

Madhav Institute of Technology & Science, Gwalior

Electrical Engineering Department



NEWSLETTER

Vol. 6, No. 3

July-Sept 2021



Department of Electrical Engineering is one of the oldest departments established in 1957 at MITS campus. The department is dedicated to the teaching and research activities in the areas of Electrical, Electronics, Instrumentation & Control Engineering. The department educates the students to take up challenging jobs in a wide range of industries and engage themselves in research and development activities for the good of society. The syllabi of the courses are continuously updated and the laboratories modernized to reflect the rapid changes in technology. It also offers high quality research in the (ME and Ph.D.) Programs. Courses offered by the department cater to learning needs from basics to the advanced level. Department offers variety of discipline electives and covers most of the modern technologies. It has state of the art laboratories to provide hands on experiences and support research activities.

Vision

“To prepare professionally competent and ethical Electrical Engineers for global and social technological demands”

Mission

- Impart state-of-the-art education to produce globally competent electrical engineers.
- Engage in cutting-edge research & sustainable technologies for overall development of students and society in an ethical manner.
- Identify latest areas of specialization based on an informed perception of regional, national and global needs.
- Undertake collaborative projects which offer opportunities for long term interaction with academia & industry.

Programme Educational Objectives (PEOs)

PEO-I - Graduates of the programme will have successful technical and professional careers.

PEO-II - Graduates of the programme will continue to learn and adapt in a world of constantly evolving technology.

PEO-III - Graduates of the programme will be able to apply, analyze, design and create products and solutions for real life Electrical Engineering problems.

PEO-IV - Graduates of the programme will be able to manage projects catering to current societal and industrial needs in an ethical manner working as members/leaders of multidisciplinary teams.

FACULTY

Talk delivered outside the Institute

Name of Faculty	Venue/Organized by	Duration	Activity/Topic	Role
Dr. Manjaree Pandit	School of Information Technology(SOIT), RGPV, Bhopal Sponsored by AICTE-Training & Learning (ATAL) Academy	12 th July 2021	"An Introduction to Machine Learning and Data Analytics"	Expert Talk
Dr. A.K.Wadhwani	ITM, University	15 th Sept 2021	"Determination of span of Covid-19, Duration of Maximum Severity and change of Mutation using Astrological Aspects and Fuzzy Rules	Expert Talk
	SATI, Vidisha	23 rd Sept 2021	"Determination of span of Covid-19, Duration of Maximum Severity and change of Mutation using Astrological Aspects and Fuzzy Rules	Expert Talk
	Millennium Institute of Technology & Science, Bhopal	24 th Sept 2021	"Determination of span of Covid-19, Duration of Maximum Severity and change of Mutation using Astrological Aspects and Fuzzy Rules	Expert Talk
Prof. Praveen Bansal	Dayalbag Engineering College, Agra (U.P.)	7 th Aug 2021	Virtual Labs	Expert Talk
	Jiwaji Wishwavidayala, Gwalior(M.P.)	14 th Aug 2021	Virtual Labs	Expert Talk

FACULTY

TRAINING PROGRAM/ FDP ATTENDED

S.NO	FACULTY NAME	TITLE	PLACE	DURATION
1	Dr. A.K. Wadhwani	AICTE Training And Learning (ATAL) Academy	NIT Calicut (online)	02/08/2021 to 06/08/2021

		Online Elementary FDP on "AI applications in Biomedical Engineering"		one week
2	Dr. Sulochana Wadhwani	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "AI applications in Biomedical Engineering"	NIT Calicut (online)	02/08/2021 to 06/08/2021 one week
3	Prof. Ashis Patra	online training program on," advanced optimization techniques	MANIT Jaipur(online)	6-17 September 2021 Two weeks
		FDP on , recent trends in artificial intelligence and machine learning	ASET, Kerala (online)	28-30 July 2021 3 Days
		FDP, power system design simulation	Dellsoft Technologies, Delhi	14-15, september 2021 3 Days
		online training on Advanced automation	NPTI Durgapur	26-27, August 2021 2 Days
4	Dr. Shishir Dixit	online Short Term Course on "Power System Restructuring and Renewable Energy Integration (PSRREI) 3.0"	IET & Bharati Vidyaprrth's College of Engineering,	September 6-10 , 2021 one week
		AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Recent Trends in Green Technologies for sustainable Development"	Bikaner University College of Engineering & Technology, Bikaner.	September 13-17, 2021 One week
		AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Signal Processing for 5G - Algorithms and Implementation".	Indian Institute of Technology, Goa	August 09 -13 2021 One week
		National Workshop on Virtual Lab, 2021	ABV-IIITM Gwalior, MITS Gwalior and Shiksha Sanskriti Nyas, Madhya Bharat Prant	Aug 2021
5	Dr. Himmat Singh	online Short Term Course on "Power System Restructuring and Renewable Energy Integration (PSRREI) 3.0"	IET & Bharati Vidyaprrth's College of Engineering,	September 6-10 , 2021 one week

		AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Recent Trends in Green Technologies for sustainable Development"	Bikaner University College of Engineering & Technology, Bikaner.	September 13-17, 2021 One week
		AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Signal Processing for 5G - Algorithms and Implementation".	Indian Institute of Technology, Goa	August 09 -13 2021 One week
		National Workshop on Virtual Lab, 2021	ABV-IIITM Gwalior, MITS Gwalior and Shiksha Sanskriti Nyas, Madhya Bharat Prant	Aug 2021
6	Prof. Vishal Chaudhary	"How to Conduct the Student Induction (SIP) Program"	All India Council for Technical Education(AICTE)	20 Sept 2021 one day
7	Prof.Praveen Bansal	online training program on Internet of Things using Arduino	NIELIT, Ministry of Electronics & Information Technology, Government of India)	14.06.21 to 24.07.2021 six week

EXPERT TALK ORGANIZED at INSTITUTE LEVEL

S.No.	Name of Expert	Designation/Affiliation of the Expert	Title/Area of Lecture	Date
1.	Er G K Pharlai ji	Retd. IES	Modern hydro power Generation	18.08.2021

ACTIVITIES ORGANIZED (WORKSHOP/CONFERENCE/FDP/STC) at INSTITUTE LEVEL

S.No.	Name of faculty	Name of Activity	Title	Duration
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1.	Prof. Praveen Bansal	Training	Virtual Hands on training on Tinkercad with IoT control	25 -27 June 2021 Three Days
		Workshop	Create, Collaborate & Work Dynamically Online in Google Apps	19 – 20 June 2021 Two Days
2.	Prof. Vishal Chaudhary & Prof. Bhavna Rathore	Workshop	Workshop on computation of Citations & H-Index in (i) Web of Science (ii) Scopus	09.09.2021 One Day
3	Dr. Vikram & Prof. Kuldeep Kr. swarnakar	Workshop	Workshop on "Student-centric, innovative, and effective teaching learning practices to enhance learning outcomes"	06, 10, 13 & 17 September 2021

BOOK CHAPTERS/BOOKS PUBLISHED

S.No.	Name of Authors	Title	Publication in:	DOI/ISBN
1.	Harimohan Dubey, Manjaree Pandit, Laxmi Srivastava, Bijaya Ketan Panigrahi	“Artificial Intelligence and Sustainable Computing”	Proceedings of ICSISCET 2020	https://doi.org/10.1007/978-981-16-1220-6 (e-book) ISBN 978-981-16-1220-6

Undergoing Project within Department

S.No.	Project Title	Grant	Funding Agency	Other Details
1.	ISTE Students' Chapter MITS	Rupees One lakh	AICTE-SPICES (Scheme for promoting Interests, Creativity and Ethics among Students) for 2021-22	F. No. 10-4/AICTE/IDC/SPICES/2020-21 dated 16.06.2021

Patent File

S.No.	Patent Title	Application No.	Publication Date
1.	Intellectual Property, India in the Innovation on System and	202121026132	16-07-2021

	Method to Transport Products Over a Network		
2.	Intellectual Property, India in the Innovation on Method and System for Automatically Monitoring the Growth of Plants	202121026088	16-07-2021
3.	Intellectual Property, India in the Innovation on A Centralized Crime Reporting and Management System	202121026244	16-07-2021

Publications

S.No	Authors	Paper Title	Journal/Conference	DOI
1.	Singh P., Pandit M., Srivastava L., Paliwal N.	Techno-Economic Assessment of a Hybrid Renewable Energy System Using Dynamic Search Space	Artificial Intelligence and Sustainable Computing. Algorithms for Intelligent Systems. Springer, 2022	https://doi.org/10.1007/978-981-16-1220-6_30
2	Paliwal N., Srivastava L., Pandit M., Singh P	Jaya Algorithm-Based Load Frequency Control in Nuclear Power Plant Incorporating Energy Storage Unit.	Artificial Intelligence and Sustainable Computing. Algorithms for Intelligent Systems. Springer, 2022	https://doi.org/10.1007/978-981-16-1220-6_21
3	Saket Gupta, Narendra Kumar & Laxmi Srivastava	Solution of optimal power flow problem using sine-cosine mutation based modified Jaya algorithm: a case study	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2021	10.1080/15567036.2021.1957043
4	B. Rathore, S. Chakrabarti, L. Srivastava	A Self-Regulated Virtual Impedance control of VSG in a microgrid	Electric Power Systems Research, Volume 197, 2021	ISSN 0378-7796, https://doi.org/10.1016/j.epsr.2021.107289 .
5	Ahirwar, H.S., Srivastava, L	Minimization of Real Power Losses of Transmission Lines and Improvement of Voltage Stability in Power System using	J. Inst. Eng. India Ser. B (2021)	https://doi.org/10.1007/s40031-021-00636-z

		Recurring MODE Algorithm		
6	Roy K., Srivastava L., Dixit S	MVO-Based Approach for Optimal DG and Capacitor Allocation	Artificial Intelligence and Sustainable Computing. Algorithms for Intelligent Systems. Springer, 2022	https://doi.org/10.1007/978-981-16-1220-6_7
7	Shukla S., Pandit M.	An Optimum Multi-objective Dynamic Scheduling Strategy for a Hybrid Microgrid System Using Fuzzy Rank-Based Modified Differential Evolution Algorithm	Artificial Intelligence and Sustainable Computing. Algorithms for Intelligent Systems. Springer, July, 2021	https://doi.org/10.1007/978-981-16-1220-6_16
8	Chaudhary V., Dubey H.M., Pandit M.	Combined Heat–Power Economic Emission Dispatch for a Microgrid Using Coyote Optimization	Artificial Intelligence and Sustainable Computing. Algorithms for Intelligent Systems. Springer, 2022	https://doi.org/10.1007/978-981-16-1220-6_28
9	Tiwari V., Dubey H.M., Pandit M	Optimal Sizing and Allocation of DG in Distribution System Using TLBO	Artificial Intelligence and Sustainable Computing. Algorithms for Intelligent Systems. Springer, 2022	https://doi.org/10.1007/978-981-16-1220-6_35
10	Salil Madhav Dubey, Hari Mohan Dubey, Manjaree Pandit	Incentive-based demand response in grid-connected microgrid using quasi-opposed grey wolf optimizer	International Journal of Engineering, Science and Technology, Vol. 13, issue 02, pp. 1-14, July 2021	10.4314/ijest.v13i2.1
11	Rinisha Bagaria, Sulochana Wadhwani, Arun Kumar Wadhwani	Bone fractures detection using support vector machine and error back propagation neural network	Optik, Volume 247, 2021, 168021	ISSN 0030-4026, https://doi.org/10.1016/j.ijleo.2021.168021 .
12	Arun Kumar Wadhwani	Development of expert system to determine span of COVID-19 & change of mutation based on fuzzy concepts	International Journal of Jyotish Research: 2021; 6(1): pp 94-103	ISSN: 2456-4427
13	Vinay kumar Tatikayala, Shishir	Takagi-Sugeno Fuzzy based Controllers for Grid Connected PV-Wind-Battery Hybrid	6th International Conference on Recent Trends In Electronics, Information & Communication Technology	

	Dixit	System	on 27 August 2021.	
14	Bansal, P, Singh, A.	Nonlinear adaptive normalized least mean absolute third algorithm for the control of five-level distribution static compensator	Int J Circ Theor Appl. 2021; 49(9): 2840– 2864	https://doi.org/10.1002/cta.3045
15	Praveen Bansal & Alka Singh	Multilevel Inverter Based Power Quality Enhancement Using Improved Immune Control Algorithm	International Journal of Electronics, 2021	DOI: 10.1080/00207217.2020.1870754
16	Saini V., Dewan L.	Sparse Solutions in the Identification of Output Error Models	Artificial Intelligence and Sustainable Computing. Algorithms for Intelligent Systems. Springer, Singapore, 2022	https://doi.org/10.1007/978-981-16-1220-6_29
17	Saurabh Kumar Rajput, Dharmendra Kumar Dheer	Mathematical modelling and experimental validation for impact of high solar cell temperature on transformer loading and life	Renewable Energy Focus, Volume 39, 2021, Pages 27-36	ISSN 1755-0084, https://doi.org/10.1016/j.ref.2021.07.001

Student Club Activities Organized

S.No.	Club	Activity	Date
1.	Holistic Health Club MITS	"Mind your Mind" webinar	18-07-2021
2.	Holistic Health Club MITS	An awareness campaign on COVID 19 under the program of government of India "COVISANDESH"	02-09-2021 – 08-09-2021
3.	Holistic Health Club MITS	PCOS awareness campaign	16-09-2021 – 22-09-2021

Student Chapter Activities Organized

S.No.	Student Chapter	Activity	Date
1.	ISTE STUDENTS' CHAPTER MITS	DEVOPS Workshop	18/09/2021- 19/09/2021

2.	ISTE STUDENTS' CHAPTER MITS	Blockchain & Cryptocurrencies Workshop	18/09/2021- 19/09/2021
3.	ISTE STUDENTS' CHAPTER MITS	PIRATES OF THE WEBIAN	18/09/2021- 19/09/2021

Glimpse



INDIAN SOCIETY FOR TECHNICAL EDUCATION
STUDENTS' CHAPTER MITS GWALIOR



Extremely proud to announce that
ISTE STUDENTS' CHAPTER MITS
received **₹1,00,000 SPICES**
GRANT 2021-22 from **AICTE**
under the Scheme for Promoting Interests,
Creativity, and Ethics among Students [SPICES].

Greatest achievement of
ISTE STUDENTS' CHAPTER MITS
Gwalior, Madhya Pradesh

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2K21

DEVOPS WORKSHOP

In Association with  MentorrrBuddy

ON 18-19 SEPTEMBER, 2021



- * FREE REGISTRATION FOR ALL.
- * NATIONAL LEVEL CERTIFICATES WILL BE PROVIDED.
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In Collaboration With **IGNITE IT SERVICES**

ON 18-19 SEPTEMBER, 2021

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FROM 3:30PM ONWARDS

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* 2ND PRIZE- ₹ 1500

* 3RD PRIZE- ₹ 500

* FREE REGISTRATION.

* PARTICIPATION CERTIFICATE.

* LIMITED SEATS.

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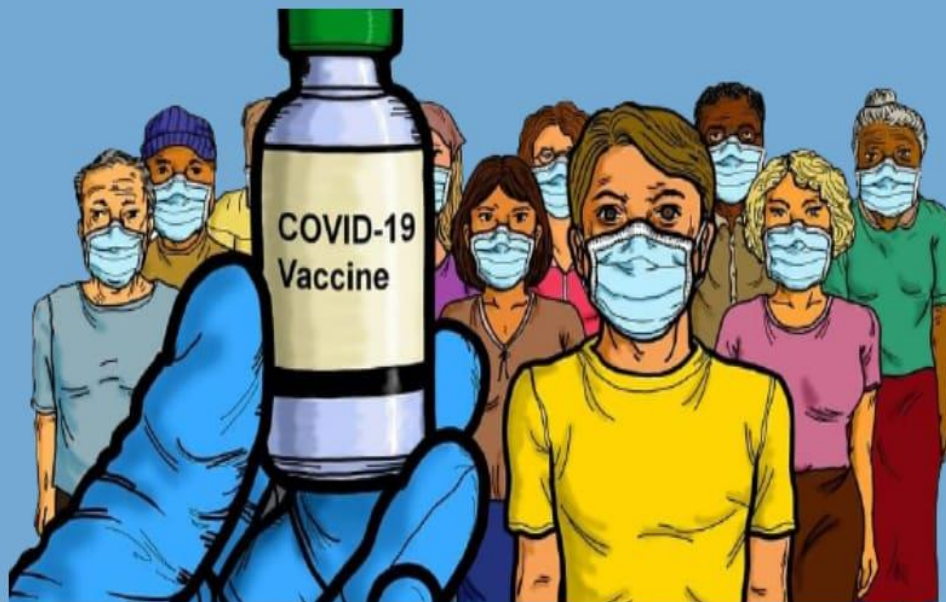


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Make Our College **FULLY VACCINATED !**



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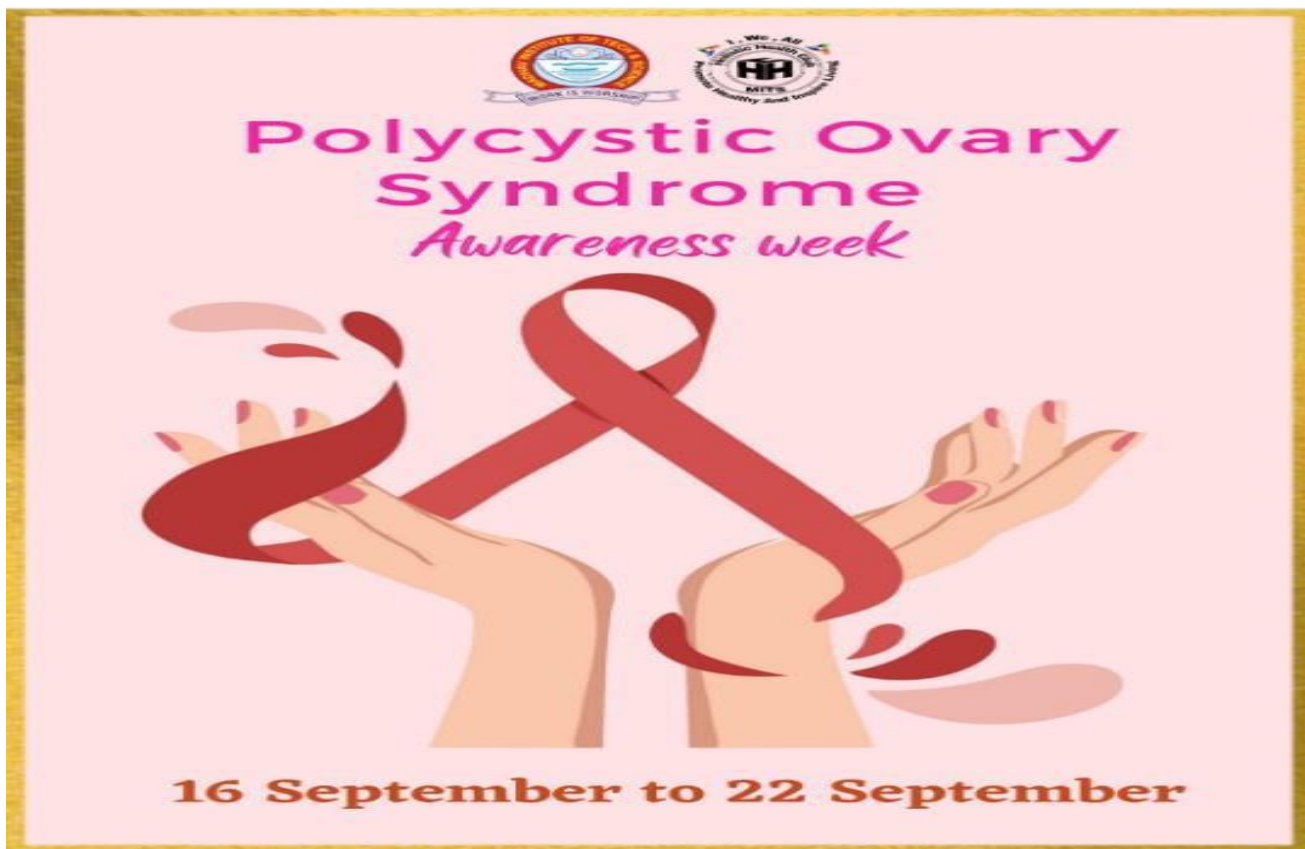
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PLATFORM-GMEET

Contact: PRINCY SAXENA-9425603962
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SUNDAY पत्रिका PLUS

ग्वालियर, रविवार, 19.09.2021

PATRIKA.COM/ENT

एमआइटीएस में 'ब्लॉकचेन और क्रिप्टोकॉरेसी' विषय पर वर्कशॉप

करेंसी और डिजिटल रिकॉर्ड रखने का अच्छा प्लेटफॉर्म है ब्लॉकचेन

पत्रिका PLUS रिपोर्ट

ग्वालियर • ब्लॉकचेन एक प्लेटफॉर्म है जहाँ ना सिर्फ डिजिटल करेंसी बल्कि किसी भी चीज को डिजिटल बनाकर उसका रिकॉर्ड रखा जा सकता है। यानी ब्लॉकचेन एक डिजिटल लेजर है। इसकी डिमांड इंडिया में समय के साथ जबरदस्त बढ़ी है। वहीं बिटकॉइन एक डिजिटल माध्यम है, जिसके जरिए कुछ चीजें बेची और खरीदी जा सकती हैं। यह जानकारी इग्नाइट आइटी सर्विसेज के प्रमुख संजय भार्गव ने वर्कशॉप में दी।

माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस (एमआइटीएस) में इंडियन सोसायटी ऑफ टेक्निकल एजुकेशन की ओर से दो दिवसीय 'शनिवार' वर्कशॉप की शुरुआत शनिवार को हुई। इसे एआईसीटीई स्पाइस के द्वारा प्रस्तुत किया गया। शुभारंभ आइएसटीई की अध्यक्ष डॉ. मंजरी पंडित ने किया। इस अवसर पर छात्र कल्याण संध के अध्यक्ष डॉ. राकेश कंसल एवं रजिस्ट्रार डॉ. प्रवेश जयसवाल मौजूद रहे। कार्यक्रम की रूपरेखा आइएसटीई के समन्वयक प्रोफेसर विशाल चौधरी ने प्रस्तुत की। वर्कशॉप से देशभर के एक हजार स्टूडेंट्स ने भाग लिया।



जाने-अनजाने में महिला होने का एहसास करा देते हैं पुरुष

आइक्यूएसी और गर्ल्स ग्रीवांस सेल की ओर से 'अंडरस्टैंडिंग जेंडर सेन्सिटिविजेशन' विषय पर कार्यशाला हुई। कार्यशाला में जीवाजी युनिवर्सिटी की प्रेरणा प्रिया ने जेंडर सेन्सिटिविजेशन पर व्याख्यान दिया। उन्होंने बताया कि महिलाएं, पुरुषों से किसी मामले में कम नहीं हैं। ये

बात हम हर रोज सुनते हैं, कहते हैं और किताबों में पढ़ते भी हैं, लेकिन असल जीवन में इसका पालन बहुत कम लोग ही करते हैं। जीवन के हर मोड़ पर पुरुष जाने अंजाने में महिलाओं को उनके महिला होने का एहसास कराने से नहीं चूकते। यही एहसास लैंगिक संवेदनहीनता का

जनक है और इसी को खत्म करने के लिए जेंडर सेंसेटाइजेशन यानी लैंगिक संवेदनशीलता जरूरी है। कार्यशाला में लगभग 150 फेकल्टी मेंबर्स उपस्थित रहे। अतिथि के रूप में डॉ. मंजरी पंडित, डॉ. प्रवेश जयसवाल और डॉ. राजीव कंसल मौजूद थे।

नियम के दायरे से बाहर हैं क्रिप्टोकॉरेसी

वर्तमान में बिटकॉइन और अन्य क्रिप्टोकॉरेसी भारत में कानूनी दायरे से बाहर हैं। हम उन्हें अवैध नहीं कह सकते। क्योंकि वे अभी तक देश में किसी भी केंद्रीय प्राधिकरण द्वारा उपयोग के लिए अधिकृत नहीं किया गया है। क्रिप्टोकॉरेसी फिलहाल किसी भी विनियम या नियम के दायरे से बाहर है। इस वजह से बिटकॉइन और अल्ट्रकोइन लेनदेन जोखिम भरा है।

स्टूडेंट्स ने समझी डेवोप्स की कार्य पद्धति

कार्यशाला में मेटर्नबडी संस्था के प्रमुख नितेश करमाकर ने डेवोप्स की कार्य पद्धति को समझाया एवं इसके कौशल का वर्तमान व भविष्य में उपयोग में लाने के महत्वपूर्ण विषय बताए, जिससे छात्र-छात्राएं इस कौशल का उपयोग अपने सुनहरे भविष्य के लिए कर पाएं। कार्यशाला का उद्देश्य भारत सरकार द्वारा चलाए गए अभियान स्किल इंडिया को बढ़ावा देना है, जिसमें स्टूडेंट्स अपने कौशल एवं चरित्र को बढ़ाकर राष्ट्र निर्माण में योगदान दे सकते हैं।

कार्यशाला में ब्लॉकचेन और क्रिप्टोकॉरेसी की दी जानकारी

ग्वालियर। माधव प्रौद्योगिकी एवं विज्ञान संस्थान (एमआइटीएस) ग्वालियर में इंडियन सोसाइटी ऑफ टेक्निकल एजुकेशन द्वारा शनिवार के अंतर्गत दो दिवसीय कार्यशाला का शुभारंभ शनिवार को किया गया। जिसके प्रथम सत्र में डेवोप्स की कार्यप्रणाली के बारे में विद्यार्थियों को जानकारी दी गई। वहीं द्वितीय सत्र में ब्लॉकचेन एवं क्रिप्टोकॉरेसी से विद्यार्थियों को विशेषज्ञों ने अवगत कराया। कार्यक्रम में आइएसटीई टीम के विद्यार्थियों द्वारा वेबसाइट पर पाइरेट्स ऑफ वेबियन तैयारी की गई। कार्यशाला में एक हजार विद्यार्थियों ने भाग लिया। कार्यक्रम की अध्यक्षता आइएसटीई अध्यक्ष डा. मंजरी पंडित ने की। इस अवसर पर विशेषज्ञ संजय भार्गव, विशाल चौधरी, नितेश करमाकर उपस्थित रहे। -नप्र

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