

**Faculty Development Program  
(through Online mode)**

on

**“GIS & Remote Sensing”**

**Sponsored By**

**AICTE - Training and Learning  
(ATAL) Academy**



**06<sup>th</sup> -10<sup>th</sup> July 2021**



**Organized By**

**Department of Electronics &  
Telecommunication Engineering  
Institute of Engineering and Technology  
(University Teaching  
Department)**

**Devi Ahilya University**  
Khandwa Road, Indore (M.P.) – 452017,  
India  
[www.ietdavv.edu.in](http://www.ietdavv.edu.in)

**Registration for FDP:**

Through the online Link only :

<https://www.aicte-india.org/atal>

**About the Course:**

The contents of the FDP are designed in such a way that this program fulfills the model curriculum of AICTE on GIS & Remote Sensing. The FDP deals with geospatial technologies that include the study of Geographic Information Systems (GIS), Global Positioning Systems (GPS) and Remote Sensing. It plays vital role in our daily life activities and is embedded in most of the systems and applications such as weather forecasting, climate changes, navigation, route mapping etc. This FDP also focuses on various kinds of sensors mounted on satellite/aircraft for data acquisition and also on digital image processing techniques used for remote sensing. The FDP shall dwell on current and future development as well as future R & D trends in technologies related to above areas.

**FOCUS AREAS**

- Geographical Information Systems and Applications
- Geospatial Technology for Environmental Hazards & Disaster Management
- Application of Geospatial Technology for Earth Resource Survey; Its Future Trends & Opportunities
- GPS/GNSS remote sensing for various applications
- Satellite in remote sensing
- Sensors for remote sensing
- Digital image processing for remote sensing
- GIS, GPS in Engineering & Technology
- Climate change and remote sensing
- Future Trends of Geospatial technologies/Drone systems

**Address for Correspondence & Coordinator:**

**Dr. Uma Rathore Bhatt,**

Assistant Professor,  
Institute of Engineering and Technology, Devi Ahilya  
University, Khandwa Road, Indore  
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Email: [umabhath@ietdavv.edu.in](mailto:umabhath@ietdavv.edu.in), [uvrathore@gmail.com](mailto:uvrathore@gmail.com),  
[umarathore@rediffmail.com](mailto:umarathore@rediffmail.com)

**Key Invited Speakers:**

**Dr Kunal Kumar Das**

Professor & Scientist (Retd),  
Indian Institute of Remote Sensing, ISRO  
Deharadun,

**Dr. Krishna Mohan Buddhiraju**

Professor  
Centre of Studies in Resources  
Engineering  
Indian Institute of Technology, Bombay, Mumbai

**Dr. Y.S. Rao**

Professor  
Centre of Studies in Resources  
Engineering  
Indian Institute of Technology, Bombay, Mumbai

**Dr. Siddharth Soni**

Chairman, Indian Society of Remote Sensing,  
Indore Chapter

Founder coordinator & Professor Emeritus,  
Centre for Remote Sensing and Satellite  
Technology SGSITS Indore,

**Dr. Saurabh Das**

Asst. Professor  
Astronomy, Astrophysics & Space Engineering  
Indian Institute of Technology, Indore

**Dr. Dericks P Shukla**

Asst. Professor  
School of Engineering,  
Indian Institute of Technology, Mandi  
Himachal Pradesh

**Mr. Hari Shankar Gangwar**

Scientist/Engineer ‘SE’  
Disaster Management Studies Department, Indian  
Institute of Remote Sensing, ISRO Dehradun

**Dr. Uma Rathore Bhatt**

Asst. Professor,  
Dept. of E&TC, IET, DAVV Indore

**Targeted Participants:** Faculty members from  
Engineering Colleges, research scholars, post graduate  
students and personnel from government/industry.

**Registration fees:** There is NO registration fee for  
participants. Registration can be through link:

<https://www.aicte-india.org/atal>

Institute of Engineering and Technology, Devi Ahilya University, Indore  
 Schedule for AICTE Sponsored FDP Program on “GIS & Remote Sensing”  
 06th -10th July 2021

DAY/Timings		Session I 09:00 AM-11:00AM	Session II 11:15 AM-1:15PM	Session III 2:00PM-4:00PM
06-07-2021	Name of Expert	<b>Dr. Uma Rathore Bhatt</b>	<b>Dr. Uma Rathore Bhatt</b>	<b>Mr. Hari Shankar Gangwar</b>
	Organization	IET, DAVV, Indore	IET, DAVV, Indore	Scientist/Engineer ‘SE’, Disaster Management Studies Department, Indian Institute of Remote Sensing, ISRO Dehradun
	Topic	Introduction and overview of the FDP	Satellite in Remote Sensing	Geographical Information Systems and Applications
07-07-2021	Name of Expert	<b>Mr. Hari Shankar Gangwar</b>	<b>Dr. Saurabh Das</b>	<b>Dr. Saurabh Das</b>
	Organization	Scientist/Engineer ‘SE’, Disaster Management Studies Department, Indian Institute of Remote Sensing, ISRO Dehradun	Asst. Professor Astronomy, Astrophysics & Space Engg Indian Institute of Technology, Indore	Asst. Professor Astronomy, Astrophysics & Space Engg. Indian Institute of Technology, Indore
	Topic	Remote Sensing technology and Satellite Sensors	GPS/GNSS Remote Sensing for Various Applications	Climateinformatics-Machine Learning and Big Data in Climate Study
08-07-2021	Name of Expert	<b>Dr. Kunal Kumar Das</b>	<b>Dr. Kunal Kumar Das</b>	<b>Dr. Dericks P Shukla</b>
	Organization	Professor & Scientist (Retd), Indian Institute of Remote Sensing, ISRO Dehradun	Professor & Scientist (Retd), Indian Institute of Remote Sensing, ISRO Dehradun	Asst. Professor School of Engg., IIT, Mandi
	Topic	Geospatial Technology for Environmental Hazards & Disaster Management	Application of Geospatial Technology for Earth Resource Survey; Its Future Trends & Opportunities	Remote Sensing Applications
09-07-2021	Name of Expert	<b>Dr. Krishna Mohan Buddhiraju</b>	<b>Dr. Y.S. Rao</b>	<b>Ms. Neeta Raghuvanshi</b>
	Organization	Professor CSRE, IIT Bombay	Professor, CSRE, IIT Bombay	Certified Heartfulness Meditation Trainer
	Topic	Digital image processing for remote sensing	Processing of remotely sensed images using google Earth engine and Sentinel hub cloud platforms (LAB)	<b>Meditation</b>
10-07-2021	Name of Expert	<b>Dr.Siddharth Soni</b>	<b>Dr. Siddharth Soni</b>	Dr. Uma Rathore Bhatt
	Organization	Chairman, ISRS, Indore Chapter Founder coordinator, CRSST & Professor Emeritus SGSITS Indore	Chairman, ISRS, Indore Chapter Founder coordinator, CRSST & Professor Emeritus SGSITS Indore	IET, DAVV, Indore
	Topic	GIS, GPS in Engineering & Technology	Application of Drone systems	Test Conduction/ Feedback/ Valedictory function



# Institute of Engineering and Technology, Devi Ahilya University, Indore

## Schedule for AICTE Sponcered FDP Program on "IoT form Hardware Prospective"



**19th - 23rd July 2021**

Day / Timing	Session I		Session II		Session III
	10:00 am -12:00 Noon		12:10 noon- 02:10pm		2:30pm- 4:30pm
19-07-2021	Dr Vaibhav Neema, IET-DAVV, Indore	TEA BREAK	Mr. P. W. Dandekar, Co-Founder at a startup building smart electric vehicles, Indore	Lunch Break	Dr. Anirban Sengupta, IIT Indore
	Introduction and overview of the IoT		Introduction to ESP-32 Microcontroller as an edge device		Biometrics Authentication for Hardware Security and Trust
20-07-2021	Dr. Sudeb Dasgupta, IIT Roorkee		Dr. S. K. Vishvakarma, IIT Indore		Dr. Shailesh Singh Chouhan, Luleå University of Technology, Sweden
	IoT Applications		Edge AI Computing for IOT		Journey of IoT hardware from Prototype to Production
21-07-2021	Dr. Puneet Gupta, IIT Indore		Dr. Sachin Chaudhari, IIIT Hyderabad		Dr. Sachin Chaudhari, IIIT Hyderabad
	Heart rate monitoring using non-contact face videos for IoT		Communication Technologies for IoT		Signal Processing and Machine Learning for IoT
22-07-2021	Mr. Preet Yadav , NXP Semiconductors, Noida		Mr. Aditya Dubey, Scientech, Indore		Mr. Abhishek Gupta, Tevatron Tech., Noida
	IoT Security Acumens	IOT Product Design Life Cycle	Challenges & opportunities in emerging Technologies		
23-07-2021	Session for Meditation	Dr. Vaibhav Neema, IET-DAVV, Indore			
		Edge Technology for IoT Applications			

**Faculty Development  
Program(through Online mode)**

**on**

**“Cyber Security”**

**24<sup>th</sup>–28<sup>th</sup>August2021**

**Sponsored By  
AICTE - Training and Learning  
(ATAL) Academy**



**Organized By**



**Department of Electronics &  
Telecommunication Engineering**

**Institute of Engineering and  
Technology  
(University Teaching Department)**

**Devi Ahilya Vishwavidyalaya  
Khandwa Road, Indore, MP  
[www.ietdavv.edu.in](http://www.ietdavv.edu.in)**

**About the Course:**

Cyber security is a vital part of secure digital world used in our day-to-day life. Cyber security protects sensitive data, personal information, intellectual property and governmental & industry information systems from theft and damage risks. It is one of the emerging concerns with social and technical significance. Therefore this FDP aims to cover a wide spectrum of cyber security to empower knowledge-workers in research and innovation. The topics to be covered in FDP are:

- Fundamentals of Cyber Security
- Security Attacks & Countermeasures
- Hardware Cyber Security
- Policies for Web Security
- Cyber Financial Frauds
- Advances in Cyber Security

**Organizing committee:**

**Patron:**

**Dr. Sanjiv Tokekar**  
Director, IET-DAVV, Indore

**Coordinator:**

**Dr. Raksha Upadhyay**  
Associate Professor, IET-DAVV, Indore  
Cell: 7999711456, Whatsapp: 9993353996  
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**Co-Coordinator:**

**Mr. Tapes Sarsodia**  
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Mob. No. & WhatsApp: 9977036581  
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**Targeted Participants:**

Faculty members from Engineering Colleges, research scholars, post graduate students and personnel from government/industry.

**Invited Speakers:**

**Dr P D Vyavahare**

Former Head & Prof, Dept of E&TC, SGSITS, Indore

**Dr S S Tomar**

Senior Scientist, Raja Ramanna Centre for Advanced Technology, Indore

**Dr Anirban Sengupta**

Associate Professor, Dept of Computer Science Engg., Indian Institute of Technology, Indore

**Dr Devesh Jinwala**

Professor, Dept of Computer Engineering SVNIT, Surat

**Dr Adarsh Kumar**

Professor, Dept of Computer Science, University of Petroleum and Energy Studies, Dehradun

**Dr Sahdeo Padhye**

Associate Professor, Dept of Mathematics, MNNIT Allahabad, Prayagraj

**Mr Apoorva Gaiwak**

CEO, SGSITS Incubation Forum, Indore

**Dr Ambika Prasad Shah**

Assistant Professor, Dept of EE, Indian Institute of Technology, Jammu

**Dr Gaurav Varshney**

Assistant Professor, Dept of CSE, Indian Institute of Technology, Jammu

**CA Kirti Joshi**

Vice-chairman, Indore Branch of Institute of Chartered Accountants of India

**Dr Artee Dubey**

Meditation Trainer and counselor

**Registration:**

**Through the online Link only:  
<https://www.aicteindia.org/atal>**

**Institute of Engineering and Technology, Devi Ahilya Vishvavidyalaya, Indore**

**Schedule for FDP Program on “Cyber Security” From 24<sup>th</sup> – 28<sup>th</sup> August 2021**

**Inauguration of the FDP - 24 August 2021 at 09:30 AM**

Day/Timings		Session I 10:00 AM-12:00PM	Session II 12:30 Noon-02:30PM	Session III 03:00PM- 05:00PM
24-08-2021 (Tuesday)	Name of the Expert	<b>Dr P D Vyavahare</b>	<b>Dr Raksha Upadhyay</b>	<b>Dr Sahdeo Padhye</b>
	Organization	Former Professor and Head, SGSITS, Indore	Associate Professor , IET-DAVV, Indore	Associate Professor, MNNIT Allahabad, Prayagraj
	Topic	Foundations & Applications of Cryptography	Physical Layer Key Generation	Number Theory for Secure Communication
25-08-2021 (Wednesday)	Name of the Expert	<b>Mr Apoorva Gaiwak</b>	<b>Dr Devesh Jinwala</b>	<b>Dr Adarsh Kumar</b>
	Organization	CEO, SGSITS Incubation Forum, Indore	Professor, SVNIT, Surat	Professor, UPES, Dehradun
	Topic	Campus wide Network with Provision of Security Issues	Machine Learning for Malware Detection	Web/ Network Penetration Testing
26-08-2021 (Thursday)	Name of the Expert	<b>CA Kirti Joshi</b>	<b>Dr Gaurav Varshney</b>	<b>Dr Artee Dubey</b>
	Organization	Vice-Chairman, Indore branch of ICAI	Assistant Professor, IIT, Jammu	Meditation Trainer and counselor
	Topic	Cyber Financial Frauds	Network Layer Attacks and their Counterparts	Meditation for Joyfulness
27-08-2021 (Friday)	Name of the Expert	<b>Dr Gaurav Varshney</b>	<b>Dr Ambika Prasad Shah</b>	<b>Dr Anirban Sengupta</b>
	Organization	Assistant Professor, IIT, Jammu	Assistant Professor, IIT, Jammu	Associate Professor, IIT Indore
	Topic	Web Securities, Policies and Hands on Web Proxy	IC Reliability & Security: Challenges, Opportunities and Roadmap	Hardware Security of DSP Applications
28-08-2021 (Saturday)	Name of the Expert	<b>Dr Adarsh Kumar</b>	<b>Dr S S Tomar</b>	<b>Valedictory &amp; Feedback Session</b>
	Organization	Professor, UPES, Dehradun	Scientific Officer (H) , RRCAT, Indore	
	Topic	Cyber Forensics and Cyber Threat Intelligence	Recent Advances in Cyber Security	

**Faculty Development Program**  
(through Online mode)

on

**“Robotics: Exploring  
Technology of Tomorrow”**

Sponsored By  
**AICTE - Training and Learning  
(ATAL) Academy**



**14<sup>th</sup> -18<sup>th</sup> September 2021**



**Organized By**

**Department of Electronics &  
Telecommunication Engineering  
Institute of Engineering and Technology  
(University Teaching  
Department)**

**Devi Ahilya University**  
Khandwa Road, Indore (M.P.) – 452017,  
India

[www.ietdavv.edu.in](http://www.ietdavv.edu.in)

**Registration for FDP:**

There is NO registration fee for participants.

Registration can be through link:

<https://www.aicte-india.org/atal>

**About the Course:**

The contents of the FDP are designed in such a way that this program fulfills the model curriculum of AICTE on Robotics. Robotics is a multidisciplinary field that involves design, construction, operation and use of robots for various applications. Advancement in this field has not only reduced the human efforts but has also set the new standards of precision and accuracy in the various fields of its applications. Robotics has unfathomable future which may lead to a new step towards human evolution. This FDP inculcates the knowledge of diverse fields of engineering for progress of robotics. The FDP shall dwell on current and future development as well as future R & D trends in technologies related to above areas.

**FOCUS AREAS**

- Experiments in Basic robotics to learn about automation
- Electronics for robotics
- Internet of robotics
- Rehabilitation robotics
- Multi robot systems
- Nature inspired mechanisms for robots
- Data robotics: data driven machine learning robots
- Arduino based robots
- AI & robotics
- Sensors and actuators in robotics
- Robotics2Rural: Innovative teaching & research approaches
- Current R&D in robotics

**Coordinator:**

**Dr. Sanjiv Tokekar**

Professor, Institute of Engineering and Technology, Devi Ahilya University, Indore, Cell: 9425322306 E-mail:

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**Address for Correspondence & Co-Coordinator:**

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Assistant Professor,

Institute of Engineering and Technology, Devi Ahilya

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Email: [umabhatter@ietdavv.edu.in](mailto:umabhatter@ietdavv.edu.in), [uvrathore@gmail.com](mailto:uvrathore@gmail.com)

**Key Invited Speakers**

**Dr. Shivashankar B. Nair**

Professor

Dept. of Computer Science & Engineering,  
Indian Institute of Technology, Guwahati

**Dr. Subir Kumar Saha**

Professor

Department of Mechanical Engineering  
Indian Institute of Technology, Delhi

**Dr. Arpita Sinha**

Associate Professor

Systems and Control Engineering  
Indian Institute of Technology, Bombay

**Dr. Anjali V Kulkarni**

Principal Research Engineer

Centre for Mechatronics

IIT Kanpur

**Dr. Santhakumar Mohan**

Associate Professor, Mechanical Engineering  
Indian Institute of Technology (IIT) Palakkad

**Dr. Sonali Agarwal**

Associate Professor, Dept of Information &  
Technology

Indian Institute of Technology,  
Allahabad

**Mr. Satish Thakare**

Chief Technical Officer

Sciencetech Technologies Pvt. Ltd., Indore

**Mr. Manish Joshi**

GM, Marketing

Sciencetech Technologies Pvt. Ltd., Indore

**Dr. Prakash Dandekar**

Retd. Professor SGSITS, Indore

Co-Founder at a startup building smart

electric vehicles, Indore

**Ms. Neeta Raghuvanshi**

Certified Heartfulness Meditation Trainer

**Targeted Participants:** Faculty members from  
Engineering Colleges, research scholars, post graduate  
students and personnel from government/industry.

**Faculty Development Program**  
(through Online mode)

on  
**“Data Sciences”**

**04<sup>th</sup> - 08<sup>th</sup> October 2021**

**Sponsored By**  
**AICTE - Training and Learning**  
**(ATAL) Academy**



**Organized By**



**Department of Information Technology**

**Institute of Engineering and Technology**  
(University Teaching Department)

**Devi Ahilya Vishwavidyalaya**  
Khandwa Road, Indore, MP  
[www.ietdavv.edu.in](http://www.ietdavv.edu.in)

**About the Course:**

Data Sciences is a vital part of everybody day to day life. Data analysis includes predictive analysis, machine learning techniques, decision support systems, business intelligence and a lot more. It is one of the emerging concerns with social and technical significance. Therefore this FDP aims to cover a wide spectrum of Data Sciences to empower knowledge-workers in research and innovation. The topics to be covered in FDP are:

- Fundamentals of Data Sciences
- Nature Inspired Algorithms for financial forecasting
- Developing Business Intelligence Models
- Decision support Systems using Soft Computing Techniques
- Stock Market Forecasting
- Various Advances in Data sciences

**Address for Correspondence & Coordinator:**

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Assistant Professor,  
Institute of Engineering and Technology,  
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Email: [vkapoor@ietdavv.edu.in](mailto:vkapoor@ietdavv.edu.in)

**Targeted Participants:** Faculty members from Engineering Colleges, research scholars, post graduate students and personnel from government/industry.

**Registration: Through the online Link only :**  
<https://www.aicte-india.org/atal>

**Invited Speakers:**

**Dr. Shubhamoy Dey**  
Prof, Information Sciences area, Indian Institute of Management, Indore M.P.

**Dr. Kanak Saxena**  
Professor, SATI Videsha, M. P.

**Dr. Kamal Raj Pardasini**  
Professor, MANIT, Bhopal.

**Dr. Akhilesh Tiwari**  
Head & Prof, Dept of Computer Engg. and IT, MITS, Gwalior

**Dr. Karan Singh**  
Associate Professor, Dept of Computer Science Engg., JNU, New Delhi.

**Dr. Vaibhav Jain**  
Assistant Professor, Institute of Engineering and Technology, devi Ahilya University, Indore.

**Vivek Dahiya**  
Director, Boudhik Ventures Pvt. Ltd. Gurgaon

**Institute of Engineering and Technology, Devi Ahilya University, Indore**  
**Tentative Schedule for AICTE Sponsored FDP Program on “Data Sciences”**

**04<sup>th</sup> - 08<sup>th</sup> August 2021**

Day/Timings		Session I 10:00 AM-11:30AM	Session II 12:00 Noon-1:30PM	Session III 2:00PM-3:30PM
04-10-2021	Name of Expert	<b>Dr. Kamal Raj Pardasini</b>	<b>Dr. Shubhamoy Dey</b>	<b>Dr. Shubhamoy Dey</b>
	Organization	Head & Prof, Dept of Computer Applications, MANIT, Bhopal.	Prof, Information Sciences Area, Indian Institute of Management, Indore M.P.	Prof, Information Sciences Area, Indian Institute of Management, Indore M.P.
	Tentative Topic	Current Trends and Challenges in Data Sciences	Big Data and Hadoop Part 1	Big Data and Hadoop Part 2
05-10-2021	Name of Expert	<b>Dr. Vivek Kapoor</b>	<b>Dr. Vaibhav Jain</b>	<b>Dr. Vaibhav Jain</b>
	Organization	Assistant Prof. , Institute of Engineering and Technology, Devi Ahilya University, Indore M.P.	Assistant Prof. , Institute of Engineering and Technology, Devi Ahilya University, Indore M.P.	Assistant Prof, Institute of Engineering and Technology, Devi Ahilya University, Indore M.P.
	Tentative Topic	Genetic Algorithms in Stock Trading Optimization	R Programming for Data Science	Hands on R-Proramming
06-10-2021	Name of Expert	<b>Dr. Kanak Saxena</b>	<b>Dr. Kanak Saxena</b>	<b>Dr. Akhilesh Tiwari</b>
	Organization	Professor, SATI Videsha, M. P.	Professor, SATI Videsha, M. P.	Head & Prof, Deptt. of Information Technology, MITS, Gwalior
	Tentative Topic	Predictive Data Analysis	Supervised Machine Learning	Data Mining, Warehousing and Pattern Warehousing
07-10-2021	Name of Expert	<b>Dr. Karan Singh</b>	<b>Dr. Akhilesh Tiwari</b>	<b>Dr. Akhilesh Tiwari</b>
	Organization	Prof. Department of Computer Applications, Jawaharlal Nehru University, New Delhi	Head & Prof, Deptt. of Information Technology, MITS, Gwalior	Head & Prof, Deptt. of Information Technology, MITS, Gwalior
	Tentative Topic	Trust Issues in Data Sciences	Association Analysis Part 1	Association Analysis Part 2
08-10-2021	Name of Expert	<b>Vivek Dahiya</b>	<b>Dr. Kanak Saxena</b>	<b>Valedictory</b>
	Organization	Patent Attorney & Director, Boudhik Ventures, Gurugram	Professor, SATI Videsha, M. P.	
	Tentative Topic	Patent Filing and Drafting	Decision Making with Business Intelligence	