



**A REPORT
OF
FACULTY DEVELOPMENT PROGRAMME
ON**

ROBOTICS AND ARTIFICIAL INTELLIGENCE

**CONDUCTED THROUGH NKN
BY**

**DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION
ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA, BILASPUR (C.G)**

IN ASSOCIATION WITH

ICT ACADEMIES

MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY (MEITY), GOV. OF

DATE : 24-28 JUNE 2019

**PRINCIPAL CO-ORDINATING
ACADEMY**

IITDM JABALPUR

**CO-PRINCIPAL CO-ORDINATING
ACADEMY**

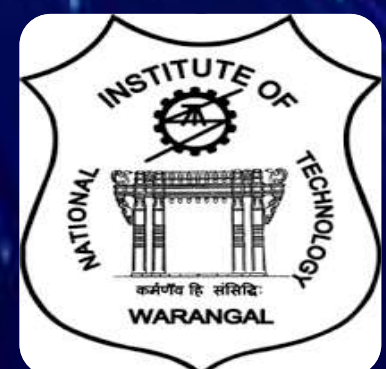
NIT WARANGAL

CO-ORDINATOR, REMOTE CENTRE

**Dr. H. S. HOTA
HOD
DEPT. of CSA
ABVV, BILASPUR (C.G.)**

ABOUT ICT ACADEMICS

India is fast emerging as a world power in Information, Communications Technology and Electronics (ICTE) sectors. To complement its growth and further development, there is an ever-increasing need for trained professionals with specialization in this space. This includes training of professionals not only in existing and changing technologies but also in the fields of R&D and electronics manufacturing. This will specifically be aimed at the ICTE sector to create a substantial resource pool of talent and generate ample opportunities for entrepreneurs. Ministry of Electronics & Information Technology (Meity) has approved a scheme and setup Electronics and ICT Academies at 07 (seven) institutions viz. IIT Guwahati, IIT Kanpur, NIT Warangal, NIT Patna, IIITDM Jabalpur, IIT Roorkee and MNIT Jaipur. The Ministry had earlier setup two ICT Academies at Tamil Nadu and Kerala respectively. These Academies are aimed at faculty/mentor development and upgradation to improve the employability of the graduates, diploma holders in various streams, through collaboration of States/Union Territories. Each Academy is being provided funding support for four years and is expected to generate revenue by charging fee and taking up other activities to meet the recurring cost in a gradual manner and become self-sustainable by the end of fourth year onwards. All these Academies will cater to the requirements of identified neighbouring States and UTS also.



ABOUT REMOTE CENTRE

Electronics & ICT Academy, PDPM IIITDM Jabalpur has identified Department of Computer Science & Application, Atal Bihari Vajpayee University, Bilaspur (C.G.) as remote nodal centre to run FDP from time to time.

The objective is to meet the skill requirements of the industry and generate more employment especially in tier 2 and 3 towns, the rural parts of the country. Initially the department was the only remote nodal centre in the state of CG.

MODULES COVERED IN THIS FDP

INTRODUCTION TO ROBOTICS AND ROBOT SIMULATORS

KINEMATICS, DYNAMICS AND CONTROL

ARTIFICIAL INTELLIGENCE AND ROBOTICS

MORE ON AI AND MACHINE LEARNING: REINFORCEMENT LEARNING

APPLICATIONS, RESEARCH DIRECTIONS AND CASE STUDIES

PARTICIPANTS

The event was very interactive whereby 18 participants enthusiastically showcasing their curiosity and eagerness to learn. They learnt about new technical skills.

EVENT DETAILS

The Faculty Development Program (FDP) on "Robotics and Artificial Intelligence" took place from June 24 to June 28, 2019. This program was organized in a physical mode at a remote nodal center, Department of Computer science and application, Atal Bihari Vajpayee university, Bilaspur, identified by the IIITDM ICT Academy. The lectures were delivered through online mode, using the Vidyo application. The FDP attracted a total of 18 participants from nearby universities and colleges. IIITDM Jabalpur served as the principal coordinating academy, while NIT Warangal acted as the co-principal coordinating academy for this FDP. The program aimed to explore the interconnected fields of robotics and artificial intelligence, which are emerging as crucial areas in the 21st century. The FDP covered essential topics related to robotics, artificial intelligence (AI), and machine learning (ML). These areas represent cutting-edge technology and have vast applications in various domains. The program provided participants with in-depth knowledge and hands-on practice in these subjects. Participants in the FDP enjoyed the practical aspects of the program, where they had the opportunity to engage in hands-on practice related to robotics, AI, and ML. This experiential learning approach allowed them to gain practical skills and insights into these emerging technologies. The FDP concluded on a high note as Vice Chancellor Prof. G.D. Sharma distributed certificates to all 18 participants. The certificate distribution ceremony marked the successful completion of the program, and a group photo was taken to capture the memory of this valuable learning experience.

In conclusion, the online Faculty Development Program on "Robotics and Artificial Intelligence" in a physical mode at a remote nodal center was a valuable initiative. It allowed participants to delve into the exciting fields of robotics, AI, and ML, equipping them with practical skills and knowledge. The collaborative effort of multiple prestigious institutions and the hands-on approach to learning enriched the experience. Such programs are essential in keeping educators and learners updated with the latest technologies and fostering a culture of continuous learning in the academic community.



DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION
ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA, BILASPUR (C.G.)
Near Gandhi Chowk, Bilaspur (C.G.) 495001
Website : www.bilaspuruniversity.ac.in

No.: 877/CSA/2019

Date: 23-07-2019

To,

The Chief Investigator
Electronics and ICT academy
IITDM, Jabalpur

Subject: Settlement of Bills of Faculty development program held during May-June, 2019 regarding.

Respected Sir/Madam

As per above mentioned subject we have conducted three faculty development program on Robotics and AI from 24-06-2019 to 28-06-2019 as remote centre at Department of Computer Science and Application, Atal Bihari Vajpayee University, Bilaspur, C.G., India.

Please find the detail of expenditure along with bills as per prescribed format for final settlement. Further, our university is **government state university** and hence for the purpose of audit we are unable to provide original copy of the bills, instead we are sending xerox copy of verified bills.

For necessary action please

Dr. H.S. Hota

Co-ordinator, Remote centre

Atal Bihari Vajpayee University
Bilaspur (C.G.), India

E-mail: proffhota@gmail.com

M. No. – 9425222658

विभागाध्यक्ष
कम्प्यूटर साइंस एण्ड एप्लीकेशन
अटल बिहारी वाजपेयी विश्वविद्यालय
बिलासपुर (छ.ग.)



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To,

The Chief Investigator
Electronics and ICT academy
IITDM, Jabalpur

Subject: Settlement of Bills of Faculty development program held during May-June, 2019 regarding.

Respected Sir/Madam

As per above mentioned subject we have conducted three faculty development programs namely Deep learning and Application from 27-05-2019 to 31-05-2019, Introduction to Programming: A pedagogical Approach from 17-06-2019 to 21-06-2019 and Robotics and AI from 24-06-2019 to 28-06-2019 as remote centre at Department of Computer Science and Application, Atal Bihari Vajpayee University, Bilaspur, C.G., India.

Further, our university is **government state university** and hence for the purpose of audit we are unable to provide original copy of the bills, instead we are sending xerox copy of verified bills.

Please consider the case and do the necessary action to settle the bills.

Mr. Bhavesh Dubey

Finance officer

Atal Bihari Vajpayee University,

Bilaspur (C.G.), India

Dr. H.S. Hota

Co-ordinator, Remote centre

Atal Bihari Vajpayee University,

Bilaspur (C.G.), India

E-mail: proffhota@gmail.com

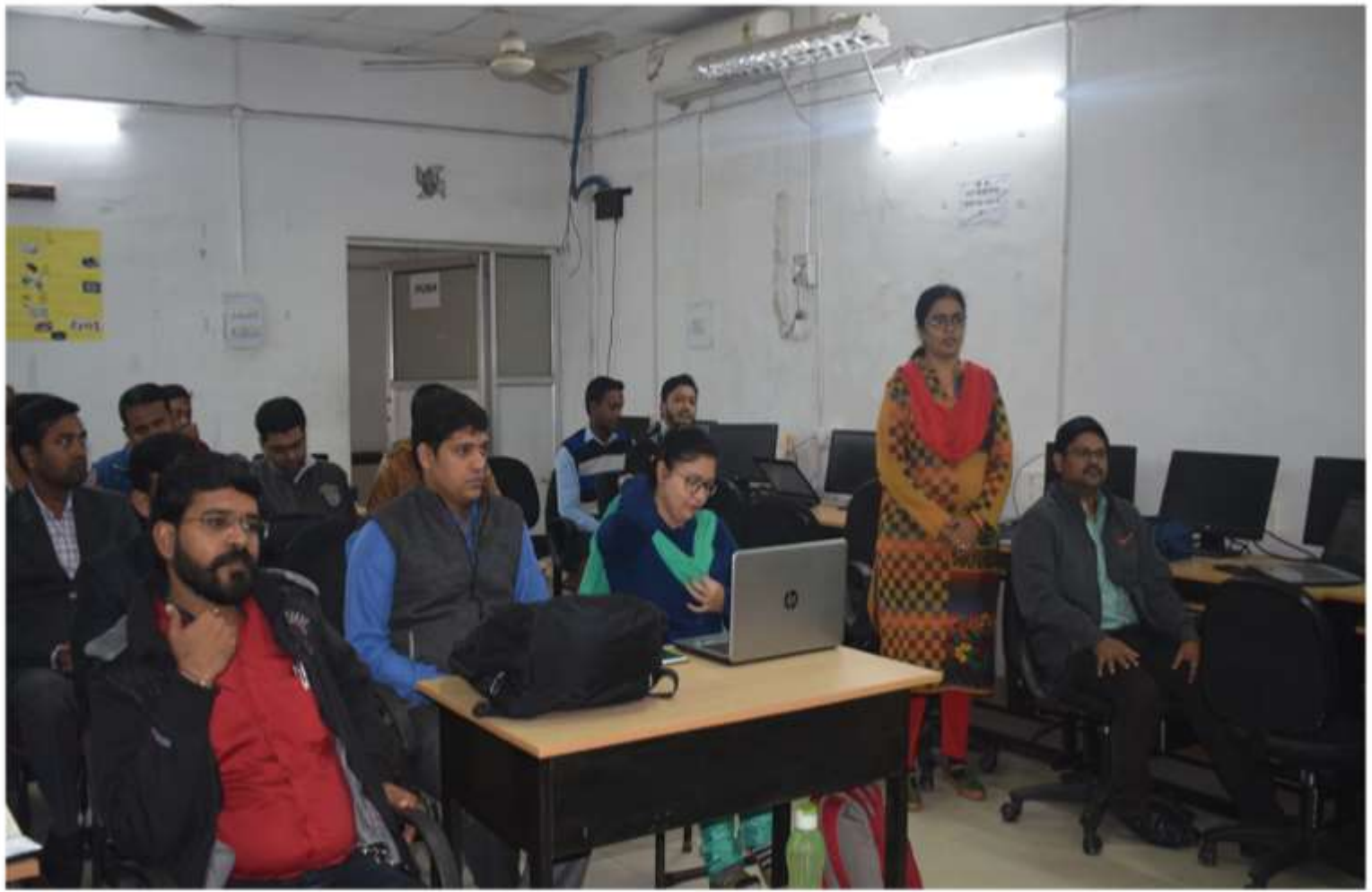
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GLIMPSES OF THE FDP



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ATTENDANCE OF PARTICIPANTS

ATTENDANCE SHEET OF PARTICIPANTS FOR FACULTY DEVELOPMENT PROGRAM: Robotics & AI
FORM 24 JUNE 2019 TO 28 JUNE 2019

S.No.	NAME OF PARTICIPANTS	24-06-2019		25-06-2019		26-06-2019		27-06-2019		28-06-2019	
		Session - I	Session - II	Session - I	Session - II	Session - I	Session - II	Session - I	Session - II	Session - I	Session - II
1	DR. H.S. HOTA										
2	VIVEK TIWARI										
3	SHISHIR KUMAR SHARMA										
4	AVINASH KUMAR TIWARI										
5	JEETENDRA KUMAR										
6	MAMTA SAHU										
7	KESHAV DATTA SHARMA										
8	PUSPESH KASHYAP										
9	UMESH KUMAR IJARDAR										
10	SHIVSHANKAR GUPTA										
11	LUKESWR PRASAD SAHOO										
12	PRERNA VERMA										
13	M. A. JAHANGIR										
14	DEVENDRA KUMAR SINGH										
15	DR. AKHILESH KUMAR										
16	SHRIVAS										
17	NAMRATA NEMA										
17	MANISHA CHAKRABORTY										
18	L.K. GAVEL										

Principal