



# PVKK INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to JNTUA, Anantapuramu.  
(Established under Sri Balaji Educational Society, Anantapuramu)

## Department of Mechanical Engineering

### CIRCULAR

Date: 12-11-2019

Department of ME in association with "Ram Engineering And Controls" (REC), is organizing a one-week Faculty Development Program on "Mechatronics and Control Systems" during 24-11-2019 to 28-11-2019. To register for this FDP contact convener S. Jithendra Naik, Phone Number 9908935641. Limited Seats Available for the Program and the selection is based on First Come First Serve basis.

#### Resource Persons/ Speakers:

Name of the Person	Designation
Dr. G. Maruthi Prasad Yadav	Dr. G. Maruthi Prasad Yadav Professor RGM CET, Nandyal

Venue: ME Department Seminar Hall, PVKKIT.

Timings: 9:30 A.M to 1:00 P.M

1.00.PM to 2.00 PM -Lunch Break

2:00 P.M to 4:30 P.M

#### Copy to:

1. The Principal,
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4. Dept. File
5. To all other engineering Colleges

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PVKK Institute of Technology  
ANANTHAPURAMU-515 00.

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## Department of Mechanical Engineering

### Report on Faculty Development Program

<b>Academic Year</b>	2019-20	<b>Venue</b>	ME Department Seminar hall, PVKKIT
<b>Name of the Course</b>	one-week Faculty Development Program on "Mechatronics and Control Systems" in association with "Ram Engineering and Controls" (REC)	<b>Duration</b>	One week
<b>Trainer</b>	Dr. G. Maruthi Prasad Yadav Professor RGM CET, Nandyal	<b>Date</b>	24-11-2019 To 28-11-2019
<b>Faculty Co-ordinator 1</b>	Ms. B. Monika	<b>Time</b>	FN-9:30AM to 1:00PM AN-2:00PM to 4:30PM
<b>Faculty Co-ordinator 2</b>	Ms. C. Triveni	<b>Total Sessions/Total Hours</b>	30 Hours
<b>Convener</b>	Mr.S. Jithendra naik		

#### Aim of the programme :

The aim of a one-week Faculty Development Program on "Mechatronics and Control Systems" is to provide educators, particularly faculty members in engineering and related disciplines, with the knowledge, skills, and resources they need to enhance their expertise in the field of mechatronics and control systems. Here are some specific objectives and goals of such a program:

**Knowledge Enhancement:** To equip faculty members with a comprehensive understanding of mechatronics, which is the integration of mechanical engineering, electronics, computer

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science, and control engineering. This includes a deep dive into the principles and concepts that underpin mechatronic systems.

**Control Systems Understanding:** To provide in-depth knowledge of control systems, both theory, and practical applications. This involves topics such as PID controllers, state-space analysis, and feedback control.

**Hands-on Training:** To offer practical, hands-on experience with mechatronic systems and control system design. This might include using software tools and hardware platforms for simulation and experimentation.

**Interdisciplinary Approach:** Encourage a cross-disciplinary approach by helping faculty understand the interplay between mechanical, electronic, and software components in mechatronic systems.

**Curriculum Development:** Assist faculty in developing or revising curriculum and course materials related to mechatronics and control systems, ensuring that they are up-to-date and aligned with industry standards.

**Teaching Methodology:** Provide guidance on effective teaching methodologies and pedagogical techniques that can be used to engage students in mechatronics and control systems courses.

**Research and Innovation:** Encourage and support faculty to engage in research and innovation in mechatronics and control systems, fostering a culture of exploration and development.

**Industry Interaction:** Facilitate interactions between faculty and industry experts to keep them updated on the latest advancements and real-world applications of mechatronics and control systems.

**Assessment and Evaluation:** Help faculty develop effective assessment methods for evaluating student learning outcomes in mechatronics and control systems courses.

**Dissemination of Knowledge:** Encourage faculty to share their knowledge and experiences with their peers and students, contributing to the broader educational community.

**Certification:** Provide certification or recognition to the participating faculty, which can be used for professional development and career advancement.

## **Indicative Topics:**

- Introduction to Mechatronics and Control Systems
- Control Systems Fundamentals
- Sensors and Actuators
- Programming and Microcontroller Integration
- Modeling and Simulation
- Control System Design
- Integration and Applications

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## Expected outcomes:

After completion of the FDP, participants

**Enhanced Understanding:** Participants should gain a comprehensive understanding of mechatronics and control systems, including the fundamental principles, components, and the interdisciplinary nature of these fields.

**Proficiency in Control Systems:** Participants should be proficient in control systems theory, with the ability to analyze and design control systems using concepts like PID controllers, state-space analysis, and feedback control.

**Hands-on Experience:** Participants should gain practical experience through hands-on exercises and demonstrations, allowing them to work with mechatronic systems, sensors, actuators, and microcontrollers.

**Curriculum Development:** Faculty members should be able to develop or revise curriculum materials for mechatronics and control systems courses, ensuring they align with industry standards and are engaging for students.

**Effective Teaching Methods:** Participants should acquire knowledge of effective teaching methodologies and pedagogical techniques for delivering mechatronics and control systems courses, making their teaching more engaging and accessible to students.

**Research and Innovation Skills:** Faculty members should be encouraged to engage in research and innovation in mechatronics and control systems, and they should have the skills and inspiration to conduct meaningful research in these areas.

**Application Knowledge:** Participants should be able to apply mechatronics and control systems concepts to various real-world applications, including industries such as robotics, automation, automotive, and healthcare.

**Interdisciplinary Collaboration:** Faculty members should understand the importance of interdisciplinary collaboration in mechatronics and be prepared to work effectively with colleagues from different disciplines.

**Course Development:** Participants should be able to develop and deliver courses related to mechatronics and control systems, with the ability to design projects, assessments, and hands-on activities.

**Assessment and Evaluation:** Faculty members should be able to create effective assessment methods to evaluate student learning outcomes in mechatronics and control systems courses.

**Dissemination of Knowledge:** Participants should be encouraged to share their knowledge and experiences with their peers and students, contributing to the broader educational community.





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**Certification and Recognition:** Participants may receive certification or recognition upon completing the program, which can be used for professional development and career advancement.

**Duration:** The duration of this FDP will be 5 consecutive days, with 6 hours per a total of 30 hours properly divided into theory and hands on sessions.

**Certification Policy:**

- Certificate of Merit for all the FDP participants.
- At the end of this FDP, a small competition will be organized among the participating Faculties and winners will be awarded with a prize.

Signature of the Convener

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## Department of Mechanical Engineering

### Participants Registration Sheet

1. Title of the Program/ Workshop : One-week Faculty Development Program on  
"Mechatronics and Control Systems"
2. Date : 24-11-2019 to 28-11-2019
3. Academic Year : 2019-20
4. Venue : Department Seminar Hall
5. Organized by : Department of ME in association with "Ram Engineering  
And Controls" (REC)
6. Convener : Mr. S. Jithendra Naik,, Assistant Professor of ME

S. NO	Name of the Faculty	Designation	Name of the institute	Signature
1.	Mr. N.Karthikeyan	Assistant Professor	PVKKIT	
2.	Mr. U.Mahaboob Basha	Assistant Professor	PVKKIT	
3.	Mr. V.Manunatha Reddy	Assistant Professor	PVKKIT	
4.	Ms. B.Monika	Assistant Professor	PVKKIT	
5.	Ms. C.Triveni	Assistant Professor	PVKKIT	
6.	Ms. M.Hari Priya	Assistant Professor	PVKKIT	
7.	Mr. K.Manohar Reddy	Assistant Professor	PVKKIT	
8.	Mr. S.Ramanjineyulu	Assistant Professor	PVKKIT	
9.	Mr. N.Sreekanth Rao	Assistant Professor	PVKKIT	
10.	Mr. B.Gopal	Assistant Professor	PVKKIT	
11.	Mr. N Sreenivasulu	Assistant Professor	PVKKIT	
12.	Ms. U.Anitha	Assistant Professor	PVKKIT	
13.	Ms. D.Sowbhagya	Assistant Professor	PVKKIT	
14.	Mr. G.Purushottam	Assistant Professor	PVKKIT	
15.	Mr. G.Janardhan	Assistant Professor	PVKKIT	
16.	Mr. K.Vijay Kumar	Assistant Professor	PVKKIT	
17.	Mr. K.Mahesh	Assistant Professor	PVKKIT	
18.	Ms. D.R. Madhuri	Assistant Professor	PVKKIT	
19.	Ms. G.Vani Prathibha	Assistant Professor	PVKKIT	
20.	Ms. S.Pranavi	Assistant Professor	PVKKIT	

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21.	Mr. K. Viswanath	Assistant Professor	PVKKIT	<i>[Signature]</i>
22.	Mr. Badigi Madan Gopal	Assistant Professor	PVKKIT	<i>B. Madan Gopal</i>
23.	Mr. K Suresh	Assistant Professor	PVKKIT	<i>[Signature]</i>
24.	Dr. P. Karthikeyan	Professor	PVKKIT	<i>Karthik</i>
25.	Dr. S. Kumar	Professor	PVKKIT	<i>S. Kumar</i>
26.	Dr. A. Srikantha Gowd	Professor	PVKKIT	<i>A. S.</i>
27.	Mr. T. Akhil Kumar	Assistant Professor	PVKKIT	<i>Akhil</i>
28.	Mr. B. Venkat Reddy	Assistant Professor	PVKKIT	<i>Venkat</i>
29.	Mrs. T. Keerthi Priya	Assistant Professor	SRIT	<i>K. Priya</i>
30.	Mr. A. V. Manohar Reddy	Assistant Professor	SRIT	<i>A. V. Manohar</i>
31.	Mr. C. Ravi Teja	Assistant Professor	SRIT	<i>[Signature]</i>
32.	Mr. M. Sivalingamaiah	Assistant Professor	SRIT	<i>[Signature]</i>
33.	Mr. C. Thippeswamy	Assistant Professor	SRIT	<i>[Signature]</i>
34.	Mr. C. Murali Mohan	Assistant Professor	SVIT	<i>Murali</i>
35.	Mr. C. H. Ram Mohan	Assistant Professor	SVIT	<i>[Signature]</i>
36.	Mr. L. Rangaswamy	Assistant Professor	SVIT	<i>[Signature]</i>
37.	Mr. J. Naveen Kumar	Assistant Professor	GATE	<i>[Signature]</i>
38.	Mr. S. Tanveer Ahmed	Assistant Professor	GATE	<i>T. Ahmed</i>
39.	Mrs. M. Padmaja	Assistant Professor	GATE	<i>padma</i>
40.	Ms. P. Thahira Rizwana	Assistant Professor	GATE	<i>[Signature]</i>
41.	Mr. R. K. Thanush	Assistant Professor	ALTS	<i>Thanush</i>
42.	Mr. N. Yerriswamy	Assistant Professor	ALTS	<i>[Signature]</i>
43.	Ms. K. Gowthami	Assistant Professor	ALTS	<i>[Signature]</i>

*[Signature]*  
Convener

*[Signature]*  
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### Participants Attendance Sheet

1. Title of the Program/ Workshop : One-week Faculty Development Program on  
"Mechatronics and Control Systems"
2. Date : 24-11-2019 to 28-11-2019
3. Academic Year : 2019-20
4. Venue : Department Seminar Hall
5. Organized by : Department of ME in association with "Ram Engineering  
and Controls" (REC)
6. Convener : Mr. S. Jithendra Naik, Associate Professor of ME

S. NO	Name of the Faculty	Name of the institute	Day 1	Day 2	Day 3	Day 4	Day 5
1.	Mr. N.Karthikeyan	PVKKIT	NK	NK	NK	NK	NK
2.	Mr. U.Mahaboob Basha	PVKKIT	U Mahaboob Basha	U Mahaboob Basha	U Mahaboob Basha	U Mahaboob Basha	U Mahaboob Basha
3.	Mr. V.Manunatha Reddy	PVKKIT	M	M	M	M	M
4.	Ms. B.Monika	PVKKIT	Monika	Monika	Monika	Monika	Monika
5.	Ms. C.Triveni	PVKKIT	Cit	Cit	Cit	Cit	Cit
6.	Ms. M.Hari Priya	PVKKIT	H	H	H	H	H
7.	Mr. K.Manohar Reddy	PVKKIT	M	M	M	M	M
8.	Mr. S.RAMANJINEYULU	PVKKIT	Ranjiv	Ranjiv	Ranjiv	Ranjiv	Ranjiv
9.	Mr. N.SREEKANTH RAO	PVKKIT	S.Rao	S.Rao	S.Rao	S.Rao	S.Rao
10.	Mr. B.GOPAL	PVKKIT	Gopal	Gopal	Gopal	Gopal	Gopal
11.	Mr. N SREENIVASULU	PVKKIT	Sreeniva	Sreeniva	Sreeniva	Sreeniva	Sreeniva
12.	Ms. U.ANITHA	PVKKIT	Anitha	Anitha	Anitha	Anitha	Anitha
13.	Ms. D.SOWBHAGYA	PVKKIT	Sud	Sud	Sud	Sud	Sud
14.	Mr. G.PURUSHOTTAM	PVKKIT	Purushottam	Purushottam	Purushottam	Purushottam	Purushottam
15.	Mr. G.JANARDHAN	PVKKIT	Janardhan	Janardhan	Janardhan	Janardhan	Janardhan
16.	Mr. K.VIJAY KUMAR	PVKKIT	Vijay	Vijay	Vijay	Vijay	Vijay
17.	Mr. K.MAHESH	PVKKIT	Mehar	Mehar	Mehar	Mehar	Mehar
18.	Ms. D.R. MADHURI	PVKKIT	P.R.M	P.R.M	P.R.M	P.R.M	P.R.M
19.	Ms. G.Vani Prathibha	PVKKIT	Prathibha	Prathibha	Prathibha	Prathibha	Prathibha
20.	Ms. S.Pranavi	PVKKIT	P	P	P	P	P
21.	Mr. K.Viswanath	PVKKIT	V	V	V	V	V
22.	Mr. Badigi Madan Gopal	PVKKIT	Badalipal	Badalipal	Badalipal	Badalipal	Badalipal
23.	Mr. K Suresh	PVKKIT	S	S	S	S	S
24.	Dr. P. Karthikeyan	PVKKIT	Karthik	Karthik	Karthik	Karthik	Karthik
25.	Dr. S. Kumar	PVKKIT					





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26.	Dr.A.Srikantha Gowd	PVKKIT	<del>As</del>	<del>As</del>	<del>As</del>	<del>As</del>	<del>As</del>
27.	Mr. T.Akhil Kumar	PVKKIT	<del>Akhil</del>	<del>Akhil</del>	<del>Akhil</del>	<del>Akhil</del>	<del>Akhil</del>
28.	Mr. B.Venkat Reddy	PVKKIT	<del>venkat</del>	<del>venkat</del>	<del>venkat</del>	<del>venkat</del>	<del>venkat</del>
29.	Mrs.T.Keerthi Priya	SRIT	<del>Keerthi</del>	<del>Keerthi</del>	<del>Keerthi</del>	<del>Keerthi</del>	<del>Keerthi</del>
30.	Mr.A.V.Manohar Reddy	SRIT	<del>Manohar</del>	<del>Manohar</del>	<del>Manohar</del>	<del>Manohar</del>	<del>Manohar</del>
31.	Mr.C.RAVI TEJA	SRIT	<del>Ravi</del>	<del>Ravi</del>	<del>Ravi</del>	<del>Ravi</del>	<del>Ravi</del>
32.	Mr.M.Sivalingamaiah	SRIT	<del>Siva</del>	<del>Siva</del>	<del>Siva</del>	<del>Siva</del>	<del>Siva</del>
33.	Mr.C.Thippeswamy	SRIT	<del>Swamy</del>	<del>Swamy</del>	<del>Swamy</del>	<del>Swamy</del>	<del>Swamy</del>
34.	Mr. C. Murali Mohan	SVIT	<del>Murali</del>	<del>Murali</del>	<del>Murali</del>	<del>Murali</del>	<del>Murali</del>
35.	Mr. C.H. Ram Mohan	SVIT	<del>R</del>	<del>R</del>	<del>R</del>	<del>R</del>	<del>R</del>
36.	Mr. L .Rangaswamy	SVIT	<del>L-Swamy</del>	<del>L-Swamy</del>	<del>L-Swamy</del>	<del>L-Swamy</del>	<del>L-Swamy</del>
37.	Mr. J.Naveen Kumar	GATE	<del>NK</del>	<del>NK</del>	<del>NK</del>	<del>NK</del>	<del>NK</del>
38.	Mr. S. Tanveer Ahmed	GATE	<del>T.Ahmed</del>	<del>T.Ahmed</del>	<del>T.Ahmed</del>	<del>T.Ahmed</del>	<del>T.Ahmed</del>
39.	Mrs. M. Padmaja	GATE	<del>padma</del>	<del>padma</del>	<del>padma</del>	<del>padma</del>	<del>padma</del>
40.	Ms. P.Thahira Rizwana	GATE	<del>Rizwana</del>	<del>Rizwana</del>	<del>Rizwana</del>	<del>Rizwana</del>	<del>Rizwana</del>
41.	Mr R.K.Thanush	ALTS	<del>thanush</del>	<del>thanush</del>	<del>thanush</del>	<del>thanush</del>	<del>thanush</del>
42.	Mr N. Yerriswamy	ALTS	<del>yerr</del>	<del>yerr</del>	<del>yerr</del>	<del>yerr</del>	<del>yerr</del>
43.	Ms K.Gowthami	ALTS	<del>Gow</del>	<del>Gow</del>	<del>Gow</del>	<del>Gow</del>	<del>Gow</del>

*Sithendra Reddy*  
Convener

*[Signature]*  
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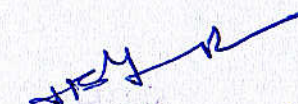
## DEPARTMENT OF MECHANICAL ENGINEERING

Date: 28-11-2019

### One-week Faculty Development Program on "Mechatronics and Control Systems"

#### Event Feedback Analysis

S.No	Particulars	Excellent	Very Good	Good	Fair	Poor	Points	
1	Q1: How was the overall organization of the event?	23	13	6	1	0	8.70	
2	Q2: How relevant was the content discussed by the speaker?	20	18	4	1	0	8.65	
3	Q3: Did the event covers what you were expecting?	25	15	3	0	0	9.02	
4	Q4: How much this session/event useful from the knowledge and information point of view	24	12	7	0	0	8.79	
5	Q5: Overall effectiveness of the lecture/ workshop /event	26	13	4	0	0	9.02	
	<b>Total</b>	118	71	24	2	0	8.84	
	<b>Grand total</b>	215						

  
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## Certificate of Participation

This is to Certify that Mr/Ms. U. Anilka, PvkKIT, Anantapur actively took part in the enlightening event A Five-day Faculty Development Program on Mechatronics and Control Systems Held from November 24, 2019, to November 28, 2019 Organized by the Department of Mechanical Engineering, this FDP served as a platform for participants to delve into the latest developments and insights in the realm of Mechatronics and Control Systems.

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**CONVENOR**

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**PRINCIPAL**

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This is to Certify that Mr/Ms. K. Vishwanath, PvkKIT, Analytque actively took part in the enlightening event A Five-day Faculty Development Program on Mechatronics and Control Systems Held from November 24, 2019, to November 28, 2019 Organized by the Department of Mechanical Engineering, this FDP served as a platform for participants to delve into the latest developments and insights in the realm of Mechatronics and Control Systems.

*Ajitheendru Akshik*

**CONVENOR**

*P.V.K.K.*

**PRINCIPAL**

*P.V.K.K.*

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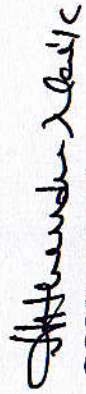
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## Certificate of Participation

This is to Certify that Mr/Ms. C. Ravi Teja, SRIT, Anantapur actively took part in the enlightening event A Five-day Faculty Development Program on Mechatronics and Control Systems Held from November 24, 2019, to November 28, 2019 Organized by the Department of Mechanical Engineering, this FDP served as a platform for participants to delve into the latest developments and insights in the realm of Mechatronics and Control Systems.

  
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This is to Certify that Mr/Ms. K. Gowthami. A.T.S., Anantapur actively took part in the enlightening event A Five-day Faculty Development Program on Mechatronics and Control Systems Held from November 24, 2019, to November 28, 2019 Organized by the Department of Mechanical Engineering, this FDP served as a platform for participants to delve into the latest developments and insights in the realm of Mechatronics and Control Systems.

*S. H. Chandrasekhar*  
**CONVENOR**

*P. V. K. K.*  
**PRINCIPAL**

*P. V. K. K.*

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*Athambeshaik*  
**CONVENOR**

*P.V.K.K.*  
**PRINCIPAL**

*P.V.K.K.*

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