



# **RAJARAJESWARI COLLEGE OF ENGINEERING**

**(Under the auspices of the Moogambigai Charitable and Educational Trust)**

(Affiliated to the Visvesvaraya Technological University, Belgaum)

(Recognized by the AICTE, New Delhi)

#14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru-560074.

Phone: +91-80-28437124, +91-28437375, Fax: +91-80-2843 7373, [www.rce.org](http://www.rce.org)



## **DEPARTMENT OF MECHANICAL ENGINEERING**

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**Date: 11/06/2017**

### **Circular**

It is hereby informed to all the faculty members that the department is organizing 5 days FDP on the topic “**Industrial Automation and Robot Technology**” from 21<sup>st</sup> to 25<sup>th</sup> June 2017. All are requested to attend the FDP and make better utilization of the recourse person and opportunity.

Coordinators

HoD - ME



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## DEPARTMENT OF MECHANICAL ENGINEERING

### 5 Days Faculty Development Program on “Industrial Automation and Robot Technology” 21<sup>st</sup> to 25<sup>th</sup> June 2017

Sl. No.	Topic	Resource Person	Date & Time
	<b>Inauguration and Welcome 9:00 to 10:15</b>		
1	Automation in Production Systems	Ms. Umesh Namdeo Manager, Britannia Industries Ltd.	21 <sup>st</sup> June 2017 10:30 to 12:30
2	Automated Material Handling Systems	Mr. Parasuraman Business Development Engineer, Axis Global Institute of Industrial Training,	21 <sup>st</sup> June 2017 2:00 to 3:30
3	Computerized Planning and Control Systems	Mr. Bhat Manager, FouressEngg. (I) Pvt. Ltd.	22 <sup>nd</sup> June 2017 9:30 to 11:00
4	Inspection and Quality Control in Automated Systems.	Mr. Rajanna Operations – Manager, Mondelez India foods private limited.	22 <sup>nd</sup> June 2017 11:30 to 1:00
5	Productivity through Material Requirement Planning	Mr. Rajanna Operations – Manager, Mondelez India foods private limited.	22 <sup>nd</sup> June 2017 2:00 to 3:30
6	Flexible Manufacturing System	Dr. H V Ravindra, HoD-PESCE, Mandya.	23 <sup>rd</sup> June 2017 9:30 to 11:00
7	Understanding Machining Centers in Manufacturing.	Dr. H V Ravindra, HoD-PESCE, Mandya.	23 <sup>rd</sup> June 2017 11:30 to 1:00
8	Robot Technology	Mr. Chakraraj Udupa Head, Future Robotics & Automation	23 <sup>rd</sup> June 2017 2:00 to 3:30
9	<b>24<sup>th</sup> June 2017: Britannia Industries Ltd. Bengaluru.</b>		
10	Sensors in Robotics	Mr. Chakraraj Udupa Head, Future Robotics & Automation	25 <sup>th</sup> June 2017 9:30 to 11:00
11	Industrial Application of Hydraulic and Pneumatics.	Prof. Pramod V K Assoc. Prof, RRCE.	25 <sup>th</sup> June 2017 11:30 to 1:00
	<b>Valedictory and feedback session 2:00 to 3:30</b>		



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#### Program Report

On day 1 Mr. Umesh highlighted the essence of automated technology in manufacturing system to achieve the best possible planning and control in a manufacturing environment. Mr. Parasuraman stressed the efficiency of automated transportation, reducing or eliminating the need for human to check in, check out, sort material or to move the workpart to different location.

On day 2 Mr. Bhat emphasized the use of computer technology to aid in the process planning of a part or product in manufacturing. Described PPC a link between CAD – CAM. Mr. Rajanna highlighted the difference between inspection and quality control, where inspection is a way or method of maintaining the quality of the object, while quality control is a term involving inspection at various stages of production. Also discussed that MRP as a computer-based inventory mgmt. system will help to improve productivity of business.

On day 3 Dr. H V Ravindra, explained FMS as a production method which will easily adopt to any changes in product design in production system. With CNC machine tools configured to manufacture a variety of change in product design and also the level of production. Mr. Chakravaraj Udupa described robot technology as interdisciplinary sector of science and engineering that give robots their potential to use in various sectors of manufacturing like material handling, assembly, inspection and processing.

On the day 4 industrial visit to Britannia Industries Ltd. Bangalore who are in to manufacturing biscuits of different variety.

On the day 5 Mr. Chakravaraj Udupa and Prof. Pramod V K highlighted sensors as key component of a robot. Based on the field of application, specific sensors are used. While the use of pneumatic and hydraulic system in automated technology helps in electronically controlled fluid power system.



**Coordinator**

**HoD - ME**