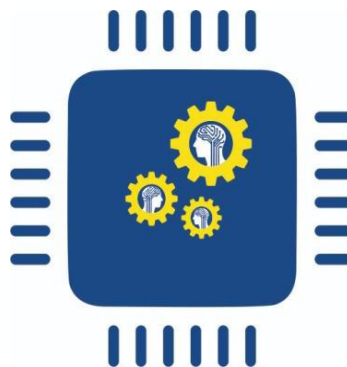




A

Report on
Faculty Development Programme
on
Robotics and Mechatronics in Manufacturing
(RAMM-21)

15/11/2021-19/11/2021



Organized by
Department of Mechanical Engineering
Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur

Submitted by:
Event Coordinators, FDP-RAMM21
Department of Mechanical Engineering

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1. About SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been ranked no.1 engineering institute in Rajasthan by RTU, Kota consecutively for the last four years. SKIT is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier centre of technical education not only in Rajasthan but also in northern India which has been realized through efficient and dedicated faculty members, innovative teaching-learning methods, state of the art infrastructure and core values of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

Vision

To promote higher learning in advanced technology and industrial research to make our country a global player

Mission

To promote quality education, training and research in field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

Quality Policy

We are committed to ‘achievement of quality’ as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves.

Institute would pursue quality in

- All its endeavors like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services.”

2. Approval Letter of the FDP: -

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Mechanical Engineering

Note

Date: 27.08.2021

Subject: Proposals from ME Deptt. for online events for the session:2021-22

Following proposals for conduction of online events (FDP/STTP/Conference/Expert Lecture) are being submitted for your kind approval:

S.No.	Proposed Event Title	Event Type	Faculty Coordinators	Tentative Dates	Duration	Budget
1	Industrial Automation and Smart Manufacturing	STTP	Dr. Manoj Kumar Sain Mr. Praveen Saraswat Mr. Drij Mohan Sharma	22-26 November, 2021	5 Days	30,000/-
2	Smart Use of Renewable energy resources for sustainable futureRenewable Energy	FDP	Dr. Chandan Kumar Mr. Ankit Agarwal Mr. Dinesh Sharma	6-10 December, 2021	5 days	30,000/-
3	Advanced Optimization Techniques and their Applications (AOTA) -2021	FDP	Dr. Prem Singh Sudesh Garg Vinay Marwal	13-18 December, 2021	5 days	30,000/-
4	International Conference on "Mechatronics Applications in Manufacturing and Automation" (ICMAMA-2021-22)	Conference	Dr. Vikash Gautam Dr. Prem Singh Mr. Sudesh Garg	20-22 January, 2022	3 days	25000/-
5	Student workshop on Data Analytics & Research Methodology	Workshop	Dr. Achin Srivastav Dr. Chandan Kumar Mr. Praveen Saraswat Dr. Manoj Kumar Sain	8-12 February, 2022	5 Days	30,000/-
6	International Conference on "Smart Industries and Manufacturing Systems" (SIMS-2022)	Conference	Dr. Manoj Kumar Sain Mr. Praveen Saraswat	23-25 June, 2022	3 Days	25000/-
7	Expert lecture series	Expert Lecture	Dr. Deepak Kumar (Coordinator)	6 lectures	2 Hour each lecture	10000/-

Permitted and
Principal Forwarded to Registrar
for consideration.
P-h
27.08.21

Dr. Dheeraj Joshi
HOD, ME

Approved
9/8/2021

3. Committees for FDP: -

PATRON

Shri Raja Ram Meel, Patron, SKIT Shri Surja Ram Meel, Chairman, SKIT

ADVISORS

Shri Jaipal Meel, Director, SKIT
Prof. S.L. Surana, Director (Academics), SKIT
Mrs. Rachna Meel, Registrar, SKIT
Prof. Ramesh Kumar Pachar, Principal, SKIT
Mrs. Abba Meel, Adviser, SKIT
Prof. Dheeraj Joshi, HOD (ME), SKIT
Prof. Anil Choudhary, HOD (IT), SKIT
Prof. Mukesh Gupta, HOD (CSE), SKIT
Prof. Mukesh Arora, HOD (ECE), SKIT
Prof. S.K. Mathur, HOD (DMS), SKIT
Dr. Dhanraj Chitara, Head (EE), SKIT
Prof. D.K. Sharma, Head (CE), SKIT
Prof. Rohit Mukherjee, Incharge, B.Tech. I Year SKIT
Prof. Amber Shrivastava, Head (Maths), SKIT
Dr. Sharda Soni, Head (Chemistry), SKIT
Prof. Brajraj Sharma, Head (Physics), SKIT
Prof. Neha Purohit, Head (English), SKIT

COORDINATORS

Mr. Vinay S. Marwal, Associate Professor, ME, SKIT
Dr. Prem Singh, Associate Professor, ME, SKIT
Mr. Sudesh Garg, Assistant Professor, ME, SKIT
CO-COORDINATOR
Mr. Chandra Mohan Kumar, Assistant Professor, ME, SKIT
Mr. Suhaib Ansari, Assistant Professor, ME, SKIT

ORGANIZING COMMITTEE (SKIT)

Dr. Vikash Gautam, Associate Professor, ME, SKIT
Dr. Achin Srivastav, Associate Professor, ME, SKIT
Dr. Deepak Kumar, Associate Professor, ME, SKIT
Mr. Vishnu Jangid, Assistant Professor, ME, SKIT
Mr. Pramod Jain, Assistant Professor, ME, SKIT
Mr. Yogesh Sharma, Assistant Professor, ME, SKIT

4. Objective of FDP:-

This FDP is intended to enhance the effectiveness of teaching and research in the manufacturing automation technologies. It is well known that the technologies are continuing to push the boundaries of conventional manufacturing towards automation. The traditional production processes are slowly being replaced by “smart” and “automated” processes. The FDP will provide a suitable exposure to the participants on latest advancements on manufacturing with specific reference to Mechatronics, Automation and Robotics.

5. Content of FDP:-

Basics of Mechatronics

- Sensors, Transducers and Actuator
- Modeling of Mechatronics Systems
- MEMS
- Introduction to Robotics
- Advance manufacturing methods
- Material Printing Technology
- IOT and Industry 4.0
- Smart Technology Enabled Manufacturing- Role of Industrial Automation

6. Invitation to the Experts:-

2/26/22, 10:28 AM

Swami Keshwanand Institute of Technology Mail - Invitation for "FDP-Robotics and Mechatronics in Manufacturing" SKIT Jaipur...



V S Marwal <vinaysingh@skit.ac.in>

Invitation for "FDP-Robotics and Mechatronics in Manufacturing" SKIT Jaipur (15 November, 2021)

5 messages

V S Marwal <vinaysingh@skit.ac.in>

Thu, Nov 11, 2021 at 10:47 AM

To: Vijay Kumar Gupta <vjgupta@iitdm.ac.in>

Bcc: Sudesh Garg <sudesh.garg@skit.ac.in>, prem.singh@skit.ac.in, suhailbansari100@gmail.com>

Dear Sir,

Festival greetings from SKIT Jaipur. We hope that you are fine and doing well.

As per your consent regarding online five-day Faculty Development Programme on "Robotics and Mechatronics in Manufacturing" (RAMM-2021) from 15th November - 19th November 2021, It is our proud privilege to invite you as **Guest of Honour in inaugural session** and **Expert Speaker** to deliver an online talk on 15th November, 2021.

Your engagements in the respective heads are as follows

Guest of Honour : 9:15 A.M

Expert Speaker: 10:00 A.M to 11:30 A.M

We look forward to meeting you virtually and attending your enlightening session.

The programme meeting link will be sent to you shortly (google meet / webex)

FDP program is attached herewith for your reference.

Kindly provide your latest Profile and bank account details for remuneration (format attached).

regards,

Vinay Singh Marwal

Associate professor

Coordinator, RAMM-21

Department of Mechanical Engineering

Contact: 9116618210

Email: vinaysingh@skit.ac.in

7.

22/02/22, 10:29 AM

Swami Keshvanand Institute of Technology Mail - Consent for an expert talk in online FDP on "Robotics & Mechatronics in ...



V S Marwal <vinaysingh@skit.ac.in>

Consent for an expert talk in online FDP on "Robotics & Mechatronics in Manufacturing-2021" at SKIT Jaipur

3 messages

V S Marwal <vinaysingh@skit.ac.in>

Thu, Oct 7, 2021 at 12:55 PM

To: Gunjan Soni <gsoni.mech@mnit.ac.in>

Dr. Gunjan Soni
Deptt. of Mechanical Engineering
MNIT - Jaipur

Subj: Consent for an expert talk in online FDP on "Robotics & Mechatronics in Manufacturing-2021" at SKIT Jaipur

Dear Sir,

Greetings of the day from Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur, Rajasthan. We hope that you are fine and doing well.

We are glad to inform you that the department of Mechanical Engineering, SKIT is organizing an online Five-day Faculty Development Programme on "Robotics and Mechatronics in Manufacturing" (*RAMM-2021*) from 15th November - 19th November, 2021.

The FDP aims in providing a suitable exposure to the participants on latest advancements on manufacturing with specific reference to Mechatronics, Automation and Robotics.

It is our proud privilege to invite you as an esteemed speaker to deliver an online talk on 16th November, 2021 from 10:00 AM to 11:30 AM.

We would feel honoured and highly obliged if you can spare some of your valuable time and give consent for the same along with the "topic of talk".

We look forward to meeting you virtually and attending your enlightening session.

FDP brochure is attached herewith for your reference.

regards,

Vinay Singh Marwal
Associate professor
Coordinator, RAMM-21
Department of Mechanical Engineering










8. Experts Details:-

Name of Expert	Designation	Institute	Email ID
Dr. Vijay Kumar Gupta	Professor	IIIT,Jabalpur	vkgupta@iiitdmj.ac.in
Dr. Ekta Singla	Asso. Professor	IIT,Ropar	ekta@iitrpr.ac.in
Dr. Chandrakant Nirala	Ass. Professor	IIT,Ropar	nirala@iitrpr.ac.in
Dr. Rajesh Kumar	Professor	MNIT,Jaipur	rkumar.ee@mnit.ac.in
Dr. Gunjan Soni	Ass. Professor	MNIT,Jaipur	gsoni.mech@mnit.ac.in
Dr. Omji Shukla	Ass. Professor	NIT,Patna	omjishukla.me@nitp.ac.in
Dr. Md. Suhaib	Professor	JMI,Dehli	msuhaib@jmi.ac.in
Dr. Shahbaz Ahmed	Professor	Manipal University,Jaipur	shahbazahmed.siddiqui@jaipur.manipal.edu

9. Honorarium paid to Expert:-

VIJAY RAMM FDP 21	N348211752406763	14/12/2021	3500
EKTA RAMM FDP 21	N348211752406764	14/12/2021	3500
GUNJAN RAMM FDP 21	N348211752406765	14/12/2021	3000
OMJI RMM FDP 21	N348211752406767	14/12/2021	3000
CHANDRAKA RMM FDP21	N348211752406768	14/12/2021	3000
EKTA RAMM FDP 21	N348211752406778	14/12/2021	3500
RAJESH RMM FDP 21	N348211752406771	14/12/2021	3500
SHAHBAZ RMM FDP 21	N348211752406772	14/12/2021	3500
SUHAIB RMM FDP 21	N348211752406775	14/12/2021	3500

10. FDP Schedule:-

Date	I-Session (10-11.30)		II-Session (12 -1.30)	
15-11-2021	Dr. VK Gupta (IIIT-Jabalpur) Overview of Mechatronics		Dr. Ekta Singla (IIT-Ropar) Industrial Systems: Journey of 5 Decades Robotics	
16-11-2021	Dr. Gunjan Soni (MNIT-Jaipur) Machine learning application in Manufacturing		Dr. Om Ji Shukla (NIT-Patna) AI application in Manufacturing	
17-11-2021	Dr. Ekta Singla(IIT-Ropar) Configurable robots for Industry 4.0		Dr. C.Nirala (IIT-Ropar) Advanced Unconventional Methods in Manufacturing	
18-11-2021	Dr. Rajesh (MNIT-Jaipur) Robotics in Manufacturing		Dr. Shahbaz Ahmed Siddiqui (Manipal -Jaipur) Automation in Agriculture Machining	
19-11-2021	Dr. Md. Suhaib (JMA -Central University) Robotics in Manufacturing			

11. FDP Brochure:-

<p>PATRON Shri Raja Ram Meel, Patron, SKIT Shri Surja Ram Meel, Chairman, SKIT</p> <p>ADVISORS Shri Jaipal Meel, Director, SKIT Prof. S.L. Surana, Director (Academics), SKIT Mrs. Rachna Meel, Registrar, SKIT Prof. Ramesh Kumar Pachar, Principal, SKIT Mrs. Abha Meel, Adviser, SKIT Prof. Dheeraj Joshi, HOD (ME), SKIT Prof. Anil Choudhary, HOD (IT), SKIT Prof. Mukesh Gupta, HOD (CSE), SKIT Prof. Mukesh Arora, HOD (ECE), SKIT Prof. S.K. Mathur, HOD (DMS), SKIT Dr. Dhanraj Chitara, Head (EE), SKIT Prof. D.K. Sharma, Head (CE), SKIT Prof. Rohit Mukherjee, Incharge, B.Tech. 1 Year SKIT Prof. Amber Shrivastava, Head (Maths), SKIT Dr. Sharda Soni, Head (Chemistry), SKIT Prof. Brajraj Sharma, Head (Physics), SKIT Prof. Neha Purohit, Head (English), SKIT</p> <p>COORDINATORS Mr. Vinay S. Marwal, Associate Professor, ME, SKIT Dr. Prem Singh, Associate Professor, ME, SKIT Mr. Sudesh Garg, Assistant Professor, ME, SKIT</p> <p>CO-COORDINATOR Mr. Chandra Mohan Kumar, Assistant Professor, ME, SKIT Mr. Suhaib Ansari, Assistant Professor, ME, SKIT</p> <p>ORGANIZING COMMITTEE (SKIT) Dr. Vikash Gautam, Associate Professor, ME, SKIT Dr. Achin Srivastav, Associate Professor, ME, SKIT Dr. Deepak Kumar, Associate Professor, ME, SKIT Mr. Vishnu Jangid, Assistant Professor, ME, SKIT Mr. Pramod Jain, Assistant Professor, ME, SKIT Mr. Yogesh Sharma, Assistant Professor, ME, SKIT</p>	<p>REGISTRATION FORM</p> <p>To join this FDP, you are requested to register your name by clicking the following registration link: https://forms.gle/xcdvUncyS1JWNu4G8</p> <p>Note:</p> <ul style="list-style-type: none"> ✓ The faculty development programme will be conducted online through Cisco WebEx. ✓ The registration for the FDP is on first come first serve basis. ✓ After the confirmation of registration, participants need to join the Whats-App group with this link: https://chat.whatsapp.com/JWA00B1wtyR9hd6GdtqrqS and Google classroom (classroom code will be shared after registration) to receive FDP related information. ✓ E-Certificate will be provided to the participants who will attend 80% of the sessions and submit feedback of FDP. ✓ For any queries regarding FDP, please contact: fdpramm@skit.ac.in <p>Dr. Prem Singh (Coordinator) Mobile: 9828121978 Email: prem.singh@skit.ac.in</p> <p>Mr. Sudesh Garg (Coordinator) Mobile: 9024693951 Email: sudesh.garg@skit.ac.in</p>	<p>Faculty Development Programme On Robotics and Mechatronics in Manufacturing (RAMM-2021) November 15-19, 2021</p>  <p>Organized by DEPARTMENT OF MECHANICAL ENGINEERING</p>  <p>Swami Keshvanand Institute of Technology, Management & Gramothan Jagatpura, Jaipur 302017 web: www.skit.ac.in</p>
<p>About SKIT Jaipur</p> <p>Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been ranked no.1 engineering institute in Rajasthan by RTU, Kota consecutively for the last four years. SKIT is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier centre of technical education not only in Rajasthan but also in northern India which has been realized thought efficient and dedicated faculty members, innovative teaching-learning methods, state of the art infrastructure and core values of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).</p> <p>Department of Mechanical Engineering</p> <p>The department started academic activities in the year 2003-04 with the admission of its first batch of under-graduates. The Department offers B.Tech. in Mechanical Engineering and M.Tech. in Production Engineering and Renewable Energy Technology courses. In addition, it is also a recognized Research Center of RTU Kota and offers Ph.D. program. The department has modern laboratories developed and designed from the perspective of the latest requirements of academia and industry. Consistent pursuit of excellence by the department is clearly reflected in the B.Tech. Program has been accredited by National Board of Accreditation (NBA) (India). The department has developed its facilities in such a way that students can practice self-study and under take other curricular activities. Special attention is paid for developing positive attitudes, leadership, group working and safety consciousness in the students.</p>	<p>OBJECTIVES OF THE FDP</p> <p>This FDP is intended to enhance the effectiveness of teaching and research in the manufacturing automation technologies. It is well known that the technologies are continuing to push the boundaries of conventional manufacturing towards automation. The traditional production processes are slowly being replaced by "smart" and "automated" processes. The FDP will provide a suitable exposure to the participants on latest advancements on manufacturing with specific reference to Mechatronics, Automation and Robotics.</p> <p>CONTENTS OF THE FDP</p> <ul style="list-style-type: none"> ➤ Basics of Mechatronics ➤ Sensors, Transducers and Actuator ➤ Modeling of Mechatronics Systems ➤ MEMS ➤ Introduction to Robotics ➤ Advance manufacturing methods ➤ Material Printing Technology ➤ IOT and Industry 4.0 ➤ Smart Technology Enabled Manufacturing- Role of Industrial Automation 	<p>RESOURCE PERSONS</p> <p>The various sessions of FDP will be taken by the eminent Faculty from IITs, NITs, IIITs and other reputed institutions.</p> <p>TARGETED AUDIENCE</p> <p>This FDP has been targeted for faculty members, researchers and industry personnel across India to augment them with state-of-the art skills and knowledge in the area of advanced manufacturing. The participants will be provided with comprehensive theoretical knowledge as well as necessary hands-on experience in the related area that will certainly help in their academics, research and professional accomplishments.</p> <p>REGISTRATION FEE <i>There is no registration fee.</i></p> <p>IMPORTANT DATES Last Date for Online Registration: 13.11.2021 FDP Date: 15.11.2021-19.11.2021</p> <p><i>* This is a Five Days programme scheduled from 15th to 19th November, 2021 between 10:00 am to 3:00 pm. The participants are required to maintain 80 % attendance to get participation certificate.</i></p>

12. Inauguration Invitation: -

It is our immense pleasure to inform you that Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur is going to organize a one week Faculty Development Programme on

“Robotics and Mechatronics in Manufacturing”(RAMM-21)
November 15-19, 2021

The inaugural ceremony will be held on 15th November, 2021 from 9:15am onwards.

Chief Guest of the Ceremony



Dr. Vijay Kumar Gupta
Professor, IIITDM Jabalpur

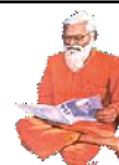
15th November, 2021 from 9:15am onwards

You are cordially invited to grace the occasion. Inaugural ceremony will be followed by expert lecture Sessions.

13. Minutes to Minutes Program of Inauguration: -



SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,
MANAGEMENT & GRAMOTHAN, JAIPUR



Faculty Development Program
ON

**“Robotics and Mechatronics in Manufacturing”
(RAMM -2021)**

15 -19 November, 2021

Organized by

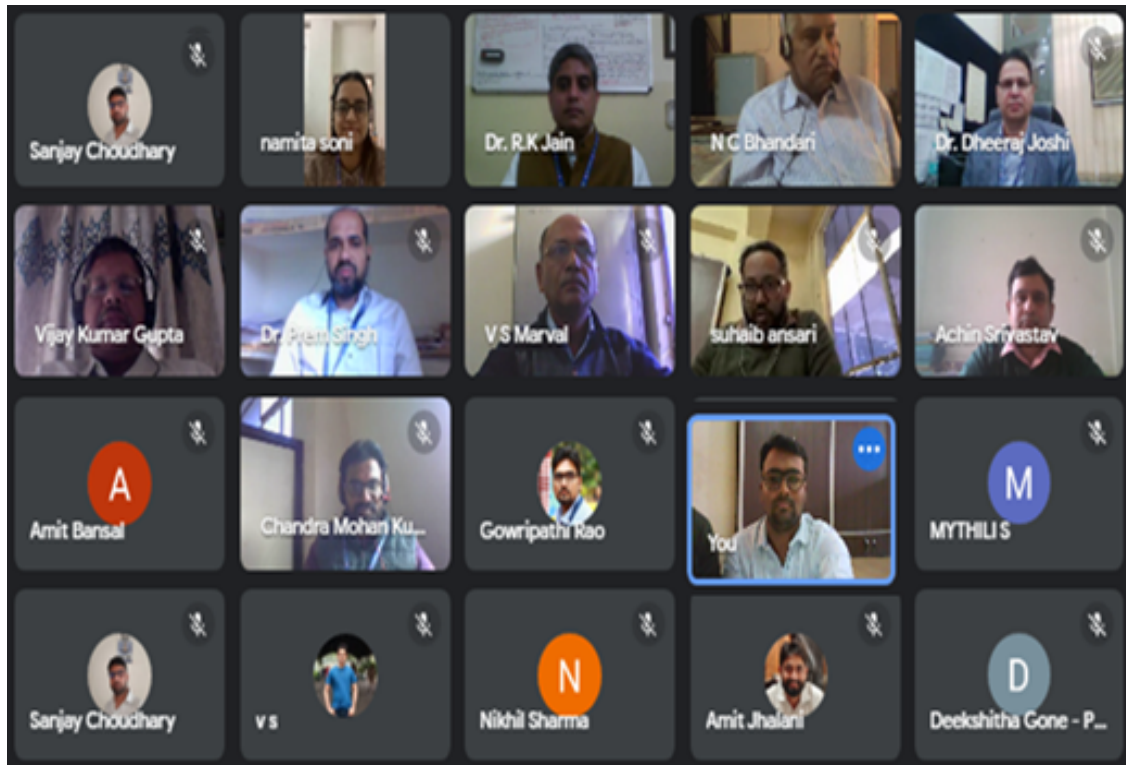
Department of Mechanical Engineering



Inaugural Ceremony
(15 November, 9.15 am onwards)
(Minute to Minute Programme)

Event Description	Duration
Introduction to Event Ms. Namita Soni , SKIT Jaipur (Anchor)	3 Minutes
Welcome Note Dr. R.K. Jain , Dean, SKIT Jaipur	3 Minutes
About the Objectives of FDP Mr. Vinay Singh Marwal , Event Coordinator	5 Minutes
About the Sessions of FDP Dr. Prem Singh , Event Coordinator	5 Minutes
Address by Guest of Honor Prof. V.K. Gupta, IIIT Jabalpur	5 Minutes
Vote of Thanks Dr. Dheeraj Joshi, HOD, ME Dept. SKIT Jaipur	5 Minutes

14. Glimpses of the Inauguration Ceremony: -



15. News of the Inauguration Ceremony: -

पांच दिवसीय फैकेल्टी डेवलपमेंट प्रोग्राम ऑन रोबोटिक्स एंड मेकाट्रॉनिक्स इन मैनुफैक्चरिंग का शुभारंभ

P3 Police Public Politics

जयपुर ! स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी) जगतपुरा, जयपुर में सोमवार को मैकेनिकल विभाग की ओर से पांच दिवसीय फैकेल्टी डेवलपमेंट प्रोग्राम ऑन "रोबोटिक्स एंड मेकाट्रॉनिक्स इन मैनुफैक्चरिंग" का शुभारंभ किया गया। कार्यक्रम के मुख्य अतिथि प्रोफेसर विजय कुमार गुप्ता, विभागाध्यक्ष, मैकेनिकल विभाग, दृढ़दृष्टि जयपुर रहे। प्रोफेसर गुप्ता ने

मैनुफैक्चरिंग में उत्पादों, प्रक्रियाओं और क्षमता के साथ विकसित करने के लिए



प्रणालियों को अधिक लचीलेपन, रीडिजाइन में आसानी और रिप्रोसेसिंग की क्षमता के साथ विकसित करने के लिए

रोबोटिक्स एंड मेकाट्रॉनिक्स के अनुप्रयोग के बारे में बताया। इस अवसर पर प्रोफेसर आर. के. जैन (डीन, एसकेआईटी) ने मुख्य अतिथि और अन्य प्रतिभागियों का स्वागत किया। कार्यक्रम के कन्वीनर विनय सिंह मारवाल, सुदेश गर्ग एवं डॉ. प्रेम सिंह ने बताया कि इस प्रोग्राम में देश के विभिन्न राज्यों के 100 से ज्यादा शिक्षकों ने भाग लिया है और साथ ही आने वाले वक्ताओं तथा होने वाले विभिन्न सत्रों का संक्षिप्त विवरण प्रस्तुत किया। प्रोग्राम के अंत में डॉ. धीरज जोशी विभागाध्यक्ष (मैकेनिकल विभाग, एसकेआईटी) ने मुख्य अतिथि और अन्य प्रतिभागियों का धन्यवाद ज्ञापित किया। कार्यक्रम का संचालन नमिता सोनी, चंद्रमोहन कुमार एवं शोहेब अंसारी ने किया।

पांच दिवसीय फैकेल्टी डेवलपमेंट प्रोग्राम ऑन 'रोबोटिक्स एंड मेकाट्रॉनिक्स इन मैनुफैक्चरिंग' का शुभारंभ






महानगर टाइम्स/जयपुर

स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी) जगतपुरा, जयपुर में सोमवार को मैकेनिकल विभाग की ओर से पांच दिवसीय फैकेल्टी डेवलपमेंट प्रोग्राम ऑन "रोबोटिक्स एंड मेकाट्रॉनिक्स इन मैनुफैक्चरिंग" का शुभारंभ किया गया। कार्यक्रम के मुख्य अतिथि प्रोफेसर विजय कुमार गुप्ता, विभागाध्यक्ष, मैकेनिकल विभाग, आईआईआईटीडीएम, जबलपुर रहे। प्रोफेसर गुप्ता ने मैनुफैक्चरिंग में उत्पादों, प्रक्रियाओं और प्रणालियों को अधिक लचीलेपन, रीडिजाइन में आसानी और रिप्रोसेसिंग की क्षमता के साथ विकसित करने के लिए रोबोटिक्स एंड मेकाट्रॉनिक्स

के अनुप्रयोग के बारे में बताया। इस अवसर पर प्रोफेसर आर. के. जैन (डीन, एसकेआईटी) ने मुख्य अतिथि और अन्य प्रतिभागियों का स्वागत किया। कार्यक्रम के कन्वीनर विनय सिंह मारवाल, सुदेश गर्ग एवं डॉ. प्रेम सिंह ने बताया कि इस प्रोग्राम में देश के विभिन्न राज्यों के 100 से ज्यादा शिक्षकों ने भाग लिया है और साथ ही आने वाले वक्ताओं तथा होने वाले विभिन्न सत्रों का संक्षिप्त विवरण प्रस्तुत किया।

प्रोग्राम के अंत में डॉ. धीरज जोशी विभागाध्यक्ष (मैकेनिकल विभाग, एसकेआईटी) ने मुख्य अतिथि और अन्य प्रतिभागियों का धन्यवाद ज्ञापित किया। कार्यक्रम का संचालन नमिता सोनी, चंद्रमोहन कुमार एवं शोहेब अंसारी ने किया।

16. Day to Day Execution of FDP: -

Date	I-Session (10-11.30)		II-Session (12 -1.30)	
15-11-2021	Dr. VK Gupta (IIIT-Jabalpur) Overview of Mechatronics		Dr. Ekta Singla (IIT-Ropar) Industrial Systems: Journey of 5 Decades Robotics	
16-11-2021	Dr. Gunjan Soni (MNIT-Jaipur) Machine learning application in Manufacturing		Dr. Om Ji Shukla (NIT-Patna) AI application in Manufacturing	
17-11-2021	Dr. Ekta Singla (IIT-Ropar) Configurable robots for Industry 4.0		Dr. C. Nirala (IIT-Ropar) Advanced Unconventional Methods in Manufacturing	
18-11-2021	Dr. Rajesh (MNIT-Jaipur) Robotics in Manufacturing		Dr. Shahbaz Ahmed Siddiqui (Manipal -Jaipur) Automation in Agriculture Machining	
19-11-2021	Dr. Md. Suhaib (JMA -Central University) Robotics in Manufacturing			

17. Glimpses of FDP: -

REC Ekta Singla is presenting

ADVANCEMENTS IN INDUSTRY ROBOTICS

Cooperative Robots (COBOTS)

Degrees of freedom	6
Controlled Axes	6
Payload	35 kg
Mass	990 kg
Reach	1813 mm

FANUC - CR 35IA

- Highly sensitive **force torque sensor** that monitors every movement of the robot and can easily detect any abnormal impact.
- A **single tap of a finger** can stop the robot, including while it's carrying a large payload.
- Its built-in anti-trap protection and soft rubber skin allows humans to **work safe**.

People

All muted Add people Host controls

- Dr. Prem Singh
- Ekta Singla Meeting host
- Ekta Singla Presentation
- Gajanan M Naik
- HARIKETAN PATEL
- Harmesh Lal
- HARSHA ROWDOOR
- Ialif kumar sharma
- Madhukar Kumar Raichand
- Monika Khurana

Chandra Mohan... Pramod Jain 29 others You

REC Om Ji Shukla is presenting

Megatrend in AI

People

All muted Add people Host controls

- Dhiraj Bajpai
- Dr. Piyush Vishwakarma
- Dr. Prem Singh Meeting host
- Dr. Surjit Kumar Gandhi
- Gajanan M Naik
- Ialif kumar sharma
- Madhukar Kumar Raichand
- Om Ji Shukla Meeting host
- Om Ji Shukla Presentation
- Parag Bezbaruah

Om Ji Shukla V S Marvel POUSIA S Dr. Surjit Kumar ... 23 others You

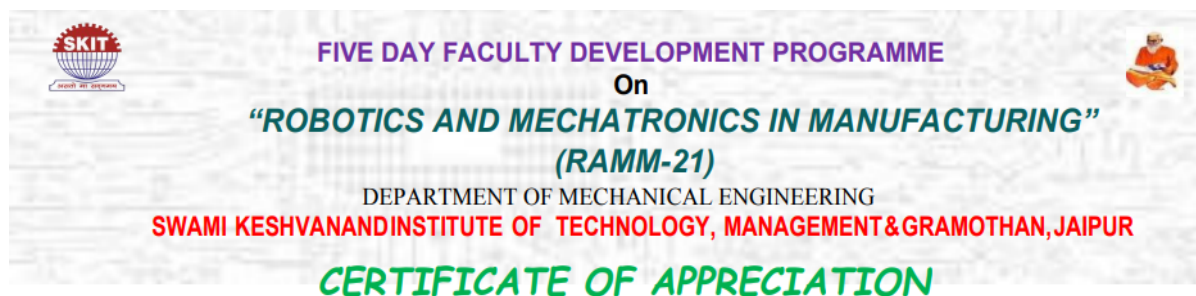
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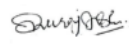
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19. Sample Copy of the Participants Certificates: -

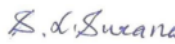


This certificate is presented to..... for sharing his valuable knowledge as guest speaker during the Five Day Faculty Development Programme on "ROBOTICS and MECHATRONICS in MANUFACTURING" held from 15/11/2021 to 19/11/2021 at "Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan".


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Sample copy of Participants Certificate (List enclosed on next page)

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