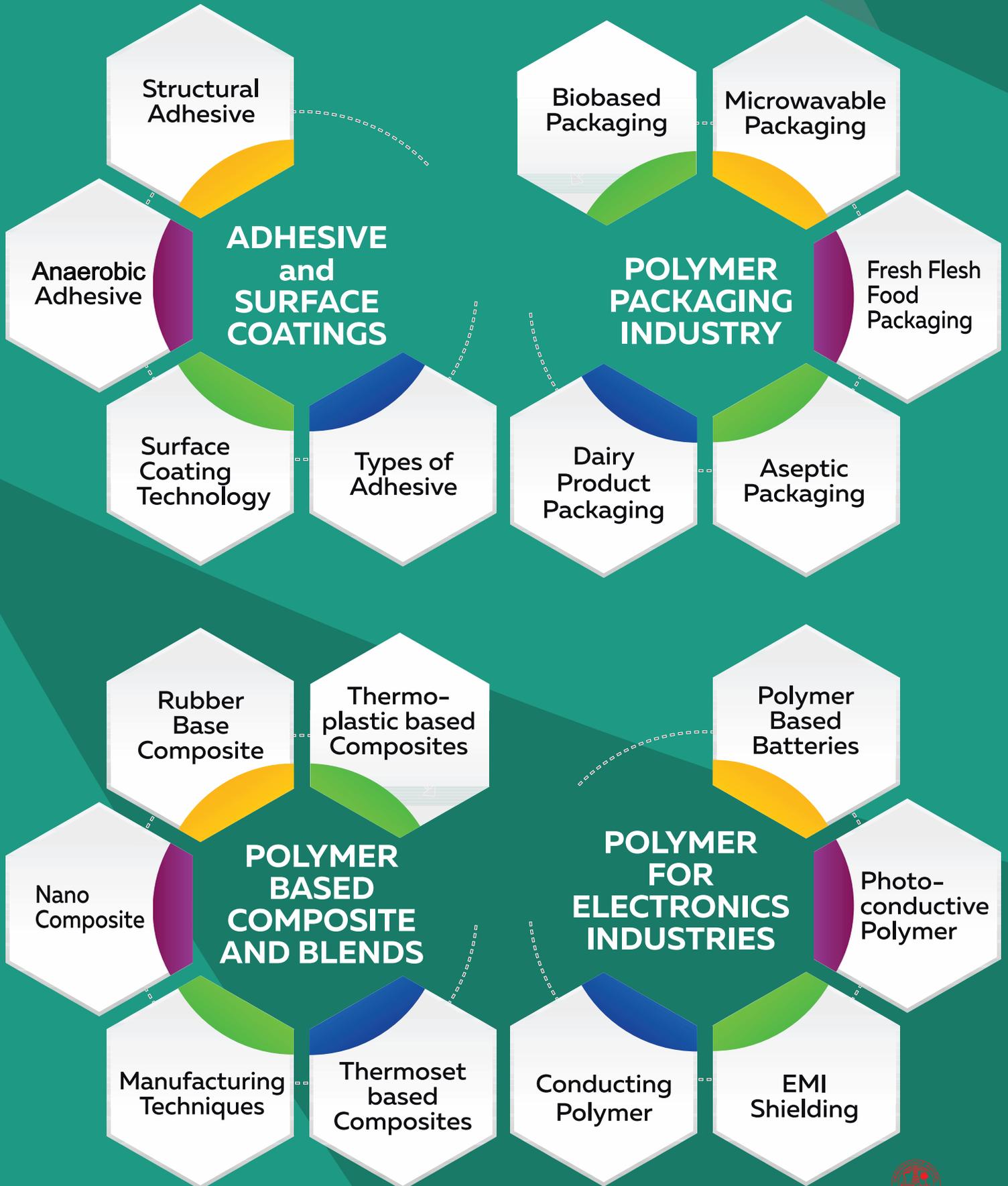
EPOCH 2024, organized by the Department of Polymer Science & Rubber Technology at CUSAT, was held on October 29 and 30, focusing on "Materials for Sustainable Development." The event featured keynote speeches by renowned experts including Prof. Kuruvilla Joseph, Dr. Bhoje Gowd E., and others from premier institutions. These speakers shared insights into recent advances and applications in polymer technology aimed at sustainability. The program included technical sessions and exhibitions to inspire students and researchers in polymer science. It was a platform for fostering collaboration between academia and industry, with active participation from alumni.



# COURSE INPUTS FOR VARIOUS INDUSTRIES

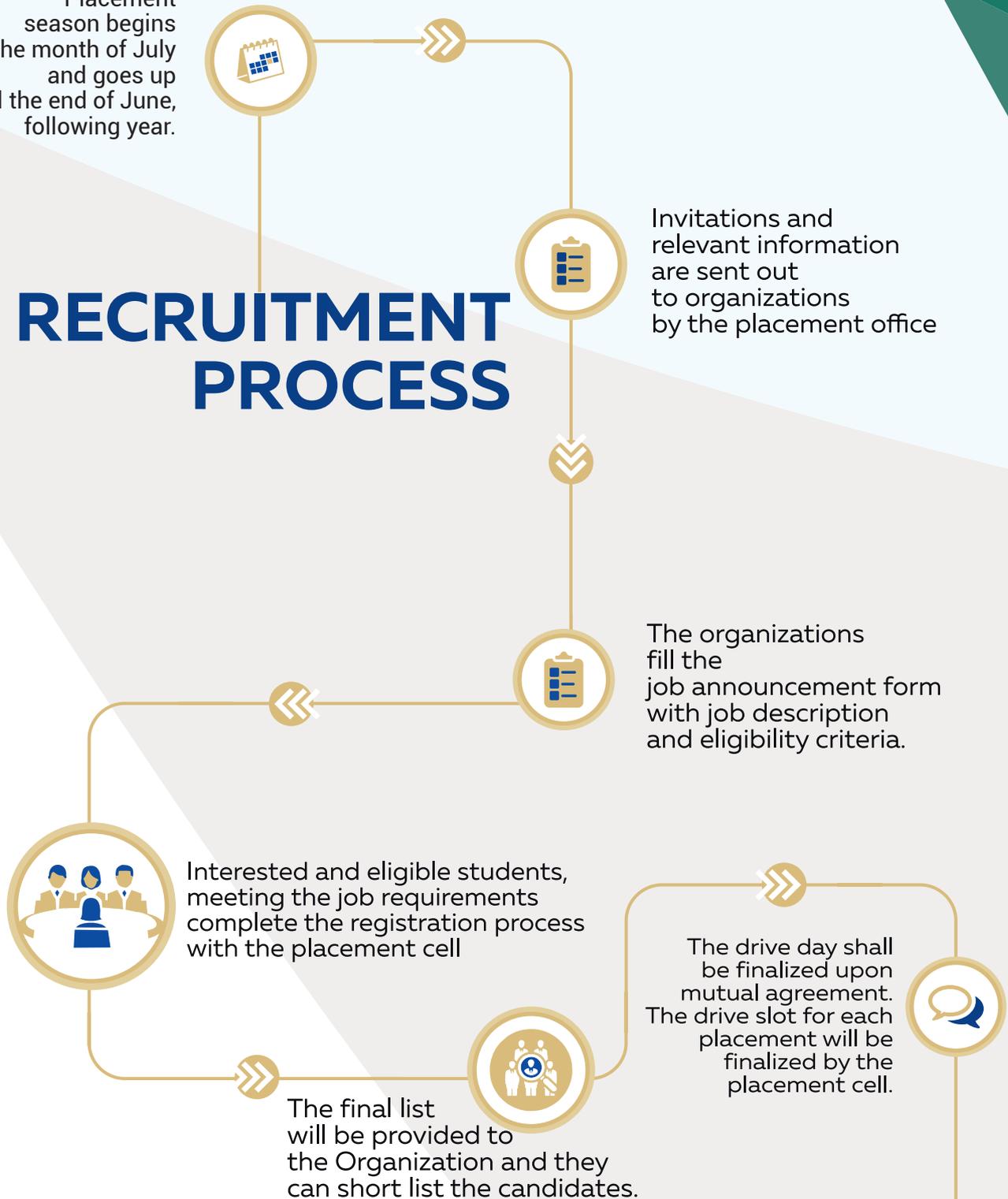


# COURSE INPUTS FOR VARIOUS INDUSTRIES



Placement season begins in the month of July and goes up till the end of June, following year.

# RECRUITMENT PROCESS



# CAREER DEVELOPMENT AND PLACEMENT COMMITTEE



**Dr. Deepa Balakrishnan**  
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# PAST RECRUITERS



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**asianpaints**

**apollo**



**Reliance  
Industries Limited**



TOTAL CONTROL

**YOKOHAMA**

**AS**

*Adhesive Specialities*

**MOMENTIVE™**

inventing possibilities

**Academor**

**ExxonMobil**

**CEAT**

**3M**

**BKT**

GROWING TOGETHER

**SRF**

**TERUMO PENPOL™**

**Biocon**



**MRF**



**GREEN  
WORMS**

Let's unWaste



**runaya**

**BIRLA  
TYRES**  
Unbeatable!





## REACH US



Nearest Airport :-  
Cochin International Airport - 19km



Nearest Railway Stations:-  
Aluva - 9km  
Ernakulam Town - 9km  
Ernakulam Junction - 13km



Nearest metro station:-  
Cochin University metro station : 1km



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