



A REPORT

OF

FACULTY DEVELOPMENT PROGRAMME

ON

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

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 INDIA

DATE : 17-21 DECEMBER

**PRINCIPAL CO-ORDINATING
ACADEMY**

IIT ROORKEE

**CO-PRINCIPAL CO-ORDINATING
ACADEMY**

MNIT JAIPUR

CO-ORDINATOR, REMOTE CENTRE

Dr. H. S. HOTA

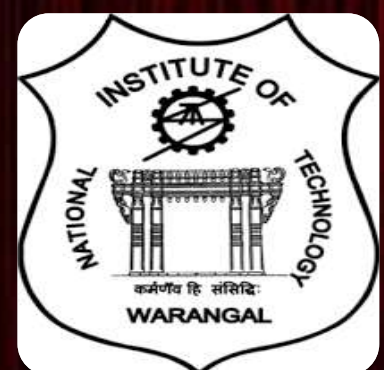
HOD

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 IITDM 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.

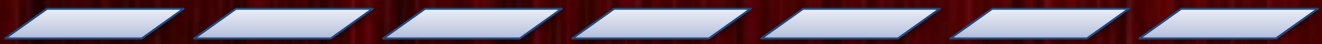
The objective is to meet the skill requirements of the industry and generate more employment especially in tier 2 and 3 towns, the rural parts of the country. Initially the department was the only remote nodal centre in the state of CG.

MODULES COVERED IN THIS FDP

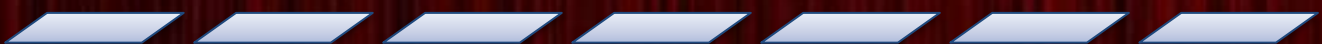
AI FUNDAMENTALS



SEARCH TECHNIQUES



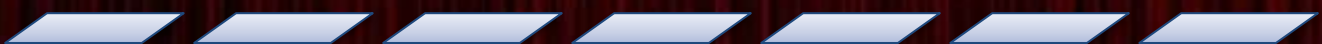
KNOWLEDGE REPRESENTATION



MACHINE LEARNING STRUCTURES



MACHINE LEARNING ALGORITHMS



PARTICIPANTS

The event was very interactive whereby 27 participants enthusiastically showcasing their curiosity and eagerness to learn. They learnt about new technical skills.

EVENT DETAILS

The Faculty Development Program (FDP) on Artificial Intelligence (AI) and Machine Learning (ML) was organized by the Department of Computer Science and Application at Atal Bihari Vajpayee University, Bilaspur. The FDP was held in collaboration with IIT Roorkee as the principal coordinating academy and MNIT Jaipur as the Co-Principal coordinating academy. This program spanned from December 17 to December 21, 2018, and it comprehensively covered the fundamentals of AI and ML up to advanced topics and their practical applications. Artificial Intelligence (AI) and Machine Learning (ML) have emerged as powerful technologies with a wide range of applications across various domains. They have the potential to revolutionize how we live, work, and interact with the world.

This FDP stood out by delivering its lectures and demonstrations through the National Knowledge Network (NKN) mode, facilitated by Vidyo software. This innovative approach allowed participants to access knowledge remotely and engage with distinguished speakers, overcoming geographical constraints. The inaugural function for all the FDPs took place in an online mode, bringing together participants from various remote centers across India.

Professor G.D. Sharma, the Vice Chancellor of Atal Bihari Vajpayee University, actively participated in the program from the university's remote center. He interacted with all 27 participants, emphasizing the commitment of the university to stay at the forefront of AI and ML education. This FDP marked the third in its sequence organized as a remote center under ICT Academy IIITDM Jabalpur, which highlighted the commitment of the university to continuous learning and collaboration in emerging fields.

The FDP on AI and ML was a significant initiative that empowered participants with a profound understanding of the AI and ML domains, from the fundamentals to advanced concepts and their practical applications. The utilization of NKN and Vidyo software made it accessible to a diverse audience, fostering remote learning and knowledge dissemination.

This program exemplified the university's dedication to staying at the forefront of technological advancements and its commitment to providing quality education in the field of AI and ML. Such initiatives contribute significantly to the growth and development of the academic community and align with the university's mission to promote cutting-edge education and research.

LETTER FROM VC

Prof. G.D. Sharma
Vice-Chancellor

ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA
Bilaspur (C.G.) 495001

Former Vice-Chancellor, Nagaland University (Central) &
Former Pro-Vice-Chancellor, Assam University (Central)



प्रो. जी. डी. शर्मा
कुलपति

अटल बिहारी वाजपेयी विश्वविद्यालय
बिलासपुर (छ.ग.) 495001

पूर्व कुलपति, नागालैण्ड विश्वविद्यालय (केन्द्रीय) एवं
पूर्व सह-कुलपति असम विश्वविद्यालय (केन्द्रीय)

No / 1985/P.A./2018

Bilaspur, Date 13.11.2018

To,

Prof. Aparajita Oja,
Chief Investigator,
Electronics and ICT Academy,
PDPM, IIITDM, Jabalpur (M.P.)

Dear Mam,

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

I am happy, that you have identified department of Computer Science and Application (CSA) of Atal Bihari Vajpayee University, (Earlier Bilaspur University) Bilaspur as Nodal Remote centre to conduct winter course 2018 to be held from 26th Nov. to 21st Dec, 2018 jointly by E and ICT academy, Ministry of Electronics and Information Technology (MeiTY) and IIITDM, Jabalpur.

I hope this centre will serve the purpose of unique initiative of Ministry of Electronics and Information Technology (MEITY), Govt. of India in the state of Chhattisgarh and the faculty members as well as research scholars of this region will be getting benefit from this program.

We have high speed NKN connectivity with Wifi and LAN facility, also computer labs are well-equipped with latest machines and software.

Dr. H.S. Hota, Associate professor and Head, Computer Science and application department of the university will be the Program Coordinator for the proposed Faculty development programs.

I will be happy to interact with you during the joint inaugural session.

with regards,

Yours Sincerely,

G.D. Sharma
13.11.18

(Prof G.D. Sharma)

LETTER FROM IITDM JABALPUR



पं. द्वारका प्रसाद मिश्र
भारतीय सूचना प्रौद्योगिकी,
अभिकल्पन एवं विनिर्माण संस्थान जबलपुर
(मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित)

Pt. Dwarka Prasad Mishra
Indian Institute of Information Technology,
Design & Manufacturing Jabalpur
(An Institute established by MHRD, Govt. of India)

No. IITDMJ/ICT/2018-19/343

Date: 12.11.2018

To,
Prof. G D Sharma,
Vice Chancellor,
Atal Bihari Vajpayee Vishwavidyalaya,
Bilaspur, Chhattisgarh.

Dear Sir,

Greetings from Electronics & ICT Academy, PDPM IITDM Jabalpur!

We express our sincere gratitude for the immense support provided by your Institute and faculty members in successfully conducting Joint Summer Courses 2018 during May-June 2018 through NKN. As you are aware, these programmes are jointly conducted by seven E&ICT academies (MeiTY) with the support of different institutions to reach large number of faculty members from across the country.

We are pleased to announce the WINTER COURSES 2018 to be held from 26th Nov to 21st Dec, 2018 jointly by the E&ICT Academies established by the Ministry of Electronics and Information Technology (MEITY), Govt. of India on the similar lines as the Summer Courses 2018 were held through NKN mode.

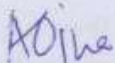
The Electronics and ICT Academy, IITDM Jabalpur is jointly organizing two courses namely DSP and Sensors, Artificial Intelligence and Machine Learning to be held during (Dec 10-21, 2018). Lectures will be delivered by experts from academia and industry through NKN mode. For lab sessions, local expertise will be involved to give the participants hands-on training in these topics. Common brochure for all the courses is attached herewith for more details and Principal Coordinating Academies. A minimum of 20 Participants need to be registered for each course.

The Schedule of the programmes will be the same as followed during the Summer Courses; with four hour NKN Session for Lectures and four hour Lab Sessions to practice at the nodal centres. The NKN room will be required for 4-6 hours each day with an additional room/lab space in the vicinity for hands on training to participants on desktops or on their laptops.

A local coordinator for each course shall be required to oversee that the content is appropriately available to the participants in the NKN room, besides facilitating conduct of hands-on in the afternoon session. He would be the overall incharge of programme and will also ensure connectivity issues and necessary coordination with the concerned Academy for arranging logistics.

We seek your kind consent to identify Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur as a remote (nodal) centre of the FDPs and help us successfully run programmes under this novel initiative. Since the courses are scheduled in forthcoming winter session starting December 10, 2018, your early consent will be highly solicited. Dr. Hari Shanker Hota had shouldered this responsibility during the Summer Courses in an excellent manner as the overall coordinator of the programme, as she has been nominated by your Institute as the nodal officer for the purpose. We seek your kind consent in taking his services as the coordinator of the programmes for the Winter Courses 2018 as well.

Looking forward to your kind positive response and with best regards,


Aparajita Ojha
Chief Investigator,
Electronics & ICT Academy,
PDPM IITDM Jabalpur

GLIMPSES OF FDP



GLIMPSES OF FDP



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