Executive Post Graduate
Programme in
Embedded system and IoT
—
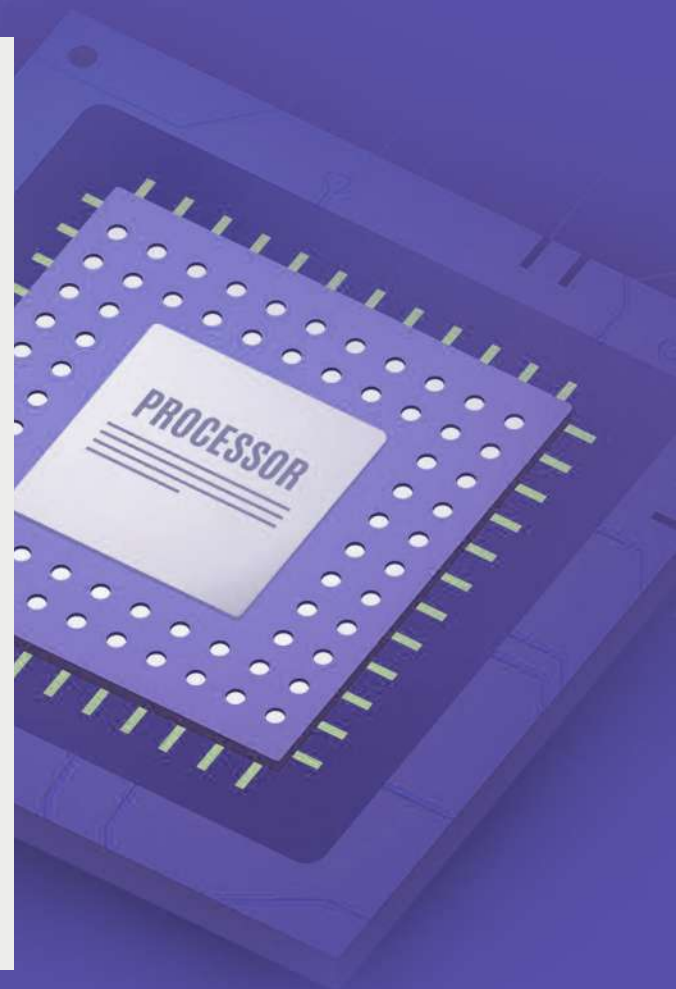Duration - 2.5 Years

CONTENT

Information Brochure

ABOUT THE PROGRAMME

The M.Tech with Embedded Systems IoT program is an integrated study of dealing with advanced solutions related to research innovation required for the industries related to Embedded Systems design with its application in Internet of Things. This programme will cover the fundamentals and advanced techniques of designing and developing smart automation systems, smart devices, smart city project and versatile use of embedded system with the punch of IoT in all engineering branches. The curriculum is designed to develop hands-on skills for designing IoT architect systems using embedded systems.

INDUSTRY PARTNER

TATA CONSULTANCY SERVICES

LABORATORY REQUIREMENT

- Advanced Digital Design Lab
- Embedded Processors & Microcontroller Lab
- Embedded OS & Device Drivers Lab
- IoT Sensors & Actuators Lab
- Simulation and Modeling Lab

ABOUT THE INSTITUTE

Indian Institute of Information Technology (IIIT) Ranchi is an Institute of National Importance under the Act of Parliament of India established in 2016. The major objective was to set up a model of education which could produce best in class human resources in IT and harness the multidimensional facets of information technology in various domains.

Indian Institute of Information Technology, Ranchi (IIIT Ranchi), is one of the Indian Institutes of Information Technology, a group of 25 Interdisciplinary Technical Universities of higher education started by Government of India, focused on Information Technology. It is an "Institute of National Importance", declared by an act of parliament.

Indian Institute of Information Technology Ranchi is an autonomous institute setup by the MoE, Government of India, and Government of Jharkhand along with the industry partners TTL, TCS and CCL on a Public Private Partnership.

The IIIT Ranchi is funded by Government of India (50%), Government of Jharkhand (35%) and Industry Partners (15%).

IIIT Ranchi will be one of the leading Institutes in India for its academic excellence and good governance.

CORE COURSES

- Advanced Digital Design

- Embedded Processors & Microcontroller

- Embedded OS & Device Drivers

- IoT Sensors & Actuators

ELECTIVE COURSES

- Data Analytics for IoT

- IoT Architecture & Computing

- Stochastic Processes and Queuing Theory

- SCADA Systems Applications

- Real-time operating system (RTOS)

CREDIT REQUIREMENTS

SEMESTER	CREDITS
I	14
II	14
III	13
IV	14
V	16
TOTAL	71

RESOURCE PERSON

The faculty members for the programme will include experts from IIIT Ranchi, IITs, NITs and reputed academic/research organizations/industry.

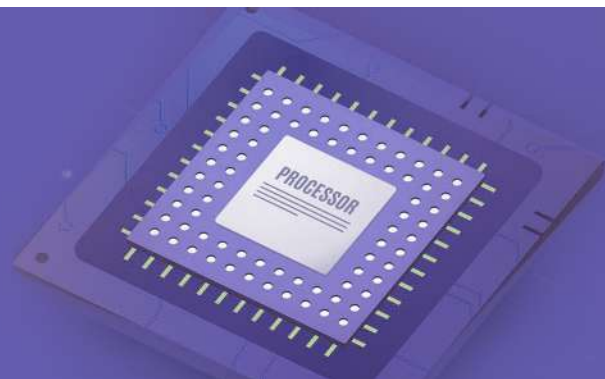**FILL THE REGISTRATION FORM TO APPLY**

CONTACT DETAILS

Dr. Rajiv Kumar (Programme Co-ordinator)

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✉️ rajiv@iiitranchi.ac.in

Embedded System And IoT

IMPORTANT DATES

PROCESS	DATE
Beginning of online application process	25.10.2022
Application Deadline	05.12.2022
Announcement of provisional shortlisted candidate	15.12.2022
Date for interview	28.12.2022
Declaration of result	29.12.2022
Fee payment deadline	02.01.2023
Date of Admission	03.01.2023
Registration and Commencement of classes	05.01.2023