

**UGC-Human Resource Development Centre  
Guru Ghasidas Vishwavidyalaya, Bilaspur**

**6.3.3 Number of professional development / administrative training Programmes organized by the institution for teaching and non teaching staff during the year - From 01.06.2020 to 31.09.2021**

Year	Sl.No.	Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
2020-21	1	11/01/2021 to 23/01/2021	Refresher Course in Hindi (छात्रावादी कवियों को जीवित रहने (Subject Specific)	-	39
2020-21	2	11/01/2021 to 23/01/2021	Refresher Course on Banking Interaction & Financial Stability (Inter Disciplinary)	-	36
2020-21	3	18/01/2021 to 01/02/2021	Refresher Course on Law, Society and Social Change (Inter Disciplinary)	-	37
2020-21	4	01/02/2021 to 01/03/2021	1st "Guru-Dakshita" Faculty Induction Programme (FIP)	-	38
2020-21	5	15/02/2021 to 27/02/2021	Refresher Course on Nanoscience & Nano Technology and its Applications (Inter Disciplinary)	-	38
2020-21	6	15/02/2021 to 27/02/2021	Refresher Course : Winter School on Novel Insights in Life Sciences Research (Inter Disciplinary)	-	40
2020-21	7	15/02/2021 to 17/03/2021	2nd "Guru-Dakshita" Faculty Induction Programme (FIP)	-	38
2020-21	8	08/03/2021 to 13/03/2021	Short Term Course on Research Methodology-I	-	35
2020-21	9	08/03/2021 to 13/03/2021	Short Term Course on Research Methodology-II	-	30
2020-21	10	08/03/2021 to 20/03/2021	Refresher Course : Winter School on Learning Outcomes and Educational Reform – Pedagogy, Assessment and Quality Assurance (Inter Disciplinary)	-	34
2021-22	11	02/08/2021 to 14/08/2021	Refresher Course on Recent Advance in Life Science for Sustainable Development (ID)	-	39
2021-22	12	16/08/2021 to 15/09/2021	3rd GURU-DAKSHITA Faculty Induction Programme (FIP)	-	28
2021-22	13	23/08/2021 to 04/09/2021	Refresher Course in Chemistry	-	40
2021-22	14	23/08/2021 to 04/09/2021	Refresher Course on Research Methodology	-	40
2021-22	15	13/09/2021 to 18/09/2021	Short Term Course on Disaster Management	-	36
2021-22	16	13/09/2021 to 25/09/2021	Refresher Course on Non-linear Analysis for the Development of Neural Network Systems	-	21
2021-22	17	13/09/2021 to 13/10/2021	4th GURU-DAKSHITA Faculty Induction Programme (FIP)	-	36
2021-22	18	20/09/2021 to 04/10/2021	Refresher Course on ICT for Teaching-Learning and Research in Higher Education	-	27
			<b>Total</b>		<b>632</b>

  
**Director**  
 UGC - Human Resource Development Centre  
 Guru Ghasidas Vishwavidyalaya, Bilaspur

2/24/2021



Group Photograph of Dean, Convener, Coordinator, Participants  
& Staff-16-17 October, 2019 at Rajat Jayanti Sabhagar, GGV

REDMI NOTE 6 PRO  
MI DUAL CAMERA

**Two Day Workshop for Higher Secondary Teacher on Mobile Learning**

**20 August, 2019**

**Expert**

**Dr Sanjay Manohar Ayade,**  
Assistant Professor,  
Institute of Advanced Studies in Education (IASE)  
Bilaspur, CG

**Coordinator:** Dr Sudhir Sudam Kaware & Dr Sunil Kumar Sain  
**Participants:** Higher Secondary Teacher  
**Target participation:** 50  
**Number of Participants Enrolled :** 49  
**Expenditure:** 1,07,012 Rs.



**EXPERT giving information of preparation of teaching learning material during workshop**

**Participants engaged in their work of development of teaching learning material during workshop**



2/24/2021

Participants engaged in their work of development of teaching learning material during workshop



Participants observes development of teaching learning material during workshop

प्रथम चरण : उच्च प्राथमिक स्तर के लिए हिंदी भाषा व्याकरण पर स्व-अधिगम  
सामग्री के निर्माण हेतु दो दिवसीय कार्यशाला

16-17<sup>th</sup> October, 2019

विषय विशेषज्ञ  
डॉ. क्षमा त्रिपाठी, उन्नत शिक्षा अध्ययन संस्थान, बिलासपुर (छ.ग.)  
&  
डॉ. राघवेंद्र हुरमाडे, उन्नत शिक्षा अध्ययन संस्थान, देवी अहिल्या  
विश्वविद्यालय, इंदौर

**Coordinator:** Mr Basant Kumar

**Participants:** Teacher Educators (Hindi)/Teachers(Hindi) /Research  
Scholars (Hindi)

**Target participation:** 30

**Number of Participants Enrolled :** 26

**Expenditure:** Under adjustment process



**Development of Braille Learning Materials for Primary  
Classes**

**12th-13<sup>th</sup> March, 2019**

**Expert**

**Dr Pallavi Shankar,**  
Former Asst. Director, NAB,  
India

**&**

**Dr Sampada Sandip Palnitkar**  
Former Programme Manager, NAB

**Coordinator:** Dr Sambit Kumar Padhi & Dr Payel Banerjee

**Participants:** Teacher Educators/Teachers/Research Scholars/Prospective  
Teacher Educators(Science)

**Target participation:** 30

**Number of Participants Enrolled :** 20+ 10

**Expenditure:** 2,52,743/- Rs. (Braille & Audio)



Coordinator speaks about objectives of workshop during inauguration programme

Participants listening carefully during workshop







Participants showing their teaching learning material during workshop



Participants engaged in their work of development of teaching learning material during workshop



Coordinator presenting  
report in Valedictory  
programme of workshop

Participants participates in  
activity observed by Expert  
during workshop





Expert addressing about development of teaching learning material during workshop

Dean, Convener, Participants during workshop





Expert explains development of teaching learning material during workshop



Expert observes the work of participants during workshop



Number of Participants  
Expenditure: 3,51,128/-Rs

**A TWO-DAY WORKSHOP ON SCIENCE TLM PREPARATION  
(PHASE-II)**

7th-8<sup>th</sup> March, 2019

**Expert**

**Dr Dhananjay Pandey,**  
Lecturer, Govt. Multipurpose Hr Sec School,  
Bilaspur, Chhattisgarh

**Coordinator:** Dr Sonia Sthapak

**Participants:** Teacher Educators/Teachers/Research Scholars/Prospective  
Teacher Educators(Science)

**Target participation:** 30

**Number of Participants Enrolled :** 10

**Expenditure:** 94,386 Rs.

REDMI NOTE 6 PRO MI DUAL CAMERA

## Development of Audio Learning Materials for Primary Classes

12th-13<sup>th</sup> March, 2019

### Expert

**Dr Pallavi Shankar,**  
Former Asst. Director, NAB,  
India

&

**Dr Sampada Sandip Palnitkar**  
Former Programme Manager, NAB

**Coordinator:** Dr Sambit Kumar Padhi & Dr Payel Banerjee

**Participants:** Teacher Educators/Teachers/Research Scholars/Prospective  
Teacher Educators(Science)

**Target participation:** 30

**Number of Participants Enrolled :** 18

**Expenditure:** As given in previous slide



**ONE DAY WORKSHOP ON USE OF INDIAN SIGN LANGUAGE  
(ISL) IN SCHOOL TEACHING**

27 February, 2019

**Expert**

**Dr Surinder P. K. Randhawa,**  
Senior Consultant (Formar)  
Dept of Education, IGNOU,  
New Delhi

**Coordinator:** Dr Sunil Kumar Sain & Mr. Krishna Kumar Pathak

**Participants:** School Teacher/ Special Educators/Trained Teacher

**Target participation:** 30

**Number of Participants Enrolled :** 29

**Expenditure:** 1,08,187 Rs.



Expert demonstrates during workshop



Expert explains during workshop

Expert demonstrates during workshop



2/24/2021

**A TWO-DAY WORKSHOP ON SCIENCE TLM PREPARATION  
(PHASE-I)**

21-22 February, 2019

**Expert**

**Dr Jyotsna Vijapurkar,**  
Homi Bhabha Centre for Science Education (TIFR)  
Mumbai, Maharashtra

**Coordinator:** Dr Sonia Sthapak

**Participants:** Teacher Educators/Research Scholars/Assistant Professor

**Target participation:** 30

**Number of Participants Enrolled :** 30

**Expenditure:** 1,22,935 Rs.



Expert explains during workshop

Participants is doing assigned work with use of MS Excel during workshop



## Enrichment Activity on Working with Microsoft Excel

19 February, 2019

### Expert

**Dr N. K. Chaure,**  
PR SCIENTIST  
IGKV, BTCCARS, Bilaspur, Chhattisgarh

**Coordinator:** Dr Sonia Sthapak

**Participants:** Teacher Educators/Research Scholars/Assistant Professor

**Target participation:** 30

**Number of Participants Enrolled :** 30

**Expenditure:** 81,353 Rs.



REDMI NOTE 6 PRO  
MI DUAL CAMERA





Participants discussing on Gender Sensitivity during workshop



Participants carefully listening expert during workshop



**Participant receiving  
Certificate of Participation of  
Workshop**



2/24/2021



DEAN ADDRESSING  
VALEDICTORY PROGRAMME  
OF WORKSHOP



Dignitaries of the dais in  
PROGRAMME OF WORKSHOP

**A Two-Day Workshop for English Language Teachers on  
Reading Cards (Phase-III)**

**28-29 January, 2019**

**Experts**

**DR SISIRKANA BHATTACHARYA,**  
Assistant Professor, DIET,  
Durg, CG  
&  
**SMT. JESSY KURIAN,**  
Assistant Professor, ELTI,  
SCERT, Raipur, CG

**Coordinator:** Dr Sudhir Sudam Kaware

**Participants:** Assistant Professor (English)/ Research Scholars  
(English)/English Language Teachers

**Target participation:** 30

**Number of Participants Enrolled :** 23

**Expenditure:** 2,26,926 /-Rs.

**A Two-Day Workshop for English Language Teachers on  
Reading Cards (Phase-II)**

**11-12 September, 2018**

**Experts**

**DR SISIRKANA BHATTACHARYA,**  
Assistant Professor, DIET,  
Durg, CG

**SMT. JESSY KURIAN,**  
Assistant Professor, ELTI,  
SCERT, Raipur, CG

**Coordinator:** Dr Sudhir Sudam Kaware

**Participants:** Assistant Professor (English)/ Research Scholars  
(English)/English Language Teachers courier

**Target participation:** 30

**Number of Participants Enrolled :** 24

**Expenditure:** 1,31,170/-Rs.



Inaugural programme of  
Workshop- Addressing  
**Mr Shivaji Kushwaha**  
emphasizing importance  
of Reading Cards in  
English at Elementary  
level



PREPARATION OF READING MATERIAL BY  
PARTICIPANTS IN WORKSHOP



# CERTIFICATE

OF COORDINATOR



## GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G), INDIA

*This is to certify that*

***Mrs. Disha Dewangan***

*has worked as coordinator in One Day National Workshop on  
“Intellectual Property Rights”*

*organized by*

*Research & Development Committee, SOS(E&T), GGV, Bilaspur, (C.G), India.*

*On dated*

*28th November, 2020*

**Dean**

Prof. T. V. Arjunan  
Professor  
Mechanical Engg.

**Research Coordinator**

Dr. Jasinta Poonam Ekka  
Assistant Professor  
Mechanical Engg.

One Week Online Workshop on

# SKILL DEVELOPMENT FOR TECHNOLOGY TRANSFER

Organized by

Research & Development Cell, SoS (E&T) and  
Skill Development Cell GGV, Bilaspur

13 Sep. 2021 - 18 Sep. 2021



## About Speakers

Our speakers/experts from various NIT's and prestigious institutes. They will share their knowledge to develop participants skills towards technology transfer.



**Dr. Sandeep Kumar**

Professor, SIET Hyderabad



**Mr. Rajat Malhotra**

Partner, Ideas2IPR



**Dr. Shilpa Choudhary**

Associate Professor, NGIT Hyderabad



**Dr. R. N. Patel**

Associate Professor, NIT Raipur



**Dr. Md. Rashid Mahmood**

Professor, GNI Hyderabad

**Register Now**

<https://forms.gle/AN7zWwd9EN5d1yZu9>

## Contact Details

Mr. Amit Kumar Dewangan (9691168068)

Dr. Kundan Meshram (9424906326)

Dr. Anil Kumar Soni (9445220789)



**Chief Patron**

**Prof. Alok Kumar Chakrawal**  
Honorable Vice Chancellor  
GGV, Bilaspur



**Co-Convenor**

**Dr. Rohit Raja**  
Nodal Officer, SDC  
GGV, Bilaspur



**Patron**

**Prof. Shailendra Kumar**  
Registrar  
GGV, Bilaspur



**Organizing Secretary**

**Dr. Jasinta Poonam Ekka**  
Assistant Professor  
GGV, Bilaspur



**Convener**

**Prof. T.V. Arjunan**  
Dean, SoS E&T  
GGV, Bilaspur

## Programme Coordinator



**Dr. Kundan Meshram**  
Assistant Professor  
GGV, Bilaspur



**Dr. Anil Kumar Soni**  
Assistant Professor  
GGV, Bilaspur



**Mr. Amit Dewangan**  
Assistant Professor  
GGV, Bilaspur

## About University

Guru Ghasidas Vishwavidyalaya, is a Central University of India, located in Bilaspur C.G. State, established under Central Universities Act 2009, No. 25 of 2009. Formerly called Guru Ghasidas University (GGU), established by an Act of the State Legislative Assembly, was formally inaugurated on June 16, 1983. GGU is an active member of the Association of Indian Universities and Association of Commonwealth Universities. Situated in a socially and economically challenged area, the university is appropriately named to honor the great Satnami Saint Guru Ghasidas (born in 17th century), who championed the cause of the downtrodden and waged a relentless struggle against all forms of social evils and injustice prevailing in the society. The campus is lush green, calm and quiet and free from urban noise and pollution, an ideal temple for education and research

## About Workshop

This one week online workshop help the UG, PG, Research Scholar, Faculty Members and Industry Experts for development of their skill towards the technology transfer. Speakers from various reputed institutes and Industries will share their knowledge in the area of Writing skills, Projects, various MSME schemes, Patent and Entrepreneurship.

**Register Now**

<https://forms.gle/AN7zWwd9EN5d1yZu9>

**Last Date of Registration: 13 September 2021**



**RESEARCH & DEVELOPMENT CELL, SCHOOL OF STUDIES, ENGINEERING & TECHNOLOGY,  
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR(C.G.)**

**PRESENTS  
ONE DAY NATIONAL WEBINAR  
ON  
RECOMMENDER SYSTEMS**



**Prof. Korra Sathya Babu**

**Associate Professor, Department of Computer Science and Engineering,  
National Institute of Technology, Rourkela (India)**

**Date & Time – 18<sup>th</sup> September 2021. Saturday at 11 AM to 2:00 PM**

**There is no registration fee for the participants. E-certificate will be provided to the participants.**

**Registration Link: <https://forms.gle/mtg1mGahKaxC1a728>**

**CHIEF PATRON**

**Prof. Alok Kumar Chakrawal**  
**Vice Chancellor**  
GGV, Bilaspur (C.G.)

**PATRON**

**Prof. T. V. Arjunan**  
**Dean, SoS(E&T)**  
GGV, Bilaspur (C.G.)

**RESEARCH CO-ORDINATOR**

**Dr. Jasinta Poonam Ekka**

**CO-ORDINATOR**

**Dr. Princy Mitlani**  
**Mr. Amit Kumar Dewangan**

**ORGANIZING COMMITTEE**

**Dr. Kundan Meshram**  
**Dr. Anoop Sahu**  
**Dr. Anil Kumar Soni**  
**Dr. Ghoshna Jyoti**  
**Mrs. Disha Dewangan**



### CHIEF-PATRON

Prof. Anjila Gupta, Vice Chancellor,  
GGV

### PATRON

Prof Shailendra Kumar, Registrar,  
GGV

### CONVENER

Prof T.V. Arjunan, Dean (SoS  
(E&T)), GGV

### ORGANIZING SECRETARY

Dr. Jasinta Poonam Ekka

### COORDINATORS

Mr. Amit Kumar Dewangan

Dr. Kundan Meshram

Mrs. Disha Dewangan

### COMMITTEE MEMBERS

Dr. Ghoshna Jyoti

Dr. Anil Kumar Soni

Dr. Anoop Kumar Sahu

Dr. Princy Matlani

## ONE DAY NATIONAL WORKSHOP ON INTELLECTUAL PROPERTY RIGHTS



Organized by  
**RESEARCH  
&  
DEVELOPMENT  
COMMITTEE,  
SCHOOL OF STUDIES IN  
ENGINEERING &  
TECHNOLOGY**  
**GURU GHASIDAS  
VISHWAVIDYALAYA**  
(A CENTRAL UNIVERSITY),  
BILASPUR

**Date : 28th November 2020**

### ABOUT GGV BILASPUR

Guru Ghasidas Vishwavidyalaya, is a Central University of India, located in Bilaspur C.G. State, established under Central Universities Act 2009, No. 25 of 2009. Formerly called Guru Ghasidas University (GGU), established by an Act of the State Legislative Assembly, was formally inaugurated on June 16, 1983. GGU is an active member of the Association of Indian Universities and Association of Commonwealth Universities. Situated in a socially and economically challenged area, the university is appropriately named to honor the great Satnami Saint Guru Ghasidas (born in 17th century), who championed the cause of the downtrodden and waged a relentless struggle against all forms of social evils and injustice prevailing in the society. The campus is lush green, calm and quiet and free from urban noise and pollution, an ideal temple for education and research.

## ABOUT IPR

"Intellectual Property Rights" refers to the legal rights granted with the aim to protect the creations of the intellect. These rights include Industrial Property Rights (e.g. patents, industrial designs and trademarks) and Copyright (right of the author or creator) and Related Rights (rights of the performers, producers and broadcasting organisations).

## WHO CAN PARTICIPATE

UG & PG Students, Research Scholars, Faculty Members and Industry Experts.

## RESOURCE PERSONS

**Mr. Rajat Malhotra**, Principal Consultant, Idea 2 IPR, New Delhi.

**Dr. Rohit Raja**, Associate Professor and Head, Department of Information Technology, GGV, Bilaspur (C.G.)

## THEME OF THE WORKSHOP

1. Patent Drafting.
2. Process of Patent Filling.
3. Technology Transfer for Patenting.

## SCHEDULE OF THE WORKSHOP

**DATE : 28<sup>th</sup> November 2020**

## REGISTRATION PROCESS

1. **No registration fee** and **E-certificate** will be provided to participants.
- 2 Registrations can be done by online using link: <https://forms.gle/T9uAutVjdGrmtK2u9>
3. Last date of registration is **27th November 2020**.
4. Joining link for the online session will be shared to the registered participant on their **Email** or **Whatsapp** group.
5. Online session will be conducted through **Microsoft team**.

## CONTACT PERSONS

Mr. Amit Kumar Dewangan  
Email- [amit.nitr@gmail.com](mailto:amit.nitr@gmail.com)  
Dr. Kundan Meshram  
Email- [kundan.transpo@gmail.com](mailto:kundan.transpo@gmail.com)  
Mrs. Disha Dewangan  
Email- [dewangan.disha@gmail.com](mailto:dewangan.disha@gmail.com)





क./HRDC/2020-21/57

बिलासपुर दिनांक 10/8/2020

कार्यालयीय ज्ञाप

वर्ष 2020-21 के लिए यू.जी.सी. द्वारा आवंटित **Refresher Course on Summer/Winter School on Novel Insights in Life Sciences Research - (Inter/Multi-Disciplinary Refresher Course)** को आयोजित कराने के लिए माननीय कुलपति महोदया के अनुमोदनोपरांत आपको कोर्स कोआर्डिनेटर नामांकित जाता है। उक्त कोर्स यू.जी.सी. के निर्देशानुसार **ऑनलाईन मोड (Online Mode)** में आयोजित किया जाना है। तत्संबंध में उक्त प्रशिक्षण कार्यक्रम की समय सारणी यू.जी.सी.-एच.आर.डी.सी. की वेबसाईट पर अपलोड कर दी गई है।

**REFRESHER COURSE**

S.No.	Subject	Duration/Period	Discipline	Course Coordinator
1.	<b>Refresher Course on Summer/Winter School on Novel Insights in Life Sciences Research</b>  (Inter/Multi-Disciplinary Refresher Course)	15/02/2021 to 27/02/2021	Life Science (Zoology, Botany, Biotechnology, Microbiology)	Prof. L V K S Bhaskar (M) 8224979600

अतः रिफ्रेसर कोर्स से संबंधित Curriculum, Brochure तथा रिसोर्स पर्सन्स की सूची आदि को दिनांक 20.08.2020 तक एच.आर.डी.सी. को अनिवार्यतः साफ्ट एवं हार्ड कापी में उपलब्ध करावें ताकि प्रशिक्षणार्थियों के सुलभ संदर्भ हेतु विश्वविद्यालय की वेबसाईट पर अपलोड कराया जा सके। तथा जिसे देखकर अधिक से अधिक प्रशिक्षणार्थी आवेदन कर सकें (Brochure का प्रारूप संलग्न है)। कृपया अविलंब उपरोक्त जानकारी उपलब्ध करावें ताकि रिसोर्स पर्सन्स की सूची का सक्षम अनुमोदन प्राप्त किया जा सके। कृपया इसे प्राथमिकता दें।

संलग्न:- उपरोक्तानुसार

निदेशक (प्रभारी)

पृ. क./HRDC/2020-21/58

बिलासपुर दिनांक 10/8/2020

प्रतिलिपि:-

1. कुलपति/कुलसचिव के सचिव/निज सहायक की ओर माननीय कुलपति/कुलसचिव जी के सूचनार्थ।
2. वित्ताधिकारी/आंतरिक अंकेक्षण अधिकारी/ सहायक कुलसचिव (वित्त) गु.घा.वि.वि. की ओर सूचनार्थ।
3. Prof. LVKS Bhaskar, Professor & Head, Dept. of Zoology, GGV, Bilaspur (C.G.) की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
4. प्रभारी, वेब पटल की ओर सूचनार्थ एवं निवेदन है कि उपरोक्त आदेश को एच.आर.डी.सी. के वेबपेज में अपलोड कराने का कष्ट करें।

सहायक निदेशक (प्रभारी)

यू.जी.सी.-मानव संसाधन विकास केन्द्र  
गुरु घासीदास विश्वविद्यालय

(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)

कोनी, बिलासपुर - 495 009 (छ.ग.)

दूरभाष : 07752-260435, 260467, 260440, फैक्स : 07752-260435, मो.: 09826200372

ई-मेल : directorhrdc@ggu.ac.in, directorhrdcggy@gmail.com

वेबसाइट : www.ggu.ac.in/hrdc



UGC-Human Resource Development Centre  
Guru Ghasidas Vishwavidyalaya

(A Central University Established under the Central University Act, 2009 No. 25 of 2009)

Koni, Bilaspur-495 009 (C.G.)

Ph.: 07752-260435, 260467, 260440, Fax: 07752-260435, Mo.: 09826200372

E-mail: directorhrdc@ggu.ac.in, directorhrdcggy@gmail.com

Website : www.ggu.ac.in/hrdc

डॉ. रत्नेश सिंह  
Dr. Ratnesh Singh  
निदेशक  
Director

क्रमांक / No.: ..... 35 .....

दिनांक / Date.: 9/4/21

## TO WHOMSOEVER IT MAY CONCERN

*Prof. LVKS Bhaskar, Professor & Head, Dept. of Zoology, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) has conducted a Refresher Course : Winter School on Novel Insights in Life Sciences Research (Inter Disciplinary) from 15/02/2021 to 27/02/2021 as a Coordinator, approved by UGC during 2020-21 at UGC-Human Resource Development Centre of Guru Ghasidas Vishwavidyalaya.*

**Dr. Ratnesh Singh**

**Director**

UGC - Human Resource Development Centre  
Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)



यू.जी.सी.-मानव संसाधन विकास केन्द्र  
गुरु घासीदास विश्वविद्यालय

(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)

कोनी, बिलासपुर - 495 009 (छ.ग.)

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डॉ. रत्नेश सिंह  
Dr. Ratnesh Singh  
निदेशक  
Director

क्रमांक / No.: .....10.....

दिनांक / Date.: 21/11/21.....

**TO WHOMSOEVER IT MAY CONCERN**

Prof. G. K. Patra, Professor, Department of Chemistry, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) has conducted a Refresher Course in Chemistry (Subject Specific) from 23/08/2021 to 04/09/2021 as a Coordinator, approved by UGC during 2021-22 at UGC-Human Resource Development Centre of Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).

**Dr. Ratnesh Singh**  
Director

UGC - Human Resource Development Centre  
Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)



**REPORT**

# **DATA SCIENCE**

**Date: 12-10-2020 to 16-10-2020,  
Department of Computer Science & Engineering,  
SoS (E&T), Guru Ghasidas Vishwavidyalaya  
(A Central University), Bilaspur, C.G., India**

**AICTE TRAINING AND LEARNING ACADEMY, PUNE**

## One-Week Faculty Development Program On Data Sciences

Data Science 5-Days AICTE sponsored workshop was conducted from 12<sup>th</sup> to 16<sup>th</sup> October 2020 in which around 110 participants from different parts of the country participated.

The speakers for the 5-day workshop on “DATA SCIENCE” were:


Dr.Ashish Khare	
	<p><b>Designation: Associate Professor, Computer Science at University of Allahabad</b></p> <p>Ashish Khare is working as an Associate Professor in Computer Science at University of Allahabad, India. His area of expertise is Image Processing, Computer vision, Machine Learning, and wavelet based applications. He is actively working in area of Machine Vision, Image and Video analysis from last 20 years. He did his PhD in area of Medical Imaging. He did his post-doctoral research from Gwangju Institute of Science and Technology, Korea. He has successfully supervised 08 Ph.D. students in area of Machine Vision. He has carried two research projects on development of surveillance systems. Currently he is PI of one collaborative (India-Heidelberg University) RTG-Big Data project, in which he is dealing with early detection of neuro degenerative diseases and Human action recognition &amp; behavior understanding. He has published more than 125 papers in SCI/Scopus indexed journals and Conference proceedings. He has more than 20 years' of experience in post-graduate teaching, course development and research in the subjects related to Machine Vision and Machine Learning. He has served Secretary of IETE Allahabad center.</p>
Dr.Manish Khare	
	<p><b>Designation: Professor Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar</b></p> <p>Manish Khare is affiliated with Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat, India as Assistant Professor. Dr. Manish has more than 6 years teaching and research experience. He received his D.Phil. degree in Computer Science from University of Allahabad, India in 2015. He received M. Tech. degree in Computer Science and Engineering from CDAC, Noida, India, in year 2009, and M. Sc. in Computer Science from University of Allahabad, India in year 2006. As a Post-Doctoral Fellow, he worked in Department of Electrical Engineering and Computer</p>

	<p>Science, Gwangju Institute of Science and Technology, Gwangju, Republic of Korea in 2016-2017. Dr. Manish has authored and co-authored more than 70 papers in Reputed Journals, National and International Conferences. Dr. Manish also working as active reviewers for reputed professional Journals and Conferences. Dr. Manish is having an active association with different societies and academies around the world. He made his mark in the scientific community with the contributions and widely recognition from honourable subject experts around the world. Dr. Manish has received several awards for the contributions to the scientific community. Dr. Manish is active member of IEEE, Computer Society of India, ACM. His Research interests include Image and Video Processing, Computer Vision, Machine Learning, and applications of wavelet Transforms</p>
<b>Dr.Om Prakash</b>	
	<p><b>Designation: Assistant Professor Hemvati Nandan Bahuguna Garhwal University (HNBGU), Srinagar (Garhwal)</b></p> <p>Dr Om Prakash received PhD (Computer Science) degrees from University of Allahabad, India 2014 respectively. He has worked in academics and industry as faculty and research scientist. From 2015 to 2016, he worked as a postdoctoral researcher in Gwangju Institute of Science and Technology, Gwangju, South Korea. Currently, he is working as Assistant Professor in Hemvati Nandan Bahuguna Garhwal University (HNBGU), Srinagar (Garhwal), India. He has published over 40 papers in International journals and conference proceedings. His research interests include image and video processing, computer vision, wavelet transforms and multisensory data fusion, Machine Learning, Thermography, Medical Image Processing.</p>
<b>Dr.Shailendra Kr Sharma</b>	
	<p><b>Designation: Associate Professor Dept. Of History, KKPG College, Etawah</b></p> <p>Dr. Shailendra Kumar Sharma is a certified life coach, meditation expert, motivational speaker and a seasoned academician. He comes with a rich experience of about two decades in counselling, meditation and higher education teaching.</p> <p>He is working as Associate Professor &amp; Head, Dept. Of History, KKPG College, Etawah. He is Certified Law of Attraction &amp; life coach from mind , body soul law of attraction school. He has published many research papers, 3 books and is the editor in chief of one international research journal.</p> <p>He has delivered several invited talks, meditation and counselling sessions at various forums, nationally and internationally. For his contribution, he has received many accolades and awards.</p>
<b>Dr.Vibhav Prakash Singh</b>	
	<p><b>Designation: Assistant Professor MNNIT Allahabad</b></p> <p>Dr. Vibhav Prakash Singh is currently working as Assistant Professor in the Department of Computer Science and Engineering at MNNIT Allahabad. He has earned his Ph.D. in Computer Science and Engineering from BHU Varanasi (India), M. Tech. (CSE) from IIT Gwalior (India) and B.Tech (IT) from UPTU, Lucknow (India). He has approx. 11 years of experiences in teaching/research of UG (B. Tech.) and PG level courses as a Lecturer/Assistant Professor in various academic /research organizations. He is an active reviewer and board member of various International Journals and Conferences. He has contributed more than 40 research papers in International Journals, and Conferences. His working research areas are Image Processing, Computer Vision, and Data Mining.</p>
<b>Dr. Kapil Tomar</b>	



	<p><b>Designation: Professor IIT Delhi</b></p> <p>He spent more than a decade in industry and academia before joining IIT Delhi as Doctoral Research Fellow. He did his Bachelors and Masters in Computer Science Engineering.</p> <p>He worked with HCL, Noida at various positions and received recognitions for adding value to the clients. He worked with many other companies and academic institutions in past, he is currently working with Prof VM Chariar at IIT Delhi at CRDT- a place which is known for its innovations and producing unicorn startups for nation building. Mr Tomar is working to provide sustainable solutions for rural development with the amalgamation of technology. He is volunteer for Unnat Bharat Abhiyaan- an project originated from IITD and now proliferated across India.</p> <p>He had organized 2 national conferences and 3 Faculty Enablement Program (FEP) with Infosys Chandigarh.</p> <p>His areas of interest include Algorithms, Data Science, and Sustainable Development for Rural communities.</p> <p>He has published various research papers, and articles with reputed publishers. He enjoys exploring new places, reading and networking with people</p>
<b>Korra Sathya Babu</b>	
	<p><b>Designation: Assistant Professor NIT Rourkela</b></p> <p>Dr. Korra Sathya Babu is working as a Assistant professor in Department of Computer Science and Engineering National Institute of Technology Rourkela. He completed his MTech and PhD from NIT Rourkela. He is working as a Assistant professor in NIT Rourkela since 2008. He is having more than 50 research paper in peer reviewed journal and conferences. He is coordinator of the Data Science specialization for MTech in NIT Rourkela. He has supervised 3 PhD scholar and currently supervising 9 PhD scholar in NIT Rourkela. His area of interest is Data Science, Natural Language Processing and Data Privacy.</p>
<b>Mr.Chandramani Sharma</b>	
	<p><b>Designation: Professor Department of Informatics, University of Petroleum &amp; Energy Studies, Uttarakhnad</b></p> <p>He is having more than a decade of experience in teaching and indstry. He did is Masters in Computer Science from DAVV Indore and got into the doctoral bangdwagon at Indian Institute of Technology, Delhi.</p> <p>He started his career as J2EE developer with Syscom India. Having associated with a couple of pretigious organizations in past, he is currently working in Department of Informatics, University of Petroleum &amp; Energy Studies, Uttarakhnad. He has mentored many successful startups and has served as one of the founding Directors for CDD Global Solutions. He has convened 3 successful international Hackathons with academia and industry collaborators such as IBM, STPI, Cardiff University, Intel etc.</p> <p>His areas of interest include Data Analytics, Machine Learning, Rural Development, Entepreneurship and Sustainable Design.</p> <p>He has published research papers, books and articles with reputed publishers. He enjoys reading, writing and networking with people.</p>
<b>Mr.Neeraj Varshney</b>	

# ATAL workshop on Data Sciences

	<p><b>Designation: Assistant Professor Computer Engineering and Applications Department of GLAITM</b></p> <p>Dr. Neeraj Varshney is presently working as an Assistant Professor in the Computer Engineering and Applications Department of GLAITM. He has vast experience in the field of Teaching and Research. He has published more than 20 research papers in reputed International and National Journals. His areas of research include computer vision, time series data analysis, machine learning and deep learning</p>
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The schedule of the workshop was as below-

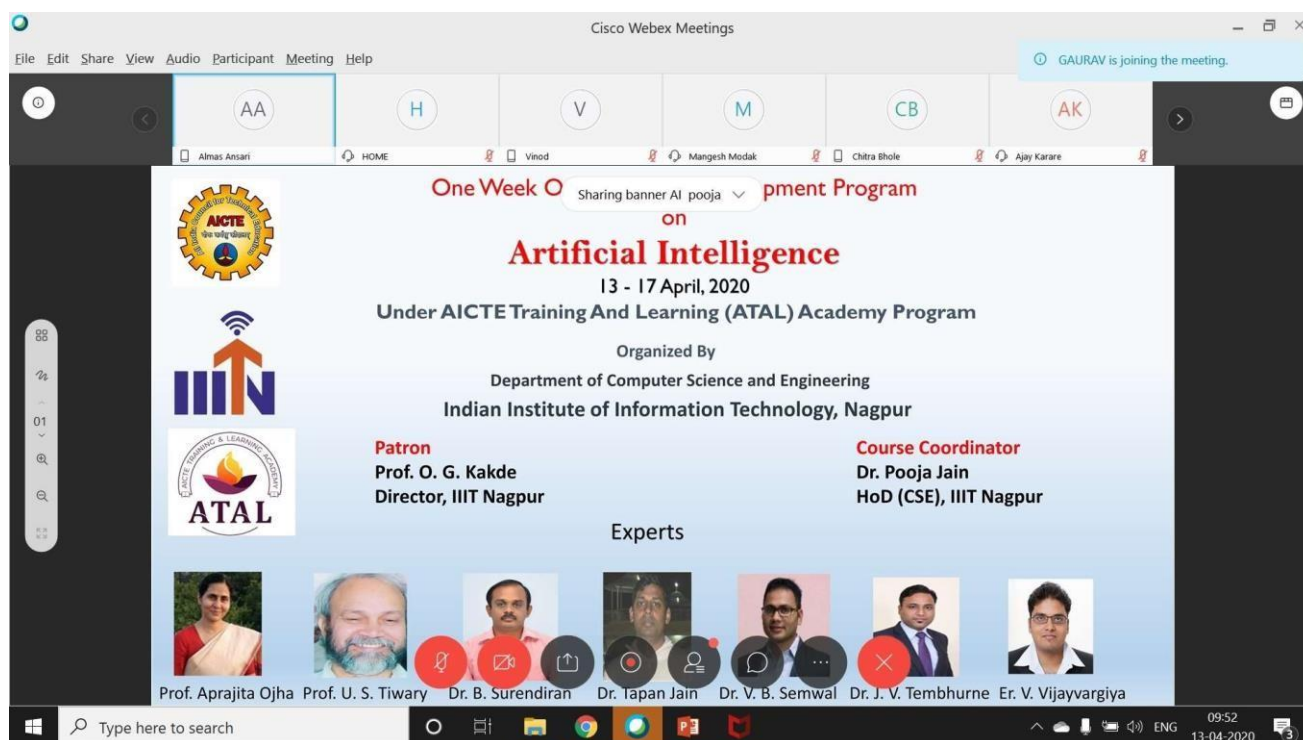
Event Schedule					
Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM
12.10.2020 (Monday)	Registration and Inaugural Session	<i>Break</i>	Session 1 Overview of Data Science	<i>Break</i>	Session 2 Getting started with Python for DS
	Session 3		Session 4		Session 5
13.10.2020 (Tuesday)	Pandas and Numpy for Data Preprocessing	<i>Break</i>	Data Visualization with Matplotlib	<i>Break</i>	Introduction to Seaborn
	Session 6		Session 7		Session 8
14.10.2020 (Wednesday)	Machine Learning and Its Types	<i>Break</i>	ML Regression and Classification Hands-on	<i>Break</i>	K-Fold Validation and Performance Metrics
	Session 9		Session 10		Session 11
15.10.2020 (Thursday)	Text processing and various representations	<i>Break</i>	Using NLTK for Text Analytics	<i>Break</i>	Introduction to Deep Learning
	Session 12		Session 13		Session 14
16.10.2020 (Friday)	Keras and Tensorflow in Practice	<i>Break</i>	CNN and Image Classification	<i>Break</i>	Health and Happiness Assessment and Validation Session (04:30 onwards)

# ATAL workshop on Data Sciences

The inauguration was held on 12th October 2020 online at 10:00 am. Chief Guest of the program was Prof. Anil Sahasrabudhe (Chairman, AICTE), Guest of Honour of the function were Prof. Rajive Kumar (Member Secretary, AICTE) and Prof. O. G. Kakde (Director, IIIT Nagpur). Prof Ravindra Kumar Soni (Director ATAL) and Coordinator chaired the function. Also, Directors of different academies, and AICTE official were also present with the participants.

Director ATAL, Prof. Ravindra Soni addressed the participants about online FDP and various initiatives by ATAL Academy. Prof Kakde talked about IIIT Roles and Responsibility in technical education. Prof. Poonia Sir, discussed about various AICTE initiatives. In the addresses of Chairman Sir, he talked about various initiatives in pandemic times by AICTE. Dr. Pooja Jain, Coordinator proposed the Vote of Thanks.

Some screenshots of the inaugural function are as below.



# ATAL workshop on Data Sciences

**One Week Online Faculty Development Program**  
on  
**Artificial Intelligence**  
13 - 17 April, 2020  
Under AICTE Training And Learning (ATAL) Academy Program

Organized By  
Department of Computer Science and Engineering  
Indian Institute of Information Technology, Nagpur

**Patron**  
Prof. O. G. Kakde  
Director, IIIT Nagpur

**Course Coordinator**  
Dr. Pooja Jain  
HoD (CSE), IIIT Nagpur

**Experts**

Prof. Aprajita Ojha Prof. U. S. Tiwary Dr. B. Surendiran Dr. Tapan Jain Dr. V. B. Semwal Dr. J. V. Tembhurne Er. V. Vijayvargiya

The list of participants was:-

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# ATAL workshop on Data Sciences

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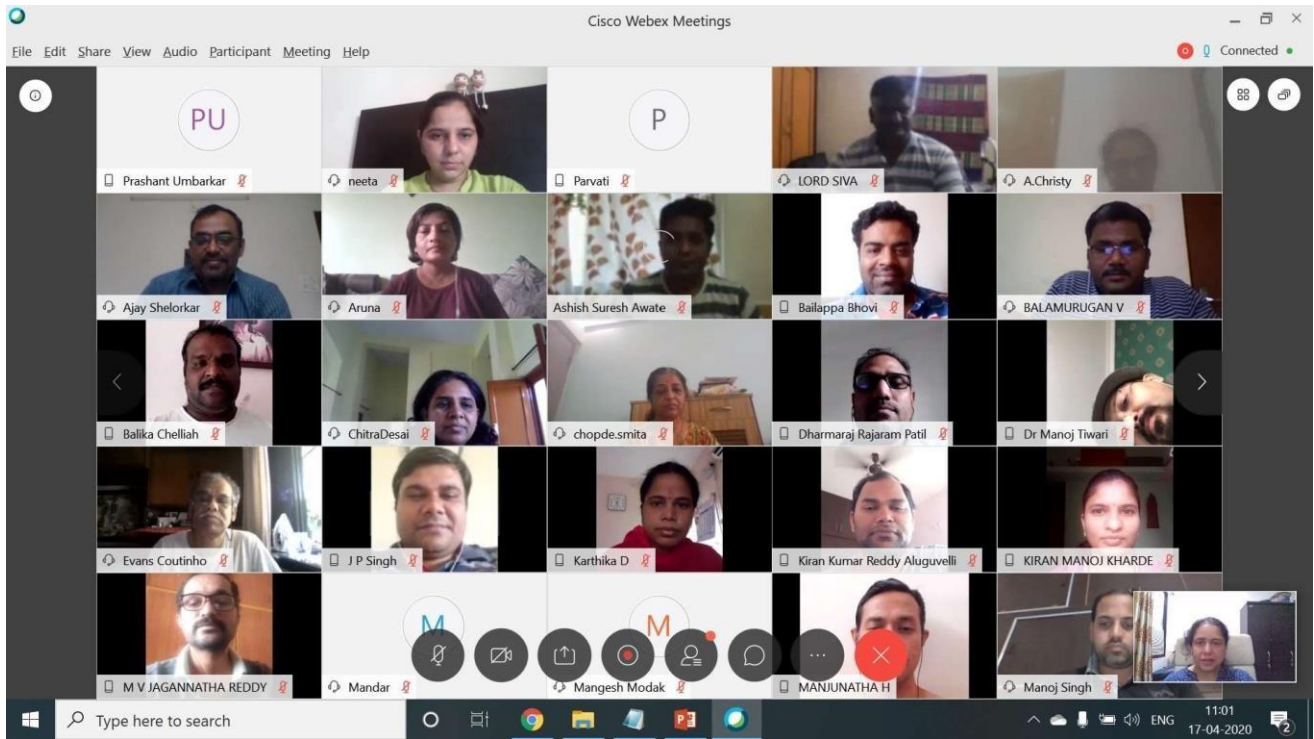
# ATAL workshop on Data Sciences

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108	Mr. ANISH DEB	Asansol Engineering College	9883501453	anishdebaec@gmail.com
109	Mrs. Honey Devassy	FEderal Institute of science and Technology	9495843545	honeydevassy@gmail.com
110	Mr. Abhishek S. Rao	NMAM Institute of Technology	9663167943	abhishekr Rao@nitte.edu.in

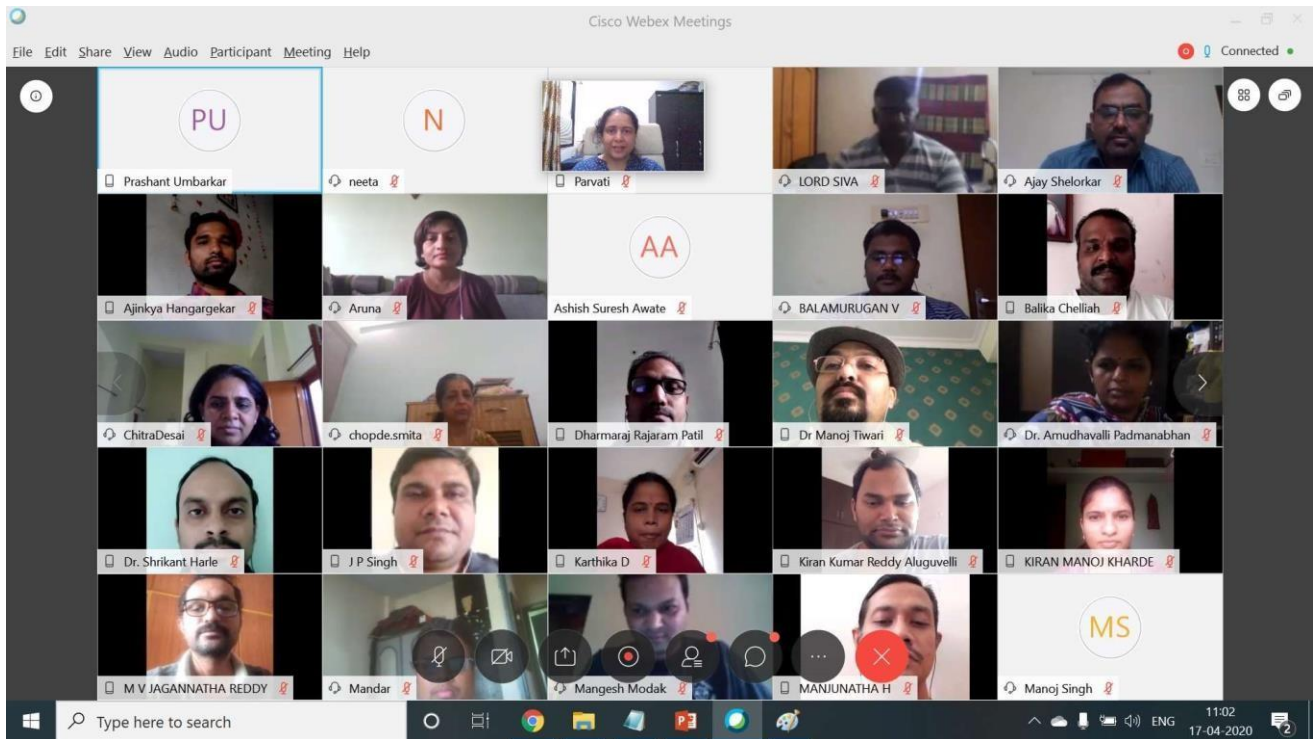


# ATAL workshop on Data Sciences

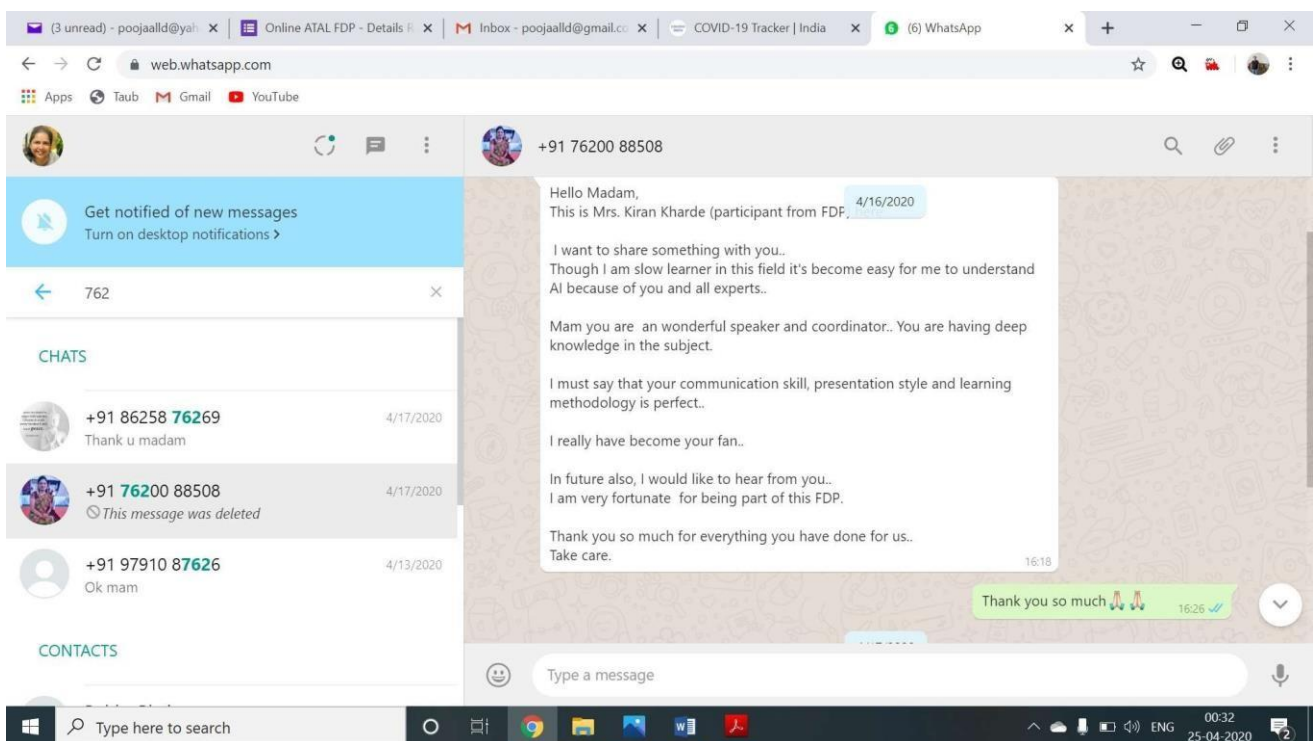
The screenshots of the participants taken on the closing are:-



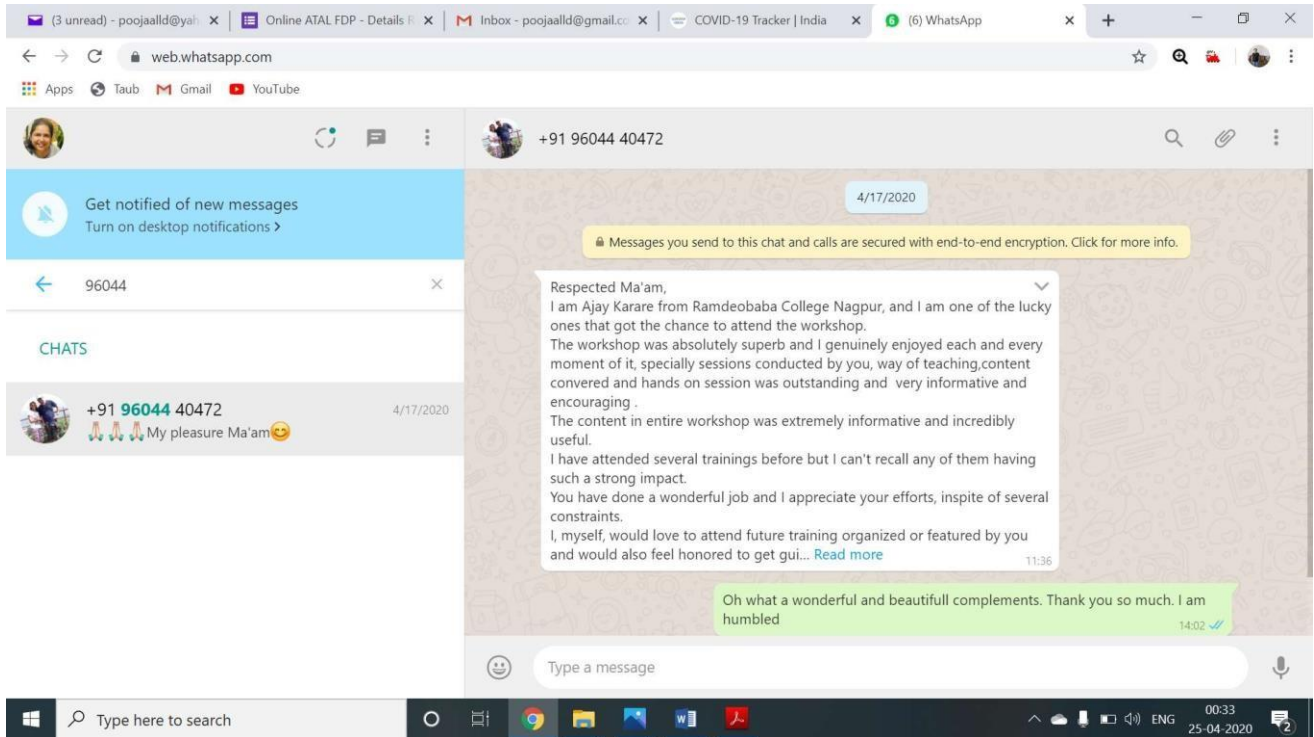
# ATAL workshop on Data Sciences



Some of the feedback received for the workshop are as below



# ATAL workshop on Data Sciences



It was a great Initiative by ATAL Academy. I am thankful to AICTE for giving me this opportunity to conduct online FDP for faculty members of technical institute of India free of cost. I got huge response for registration as well as lots of compliment of arranging the online workshop, content and hands on.

# One-Week Faculty Development Program On Deep Learning and Machine Learning Applications in Computer Vision

Under the banner of  
**Electronics and ICT Academy at National Institute of Technology, Patna**  
and  
Coordinated by  
**Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur**  
&  
**National Institute of Technology, Patna**  
**22<sup>nd</sup> August to 28<sup>th</sup> August, 2020**



## Chief-Patron

**Prof. Anjila Gupta**  
Vice Chancellor, GGV, Bilaspur

**Prof. P.K. Jain**  
Director, NIT, Patna

## Patron

**Prof. T.V. Arjunan**  
Dean (SoS (E&T)), GGV, Bilaspur

## Coordinators

**Dr. Mukesh Kumar, NIT Patna**

**Dr. Alok Kumar Singh, GGV, Bilaspur**

## Co-coordinators

**Dr. Manish Shrivastava, GGV, Bilaspur**

## Organized by

Department of Computer Science & Engineering, SoS (E&T), Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, C.G., India

&

Electronics and ICT Academy, National Institute of Technology Patna, India.

## Supported by

**Ministry of Electronics and Information Technology, MeitY, Govt. of India.**

## About GGV Bilaspur

Guru Ghasidas Vishwavidyalaya, is a Central University of India, located in Bilaspur C.G. State, established under Central Universities Act 2009, No. 25 of 2009. Formerly called Guru Ghasidas University (GGU), established by an Act of the State Legislative Assembly, was formally inaugurated on June 16, 1983. GGU is an active member of the Association of Indian Universities and Association of Commonwealth Universities. Situated in a socially and economically challenged area, the university is appropriately named to honor the great Satnami Saint Guru Ghasidas (born in 17th century), who championed the cause of the downtrodden and waged a relentless struggle against all forms of social evils and injustice prevailing in the society. The University is a residential cum affiliating institution, having its jurisdiction spread over Bilaspur Revenue Division of the state of Chhattisgarh.

## About NIT Patna

National Institute of Technology, Patna is the 18<sup>th</sup> National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28.01.2004. The Institute is situated on the south bank of holy river Ganges behind Gandhi Ghat (where the ash of father of the Nation, Mahatma Gandhi was offered in the river Ganges). The Institute imparts high level education training, research and development in science, engineering technology and humanities along with high quality education and values at UG, PG and Ph.D. level. At present, the Institute offers courses in six major technical disciplines viz. Architecture, Civil Engineering, Computer Science & Engg., Electrical Engg., Electronics & Communication Engg. and Mechanical

Engg. It also consists of well-established departments of Physics, Chemistry, Mathematics and Humanities and Social Sciences.

## Electronics and ICT Academy

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies of which, the academy of NIT Patna is one. The Academy at NIT Patna aims to design and organize basic as well as specialized training programmes in niche areas of electronics and ICT for the development of required knowledge base, skills and tools to equip the teaching community with better knowledge and understanding.

## Objective of the Program

Deep learning is a subset of machine learning in artificial intelligence (AI) that has networks capable of learning unsupervised/supervised from data that is unstructured or unlabelled. It imitates the workings of the human brain in processing data and creating patterns for use in decision making. Deep learning is achieving state-of-the-art results across a range of difficult problem domains like self-driving cars, Healthcare, computer vision, Automatic Machine Translation, and Finance, etc.

- The proposed FDP provides an opportunity to discuss and address the experimental, theoretical work and methods in solving problems.
- How Machine Learning and Deep Learning Works
- How to apply Machine Learning and Deep Learning Tools and Techniques to solve the problems
- Exchange and cross-fertilize their ideas, in the fields of Deep Learning and Machine Learning.
- Working in soft computing, machine learning, deep learning and artificial intelligence.
- Hands on training on Machine Learning and Deep Learning tools and techniques are to be applied for different application



## Topics to be covered

- Overview of Machine Learning Techniques
- Supervised Vs Unsupervised Learning
- Linear Regression, Decision Trees, KNN, Random Forests
- Bayesian Networks, SVM
- Clustering :K Means, C-Means, Agglomerative Clustering
- Machine Learning Application in Computer Vision (Example: Video Surveillance and Medical Imaging)
- Introduction to Deep Learning, Neuron, Threshold Logic, Perceptron Learning Algorithms
- Deep Learning, CNN, 3D-CNN, Googlenet and RNN
- Convolution Neural Network with Medical Image database
- Medical image analysis using Deep Learning in MATLAB /Python
- Object Tracking and Multi-view activity recognition using Deep Learning in MATLAB /Python
- Deep Learning applications in Text Classifications using MATLAB /Python
- Hands-on Session using Python (sklearn, Tensorflow, Keras etc) / MATLAB.

## Resource Persons

Internationally acclaimed faculty members from premier institutions like IIT, NIT and Central Universities.

## One-week FDP includes

One week Training will be taken by one Industrial Expert with the experience of 6-8 years in the industry and has delivered more than 1000+ sessions in India and abroad. The training hour is 5-6 hours/ each day. Mode of training is Instructor-led live online

- 40 Hours Instructor-led live online Hands-on based learning & Interactive Query Session.
- Soft copy of study material, Training PPT's & Projects code
- Participants will get recorded sessions after completion of training.

## Who Can Participate

Faculty members of UGC/AICTE recognized Universities and Engineering colleges all over India, Research scholars (PhD only), students and Industry personals, however priority will be given to the faculty members.

## Registration Fee

- **Faculty/ Research Scholar (PhD): Rs. 500/**
- **Students: Rs. 500/-,**
- **Industry and others: Rs. 1000/-**

## Registration Process

1. Registration fee will be paid through online mode, the account details for this purpose is

**Account Name: NIT Patna**  
**Account No.: 50380476798**  
**IFSC Code: ALLA0212286**

2. Link for registration:  
<https://tinyurl.com/yyrnsv8g>
3. The brochure of the program may be downloaded from the Institute website  
<http://www.nitp.ac.in/ict/>
4. Only Online registration will be accepted and Last date of registration: 21.08.2020 (till 14.00 PM)
5. Before making the (online) payment, please check the availability of link for Registration and after making the payment; complete the registration process as soon as possible.

**Total -100 seats and the selection will be done on first-cum-first-serve basis.** PDF file of online filled registration form with proof of registration fee paid will be sent through email to **Dr. Alok Kumar Singh (E-mail: [ggvfdp@gmail.com](mailto:ggvfdp@gmail.com))**

## Faculty Development Program

on

## Deep Learning and Machine Learning Applications in Computer Vision

22<sup>nd</sup> to 28<sup>th</sup>, August, 2020

## REGISTRATION FORM

1. Name (block letter): .....
2. Gender: .....
3. Caste:.....
4. DOB:.....
5. Designation .....
6. Organization: .....
7. Address for communication: .....
- .....
- .....
- Pin code: ..... Ph. No.: .....
- E-mail: .....
8. Highest Academic Qualification: .....
9. Specialization: .....
10. Experience (in years):  
(a) Teaching: ..... (b) Industrial: .....
11. Aadhar No:.....

## DECLARATION

I do hereby agree to abide by the rules and regulations of the FDP.

Place: .....

Date:.....

.....  
Signature of the Applicant

**Expected Schedule:** Plan for each day

	10:00 AM to 12:00 PM	12:00 PM to 01:00 PM	01:00 PM to 02:00 PM	02:00 PM to 05:00 PM
22-08-2020	Overview of Machine Learning Techniques, Supervised Vs Unsupervised Learning	Regression- Linear regression, Polynomial regression, Linear Regression	<b>L U N C H</b>	LAB EXPERIMENT (Introduction to Google Colab and ML using Python)
(Saturday)	(Dr. Ashish Khare)	(Dr. Ashish Khare)		(Dr. Chandramani Sharma)
23-08-2020	Decision Trees, KNN	Principal Component Analysis (PCA),		LAB EXPERIMENT (Decision Trees, KNN and Other Classifiers, K-Fold Validation, Performance Metrics)
(Sunday)	(Dr. Ashish Khare)	(Dr. Ashish Khare)		(Dr. Chandramani Sharma)
24-08-2020	Bayesian Networks, SVM	Clustering: K Means		LAB EXPERIMENT (Bayesian Networks, SVM)
(Monday)	(Prof. Rajeev Srivastava)	(Prof. Rajeev Srivastava)		(Mr. Rajat Khurana)
25-08-2020	AIML Applications in Rural Development and Agriculture	Threshold Logic, Perceptron Learning Algorithms		LAB EXPERIMENT (Clustering :K Means )
(Tuesday)	(Mr. Kapil Tomar)	(Dr. Om Prakash)		(Dr. Chandramani Sharma)
26-08-2020	Machine Learning Application in Computer Vision (Example: Video Surveillance and Medical Imaging)	Image and Video Segmentation and Classification		LAB EXPERIMENT (Tensorflow 2.0 and Keras DL, Layers, Optimizers, Losses, Compile and Fit the Models)
(Wednesday)	(Dr. Ashish Khare)	(Mr. Rajat Khurana)		(Dr. Chandramani Sharma)
27-08-2020	Deep Learning, CNN	Convolution Neural Network with Medical Image database		Some Interesting Use Cases for Deep Learning
(Thursday)	(Mr. Neeraj Varshney)	(Dr. Abhishek Singh)		(Dr. Vibhav Singh)
28-08-2020	Object Tracking and Multi-view activity recognition for Intelligent Video Surveillance	LAB EXPERIMENT (Human Object Tracking and Activity recognition using DL in Python)		RNN, LSTM,,
(Friday)	(Dr. Manish Khare)	(Mr. Rajat Khurana)		(Dr. Chandramani Sharma)
<b>Total Hour</b>	14	7	1	18

Total Theory Hours: 24 Hours  
 Total Practical: 16 Hours  
**Total FDP Hours: 40 Hours**



# One-Week Faculty Development Program On

## Data Sciences

### (Emerging Frontiers of Data Science and Machine Learning)

Under the banner of

**AICTE Training & Learning (ATAL)  
Academy**

**Supported by  
AICTE, New Delhi.**

**12<sup>th</sup> October to 16<sup>th</sup> October, 2020**



### Chief-Patron

**Prof. Anjila Gupta**  
Vice Chancellor, GGV, Bilaspur

### Patron

**Prof. T.V. Arjunan**  
Dean (SoS (E&T)), GGV, Bilaspur

### Coordinators

**Dr. Alok Kumar Singh, GGV, Bilaspur**

### Co-coordinators

**Dr. Manish Shrivastava, GGV, Bilaspur**

## Organized by

**Department of Computer Science &  
Engineering, SoS (E&T), Guru Ghasidas  
Vishwavidyalaya (A Central University),  
Bilaspur, C.G., India**

## About AICTE ATAL Programme

AICTE Training and Learning (ATAL) Programme is an initiative by AICTE, which aims at empowering faculty to achieve goals of Higher Education such as access, equity and quality. This programme is, designed to fulfil the need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. It was felt that Training with latest tools and technologies is vital to keeping an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. It also transforms them to harmonize with society and most importantly to make them a good citizen of the country.

## About GGV Bilaspur

Guru Ghasidas Vishwavidyalaya, is a Central University of India, located in Bilaspur C.G. State, established under Central Universities Act 2009, No. 25 of 2009. Formerly called Guru Ghasidas University (GGU), established by an Act of the State Legislative Assembly, was formally inaugurated on June 16, 1983. GGU is an active member of the Association of Indian Universities and Association of Commonwealth Universities. Situated in a socially and economically challenged area, the university is appropriately named to honor the great Satnami Saint Guru Ghasidas (born in 17th century), who championed the cause of the

Downtrodden and waged a relentless struggle against all forms of social evils and injustice prevailing in the society. The University is a residential cum affiliating institution, having its jurisdiction spread over Bilaspur Revenue Division of the state of Chhattisgarh.

## About Department

The Department of Computer Science & Engineering was established in 1997. The department is committed to provide quality higher education on the field of Computer Science & Engineering With the understanding, knowledge and practical competence to participate in a long revolution. The knowledge will enable you to understand and foresee the great changes and challenges that Computer Science presents to the world, now and in the future. Besides teaching, there is also doubt removal session. The department has specialized laboratories such as NETWORKING LAB, ADVANCE PROGRAMING LAB, DATA BASE & UNIX LAB, PROJECT LAB. The department provides opportunities for carrying project by students under joint supervision of the faculty and experts from industry. The department has involved in providing training in reputed government and public sectors like DRDO Delhi, Microsoft Hyderabad, CMC Kolkata, Orbit IT Hyderabad, S.E.C.L., B.S.N.L., Indian Railways, Bokaro Steel Plant & Bhilai Steel Plant (SAIL), Software Tech & ISM Bangalore. Our students are working in reputed private, public and govt. organizations. Some of them are Infosys, Wipro, Persistent, IBM, TCS, Mahindra BT, Syntel, Satyam, BSNL, NTPC, INFLIBNET.

## Objective of the Program

The workshop is aimed at imparting knowledge and training on the fundamentals of Data Science and Machine Learning. The main objective is to make the participants familiar with the Emerging Frontiers of Data Science and Machine Learning. More emphasis will be given to practical hands-on exposure by solving some real life problems using Data Science and Machine Learning. FDP participants may be able to understand the basics of data science techniques such as classification/regression techniques, Model selection and evaluation procedures, unsupervised learning, dimension reduction techniques and applications of data science.

- The proposed FDP provides an opportunity to discuss and address the experimental, theoretical work and methods in solving problems.
- How Emerging Data Science and Machine Learning Works.
- How to apply Data Science and Machine Learning Tools and Techniques to solve the problems
- Exchange and cross-fertilize their ideas, in the fields of Data Science and Machine Learning.
- Hands on training on Data Science and Machine Learning tools and techniques are to be applied for different application

## Topics to be covered

This FDP will help you learn the Emerging Frontiers of Data Science and Machine Learning in various fields. This FDP program proposed the following content.

- Overview of Data Science
- Mathematical Foundation for Data Science
- Data pre-processing using Python/R programming
- Data analysis and regression techniques
- Machine Learning Techniques
- Supervise Learning
- Feature Engineering
- Feature selection
- Unsupervised Learning
- Dimension Reduction
- Introduction to Deep Learning
- Applications of Data Science in various fields
- Hands-on Session using MATLAB /Python

## Resource Persons

Internationally acclaimed faculty members from premier institutions like IIT, NIT and Central Universities.

## Who Can Participate

This course provides a forum for Faculties of AICTE approved Institutions and research students, UG and PG students working in the related areas to enhance their background and get exposed to intricate research aspects and to update the knowledge of the faculty.

## Registration Fee

**No registration fee** will be charged from the participants. Registration for the program will be on First Come First Serve basis. They will be provided free course material.

## Registration Process

Registration is required for participating in this course. Applicants can fill the registration form only in online mode available at <https://atalacademy.aicte-india.org/login>

## Certification

Certificates shall be issued by the AICTE Training and Learning (ATAL) Academy to those participants who have attended the programme with minimum 80% attendance and scored 60% marks in the test conducted at the end of the online FDP.

**Department of Computer Science & Engineering, SoS (E&T),  
Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, C.G., India**

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**One-Week Faculty Development Program  
On  
Data Sciences**

**Supported by**

**AICTE Training & Learning (ATAL)  
Academy**

<b>Event Schedule</b>					
<b>Dates</b>	<b>10.00AM-11.30AM</b>	<b>11.30AM-12.00PM</b>	<b>12.00PM-1.30PM</b>	<b>1.30PM-3.00PM</b>	<b>3.00PM-4.30PM</b>
<b>12.10.2020 (Monday)</b>	<b>Registration and Inaugural Session</b>	<i>Break</i>	<b>Session 1 Overview of Data Science</b>	<i>Break</i>	<b>Session 2 Getting started with Python for DS</b>
<b>13.10.2020 (Tuesday)</b>	<b>Session 3 Pandas and Numpy for Data Preprocessing</b>	<i>Break</i>	<b>Session 4 Data Visualization with Matplotlib</b>	<i>Break</i>	<b>Session 5 Introduction to Seaborn</b>
<b>14.10.2020 (Wednesday)</b>	<b>Session 6 Machine Learning and Its Types</b>	<i>Break</i>	<b>Session 7 ML Regression and Classification Hands-on</b>	<i>Break</i>	<b>Session 8 K-Fold Validation and Performance Metrics</b>
<b>15.10.2020 (Thursday)</b>	<b>Session 9 Text processing and various representations</b>	<i>Break</i>	<b>Session 10 Using NLTK for Text Analytics</b>	<i>Break</i>	<b>Session 11 Introduction to Deep Learning</b>
<b>16.10.2020 (Friday)</b>	<b>Session 12 Keras and Tensorflow in Practice</b>	<i>Break</i>	<b>Session 13 CNN and Image Classification</b>	<i>Break</i>	<b>Session 14 Health and Happiness Assessment and Validation Session (04:30 onwards)</b>