



## Faculty/Staff/ Development Programs/Administrative Training Programs (2020-21)

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# BABA FARID COLLEGE OF ENGG. & TECHNOLOGY

### Patrons:

**Dr Gurmeet Singh Dhaliwal**  
(Chairman, BFGI)

### Convenor:

**Dr Jyoti Bansal**  
(Principal, BFCET)

### Co-convenors:

**Er Kovid Sharma**  
(Asst Prof., Dept of ME)  
**Er Ashu Bansal**  
(Asst Prof., Dept of CSE)

### Coordinator:

**Dr Tejinderpal Singh Sarao**  
(Prof., Dept of ME)

### Co-coordinator:

**Er Arshdeep Singh Kalsi**  
(Asst Prof., Dept of ME)  
**Er Gaurav Garg**  
(Asst Prof., Dept of ME)

### Organizing Committee

**Er Harsimran Singh**  
**Er Tanu**  
**Dr Nimisha Singh**  
**Dr Balwinder Singh Brar**  
**Dr Kanwaljeet Kaur**  
**Dr Manpreet Singh**  
**Er Hardeep Singh**  
**Er Sunil K Nagpal**  
**Er Gaurav Kumar**  
**Er Gaurav Garg**  
**Er Gurjant Singh**  
**Ms Simranpreet Kaur**  
**Er Sandeep Maan**  
**Er Priya Mittal**  
**Er Harkamaldeep Kaur**  
**Er Divisha Garg**  
**Er Amandeep Kaur Gai**  
**Er Rajan Vinayak**  
**Er Shilpa Goyal**

### About us

Baba Farid Group of Institution (BFGI) is one of the premier Institution present in Northern Region of India, fully AC and Wi-Fi Campus, where scholarly activities and innovations are strongly appreciated & encouraged. It is managed by Baba Farid Vidyak Society Founded in 1993 under the kind patronage of prominent educationist of Malwa Region and under the Dynamic leadership of its Chairman Dr. Gurmeet Singh Dhaliwal. The Institute offers more than 50 Regular Courses & has a strength of more than 10,000 students not only from State of Punjab, But also from Different parts of country.

**Baba Farid College of Engineering and Technology** is a constituent institute of BFGI and is approved by AICTE & affiliated to MRSPTU, Bathinda. The College runs undergraduate course of B.Tech in the Disciplines of CSE, Civil, Mechanical & Electrical Engineering & Postgraduate Course in CSE.

### About Programme

This programme is designed to provide an exposure to the Recent Developments in Artificial Intelligence (AI) and Robotics. Participants will learn about Robot Kinematics and Dynamics, Control Aspects of Robot Manipulators, Artificial Intelligence in Robotics, Quantum Robotics, Computer Vision and Robotics, AI & Robotics in Industry 4.0, Cognitive Robotics, Sensors and Actuators in Robotics and Intelligent Control of Robotic Systems. The course will be useful for faculty of engineering and sciences who are interested in the learning about Research Issues and Recent Developments in AI and Robotics.



### Six Days AICTE-ISTE SPONSORED

### ORIENTATION/ REFRESHER PROGRAMME

ON

### “Recent Developments in AI and Robotics”

19<sup>th</sup> – 26<sup>th</sup> May 2021



Organized by

**BABA FARID COLLEGE**  
**OF ENGINEERING AND TECHNOLOGY**

**BABA FARID**  
**GROUP OF INSTITUTIONS**

Bathinda, Punjab (India)



### Content of the Programme

The Programme covers recent technologies in

- AI and Robotics
- AI & Robotics in Industry 4.0 platforms
- Sensors, Actuators and Controllers used in Robotics
- Computer Vision and its Applications
- Machine learning Algorithms and their use in Robotics
- Hands on lab session on robot simulators

### Objectives and Outcomes

The Programme will provide a forum for participants to exchange ideas on the state of art research and latest developments in the field of AI and Robotics. It will also help to identify future research needs in the interdisciplinary research fields. The research scholars will also get wider exposure and interaction opportunities with industrial experts and eminent academicians in the field of Robotics. Participants will have sessions on Platforms to develop intelligent robotic applications and Machine Learning algorithms and their use in Robotics. The program shall enable the participants to understand the various application domains of AI and Robotics in the current scenario of Industry 4.0. They also will learn about the new possibilities and avenues in Robotics.



### Resource Persons

Eminent personalities with rich experience and standing in their respective domain from reputed Institutions like IIT/NIT/ITR/CSIR/ Central University and Industries are resource persons in this programme.

### Who can attend

The program is open to all faculty members and Research Scholars of AICTE/UGC affiliated institutes/ Universities. Maximum 100 participants are allowed to attend the programme. **Preference will be given to ISTE members.**

### Registration

There is **no registration fee**. Interested persons can attend the Programme by completing the registration through the following link or scan QR code.

### Registration QR Code



Registration Link: -  
<https://forms.gle/r4X3JTAa0Brex3Zp7>

Join WhatsApp Group  
<https://chat.whatsapp.com/155g1OMVNsR2h3E0Yhsqg>

### Important Dates

Last Date for Registration : 10<sup>th</sup> May 2021  
Confirmation of Participation : 17<sup>th</sup> May 2021

### Test & Certification

An online test shall be conducted by coordinator at the end of the program. Certificates shall be awarded to the participants with 80% attendance and with a score of minimum 60% marks in online test being conducted on the last day of the program, and on submission of online feedback.

### Duration

The Programme will be conducted in **online mode** from 19<sup>th</sup>-26<sup>th</sup> May, 2021 having a total of 16 sessions each of 90 minutes duration.

### Contact Persons

**Coordinator:**  
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**BABA FARID COLLEGE**  
**OF ENGINEERING & TECHNOLOGY**

Bathinda (Punjab) - 151001, www.bfctet.com

**Faculty Development Programme**  
**on**  
**Recent Development in AI and Robotics**  
**Sponsored by AICTE-ISTE**  
**19<sup>th</sup> – 26<sup>th</sup> May 2021**

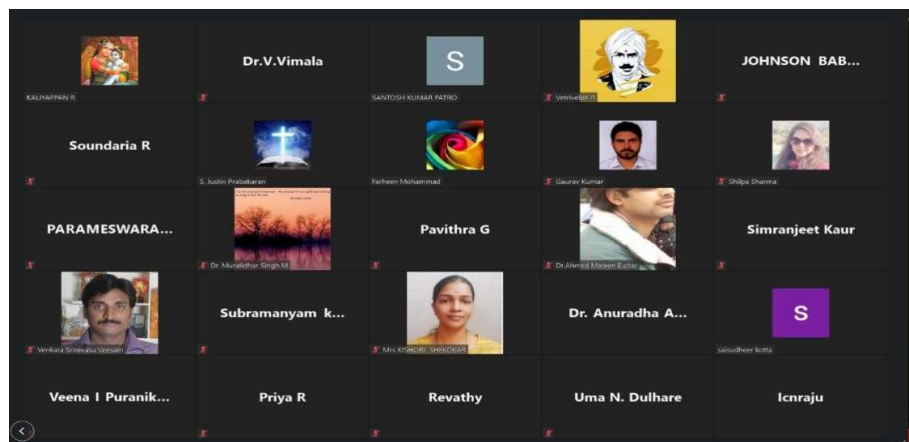
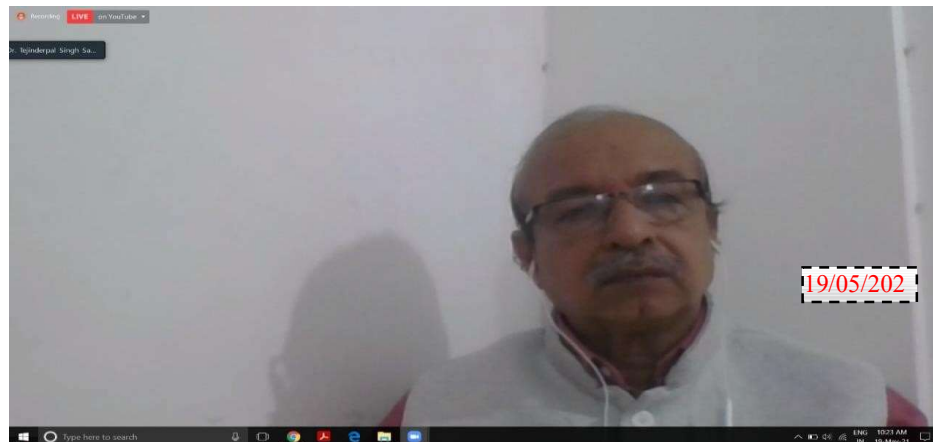
## Session 1: Inauguration Ceremony

Dr. Nimisha Singh welcomed the Chief Guest Prof. Shyam Sundar Pattnaik, Director, NITTTR Chandigarh, Guest of Honor Prof. Vijay D. Vaidya, Executive Secretary, ISTE and Col. B. Venket, Director, Faculty Development Cell, AICTE, New Delhi. She then asked Faculty Development Program Coordinator Dr. Tejinderpal Singh Sarao, Head of Department, Mechanical Engineering to provide details about the program. Later, she asked Prof. Jyoti Bansal, Principal BFCET to extend a vote of thanks to the respected dignitaries.

Prof. Shyam Sundar Pattnaik, Chief guest of the day inaugurated the event and shared about various ongoing NASA missions namely Mission Shakti, Apollo Program, Drake Equation, etc. In addition to these projects, he also mentioned designing of 6 feet tall robot by NASA for space exploration. He mainly guided the audience not to restrict the research work for limited laboratory facilities but to look upon computational facilities available to the academicians. Prof. Vijay D. Vaidya firstly congratulated BFCET team for their selection in organizing FDP after tough competition between institutions and then illustrated the role of faculty for execution of National Education Policy. He described a Trained Training Program specifically organized for faculty members in the research area of Machine Learning, Artificial Intelligence and Internet of Things (IoT). It would be a free online rigorous training for members shortlisted after the screening test. Col. B. Venket expressed his gratitude to all the organizing committee of BFCET. He was quite enthusiastic about the online program that allows hundreds of participants to join on a common platform.



After inauguration, Prof. Ashish Dutta from IIT Kanpur addressed the audience on the topic “AI in Robotics”. The expert added that AI is a broad area and shared many practical applications of artificial intelligence in robotics. At the end of the session, he cleared the doubts of participants.



In third session of day 1, Prof. Asokan T., IIT Madras addressed the audience on the topic “Design and Analysis of Multimodal Robots for Industrial Applications”. Session 3 provided clear insight about designing and analysis of robots for different modes of activity for industrial purpose. It described about the different components of an industrial robot including its hardware and software specifications. Later, Prof. T. Asokan shared his research work. He discussed about his patent work “A versatile hybrid robotic platform with a pair of multi-functional graspers for multimodal locomotion and grasping.”

At last, he effectively cleared the queries of participants.



## Day 2: Thursday, May 20th, 2021

### Resource Person-

1. Dr. BS Pabla [NITTR, Chandigarh]
2. Dr. Ashish Singla [TIET, Patiala]
3. Dr. Prashant Kumar [CSIR-CSIO, Chandigarh]

In first session Prof. (Dr) BS Pabla, Professor Mechanical Engineering department from NITTR, Chandigarh was the expert. Prof. Pabla enlightened the audience by sharing the vision of NEP 2020 policy. He discussed about the major problems currently faced by the higher education system in our country. Expert shared that higher education commission of India (HECI) will ensure best practices in the educational sector. He discussed that HECI had four verticals National higher education regulatory council (NHERC), National Accreditation Council (NAC), Higher Education Grants Council (HEGC) and General Education Council (GEC). Expert discussed the functions of all four verticals in detail. He said that by year 2040, all higher education institutions (HEIs) shall aim to become multidisciplinary institutions, each of which will aim to have 3,000 or more students and a holistic and multidisciplinary education would aim to develop all capacities of human beings in an integrated manner. He explained that regulatory system of higher education will ensure the distinct functions of regulation, accreditation, funding, and academic standards. Then he answered the queries of participants and concluded the talk. In next Session Dr. Ashish Singla, delivered a talk on recent developments in AI and Robotics. He started his session with his ongoing collaborations for many projects with SUNY USA, UGAV Sweden, DRDO, IIT Ropar, CSIO and IIT Delhi. He explained the mathematical modelling with schematic diagram of cart pendulum system and discussed about the mobile robotics that is his ongoing project in collaboration with IIT Delhi. Third Session was taken by Dr. Prashant Kumar, Senior Scientist CSIR, Chandigarh. the topic for the third session was ethical issues in conduct of research and development. He started the session with what are ethics and the ethics are the moral principles to distinguish between right or wrong. Then he discussed about the classification of ethics that are fundamental ethics, personal ethics, societal ethics, regulatory ethics etc. Then he discussed about the top institutional causes for plagiarism in India that plagiarism in academics is a direct consequence of schooling, pressure to publish etc.

## Day 3: Friday, May 21st, 2021

### Resource Person –

1. Prof. Ashish Singla, TIET, Patiala
2. Rishemjit Kaur, Senior Scientist, CSIR Chandigarh.
3. Dr. Parvinder Singh, CUP, Bathinda



The topic for the first session was Robotics in Healthcare delivered by Prof. Ashish Singla.. He started the talk by explaining two devices of Healthcare: Surgical Device and Assistive Device. He added his ongoing collaborations with CSIR CSIO Chandigarh for surgical device and University of Gavic, Sweden and DEBEL, Bangalore. Dr Singla discussed about the manipulators used for medical applications by showing basic mechanical structure of MMA modeled in inventor environment along with its prototype developed at CSIR-CSIO, Chandigarh. And also discussed about the exo-skeleton which means providing external support to the body parts of the elderly people so that they can have the better mobility. In last, he answered the queries of participants. The topic for the second session was ‘Can we teach morality to machines? Ethics of AI and Robotics delivered by Dr Rishemjit Kaur. First, she discussed about advanced technologies and their concerns. After that she talked about notion of artificial intelligence (AI) Dr. Kaur also discussed the history of AI and Asimov’s law of robotics. As the session proceeded, she explained the privacy, surveillance in this digital world and privacy preserving techniques. The topic for the third session was “A journey from classical computing to quantum computing: Application in Robotics delivered by Dr. Parvinder Singh. Expert talked about how quantum mechanics (QM) was originated. After that he explained the concept of QM. Quantum algorithms have been discussed by Dr. Singh that run on a quantum computer and achieve a speed-up, or other efficiency improvements over any possible classical algorithm. the end of the session, Dr. Singh discussed about the Quantum machine learning: training the machine to learn from the algorithms implemented to handle data.

### **Day 4: Monday, May 24th, 2021**

#### **Resource Person-**

1. Prof. Amandeep Kaur [CUP, Bathinda]
2. Prof. Suril Shah [Professor, IIT Jodhpur]
3. Dr. Gaurav Kumar [Director, MRCS]

Prof. Amandeep Kaur, delivered her session on ‘AI & Robotics in industry’. She explained that AI is the combination of several technologies, which allow software and machines to sense, understand, act and learn on their own. She further explained that industrial production can achieve higher efficiency compared to human labour. Prof. Amandeep also discussed that AI can enable robots to perform tasks that a person would not do. She discussed about the direct benefits of machine learning and AI for manufacturing and the direct benefits were cost reduction, predicting remaining useful life, improved supply chain management. The topic for the second session was ‘Robot motion planning’ taken by Dr. Suril Shah. He started with the definition of Motion planning that it also known as path planning and it is a computational problem to find a sequence of valid configurations that moves the object



from the source to destination. He explained that in robot motion planning two planning were there the first one was the path planning and the other was the trajectory planning. In last ten minutes, he cleared doubts of participants. The topic for the third session was open-source platforms and use cases for real time intelligent applications delivered by Dr. Gaurav Kumar. He started his session with the various open source platforms for real time intelligent applications that were GAZEBO, NODE-RED. Expert taken two sessions on this topic.

## **Day 5: Tuesday, May 25th, 2021**

### **Resource Person:**

1. Dr. Gaurav Kumar, Director MRCS
2. Dr. Mala Kalra, NITTTR Chandigarh
3. Dr. Ritesh Kumar, Senior Scientist, CSIR Chandigarh

Dr. Gaurav Kumar, Director MRCS addressed the audience on the topic “Open Source Platforms and Use Cases for Real Time Intelligent Applications-Part 2”. It was a complete hands-on session. He demonstrated the procedure step by step to access [openweathermap.org/api](https://openweathermap.org/api) by searching in browser and subscribing to the respective API. Next, he discussed about Message Queuing Telemetry Transport (MQTT) which is a dynamic control and communication protocol. It is used to connect low power devices. He then described Cooja Simulator which is a free open source tool. It is test bed for connecting real sensors. He also briefed about Near Field Communication (NFC) and other protocols like AMQT, COAP, CAP, etc. Dr. Mala Kalra, NITTTR Chandigarh addressed the audience on the topic “Data Analytics using Python”. She discussed about Data Science Life Cycle which includes Data Collection, Data Wrangling, Exploratory Data Analysis, Data Modeling and Optimization. She then explained the libraries of Python namely NumPy and Pandas. The expert then went for hands on session in Python programming language. She used Anaconda Navigator and Jupyter Notebook as Integrated Development Environment (IDE). She taught how to import the libraries of Python, read an input file and play with the array inputs. She trained the audience to make dynamic arrays using certain functions like `arrange` and `random`. At the end of the session, she clarified the doubts of participants in an effective manner. Next Dr. Ritesh Kumar, Senior Scientist at CSIR Chandigarh addressed the audience on the topic “Principle Component Analysis: Applications in Machine Learning”. Session 3 provided clear insight about applications of Principle Components Analysis (PCA) in machine learning field which are Data Visualization, Data Compression, Noise Reduction, Data Classification, Trend Analysis and Factor Analysis.

**Day 6: Wednesday, May 26th, 2021**

**Resource Person –**

1. Er Abhishek Gupta, R&D Head, Tevatron Technologies Pvt Ltd
2. Mr. Amitesh Marwah, State Youth Coordinator, Art of living, Punjab

Er Abhishek Gupta delivered the expert talk on the topic “Challenges and opportunities for AI and Robotics start-ups”. He discussed about the artificial intelligence (AI), Machine learning (ML), deep learning (DL) and then about the challenges for deploying AI such as requirement of huge data set, product deployment. He said that different skill set in people (mathematics, robotics, computer science, physics, machine learning algorithm and physics) are required for start-ups of AI and Robotics. As the session proceeded, he described the need of cloud computing. At the end of the session, he discussed about the opportunities of AI & Robotics in various fields such as in military, agriculture. Mr. Amitesh Marwah, delivered his talk on session ‘Healing from Breath through the art of living’. He initiated the talk by describing about Body, Breathe, Mind, Intellectual, Memory and happiness. He also added it is the only mind which oscillates between our past and future. Meanwhile, Mr. Amitesh Marwah invited Dr. Vikas Gautam. He told us the importance of Yoga and breathe and what is the science behind them. After that, he invited every participant to do breathing in-out yoga for 35-45 minutes so that it will shifts our energy level high. It was experienced that while doing meditation, we are completely in harmony with our emotions and moreover become aware our emotions. In the last session of the program, quiz took place from 2:00 p.m. to 3:00 p.m. At last, Dr. Tejinder Pal Singh Sarao, FDP coordinator thanked all members of organizing team, participants, resource persons, and management of BFGI for success of programme.

## BFCET holds 6-day FDP on recent developments in AI & robotics

**ANIL VERMA  
BATHINDA, JUNE 14**

A 6-day Faculty Development Programme on “RECENT DEVELOPMENTS IN AI & ROBOTICS” sponsored by All India Council of Technical Education and Indian Society of Technical Education was conducted at Baba Farid College of Engineering & Technology, Bathinda. On the very first day during inauguration of the programme, Prof. Shyam Sundar Pattnaik, Director, NITTTR Chandigarh, Prof. Vijay D. Vaidya, Executive



Secretary, ISTE and Col. B. Venket, Director, Faculty Development Cell, AICTE, New Delhi congratulated BFCET team for getting selected to organize online Faculty Development

Programme on Recent Developments in AI & Robotics. Prof. Shyam Sundar Pattnaik discussed about various ongoing NASA missions namely Mission Shakti, Apol-

lo Programme, Drake Equation and Prof. Vijay D. Vaidya described about Train the Trainer Programme specifically organized for faculty members in the research area of Machine Learning, Artificial Intelligence and Internet of Things (IoT). Col. B. Venket expressed his gratitude to all the organizing committee members of BFCET. FDP Coordinator Dr. Tejinder Pal Singh Sarao shared that BFCET received 349 registrations from Faculty members and Research Scholars across the country.



# BABA FARID COLLEGE OF ENGG. & TECHNOLOGY

### Patrons:

**Dr Gurmeet Singh Dhaliwal**  
(Chairman, BFGI)

### Chairperson:

**Dr Manish Goyal**  
Principal, BFCET

### Convener:

**Dr Jyoti Bansal**  
(Prof., Dept of CSE)

### Co-convener:

**Er Hardeep Singh**  
(Asst Prof., Dept of ECE)

### Coordinator:

**Dr Tejinderpal Singh Sarao**  
(Prof., Dept of ME)

### Co-coordinators:

**Er Kovid Sharma**  
(Asst Prof., Dept of ME)

**Er Pankaj Mittal**  
(Asst Prof., Dept of CE)

### Organizing Committee

Er Harman Singh  
Er Tanu  
Dr Nimisha Singh  
Er Sunil K Nagpal  
Er Ashu Bansal  
Er Charandeep Singh Bedi  
Er Rajan Vinayak  
Er Gaurav Kumar  
Er Gaurav Garg  
Er Pushpinder Sharma  
Er Arshdeep Singh Kalsi  
Er Abhi Garg  
Er Priya Mittal  
Dr Manpreet Singh  
Er Harkamaldeep Kaur  
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<https://bit.ly/3bG0wff>

### About us

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### AICTE-ISTE SPONSORED

### ORIENTATION/ REFRESHER PROGRAMME

ON

### “Recent Developments in AI and Robotics”

22<sup>nd</sup> – 27<sup>th</sup> March 2021



Organized by

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OF ENGINEERING AND TECHNOLOGY**

**BABA FARID  
GROUP OF INSTITUTIONS**  
Bathinda, Punjab (India)



### Content of the Programme

#### The Programme covers recent technologies in

- Machine learning and its Applications
- Fundamentals of Robotics and Artificial Intelligence
- Sensors, Actuators and Controllers used in Robotics
- Recent advances in AI and Robotics
- Robot Control Programming

### Objectives and Outcomes

The Programme will provide a forum for participants to exchange ideas on the state of art research and latest developments in the field of AI and Robotics. It will also help to identify future research needs in the interdisciplinary research fields. The research scholars will also get wider exposure and interaction opportunities with industrial experts and eminent academicians in the field of Robotics. Participants will have sessions on Platforms to develop intelligent robotic applications and Machine Learning algorithms and their use in Robotics. The program shall enable the participants to understand the various application domains of AI and Robotics in the current scenario of Industry 4.0. They also will learn about the new possibilities and avenues in Robotics.



### Resource Persons

Eminent personalities with rich experience and standing in their respective domain from reputed Institutions like IIT/NIT/IIIT/TIET/ Central University and Industries are resource persons in this programme.

### Who can attend

Faculty members of AICTE approved Engineering/Polytechnic Colleges/University departments & Research Scholars. Maximum 100 participants are allowed to attend the programme. Preference will be given to ISTE members.

### Registration guidelines

Interested persons can attend the Programme by completing the registration through the following link or scan QR code.

### QR Code



### Registration Link: -

<https://forms.gle/rEFgLRnSKzTPd7MeA>

### Important Dates

Last Date for Registration : 15<sup>th</sup> March 2021

Confirmation of Participation : 19<sup>th</sup> March 2021

### Registration Fee & Certificate

There is no registration fee. Certificates shall be awarded to the participants with 80% attendance and with a score of minimum 60% marks in online test being conducted on the last day of the program, and on submission of online feedback.

### Duration

The Programme will be conducted in online mode from 22<sup>nd</sup>-27<sup>th</sup> March, 2021 having a total of 16 sessions each of 90 minutes duration.

**BABA FARID COLLEGE  
OF ENGINEERING & TECHNOLOGY**

Bathinda (Punjab) - 151001, www.bfcet.com



**Faculty Development Programme**  
**on**  
**Recent Development in AI and Robotics**  
**Sponsored by AICTE-ISTE**

**22<sup>nd</sup> – 27<sup>th</sup> March 2021**

**Day 1: Monday, March 22<sup>nd</sup>, 2021**

Baba Farid college of Engineering & Technology, Bathinda organized one week Orientation/Refresher Programme sponsored by AICTE & ISTE on "RECENT DEVELOPMENTS IN AI & ROBOTICS ". Principal of BFCET, Dr Manish Goyal welcomed guests in FDP. Followed by Programme coordinator, Dr Tejinder pal Singh Sarao who thanked and gave information about the Programme. During inauguration of the program, Dr PK Khosla, Executive Director, C-DAC Mohali, Prof. Vijay D. Vaidya, Executive Secretary, ISTE and Col. B. Venket, Director, Faculty Development Cell, AICTE, New Delhi congratulated BFCET team for getting selected to organize online Faculty Development Program on Recent Developments in AI & Robotics. Chief guest Dr Khosla shared his views on future applications of Artificial Intelligent and Robotics. Prof. Vaidya shared about the need of such programs and Col. Venket, Director, FDC AICTE shared about different quality initiatives of AICTE for faculty members of Engineering Institutes in India. In 2<sup>nd</sup> session, Prof. Ekta Singla (IIT Ropar) delivered her talk on the Robot Operating System (ROS). She also discussed the kinematic modeling Case studies. She discussed the various features of ROS like Communication interfaces, Robot Geometry library and tools of ROS. She also discussed some of programming concepts to Join the robot's links and discussed the steps of installing ROS. Dr. Prashant Kumar, Senior Scientist CSIR Chandigarh discussed in 3<sup>rd</sup> session about Decision optimization using Analytic hierarchy process. he said The multi-criteria programming made through the use of the analytic hierarchy process is a technique for decision making in complex environments in which many variables or criteria are considered in the prioritization and selection of alternatives or projects.

**Day 2: Tuesday, March 23<sup>rd</sup>, 2021**

Dr Sachi Nandan from COE Pune discussed in first session about Deep learning and its applications. Dr Ashish Singla from TIET Patiala in next session delivered a talk on Robot control programming using MATLAB. Expert said that Simulation software helps you to predict the behavior of a system and you can use simulation software to evaluate a new design, diagnose



problems with an existing design, and test a system under conditions that are hard to reproduce, such as a satellite in outer space. Prof SS Dhama from NITTTR Chandigarh discussed about Sensors, Actuator's and controllers used in Robotics Prof Dhama said that The ScorBot ER-4U is a versatile and reliable system for industrial robotics training and education. The ScorBot ER-4U robot arm can be mounted on a tabletop, pedestal or linear slide base. The robot's speed and repeatability make it highly suited for both stand-alone operations and integrated use in automated work cell applications such as robotic welding, machine vision, CNC machine tending and other FMS operations

### **Day 3: Wednesday, March 24<sup>th</sup>, 2021**

Dr Ashish Singla in his session on Recent Advances in robotics research discussed about recent research on Robotics and his ongoing collaborations with various international and national firms like SUNY USA, IIT Delhi, CSIO Chandigarh., IIT Ropar, UGAV Sweden, DRDO DEBEL. Dr Singla further discussed about the mobile robotics and their application in various places like airports, malls, warehouse, hospitals, he further talked about their ongoing project in collaboration with IIT Delhi to deploy health care robots in operation theatre of PGI Chandigarh for the help of the surgeon. Ms Sonia Dosanjh from CDAC-Mohali discussed in her expert talk about the role of computer vision in Artificial intelligence. Optical characters recognition and its applications and vision-based biometrics, applications of image modalities in different areas such as Gamma ray imaging, ultrasound imaging, X-ray imaging, light microscopy imaging, satellite imaging, multi spectral imaging, infrared imaging, visible imaging, radar imaging, MRI imaging. Prof. Amandeep Kaur from CUP, Bathinda delivered her talk on topic "Artificial intelligence in Robotics" and key research areas of artificial intelligence. She discussed autonomous vehicles, ROOMBA (Robot vacuum), human to non-resource integration & non-human agency among AI enabled autonomous robot and intelligent robots.

### **Day 4: Thursday, Mar 25<sup>th</sup>, 2021**

Dr Ritesh Kumar, Senior Scientist CSIR-CSIO, Chandigarh took his session on topic Ensemble Learning and Algorithmic Implementations. Dr Rishemjit Kaur, Senior Scientist CSIR-CSIO, Chandigarh in next session discussed about the machine learning models and evaluation of performance matrices. She explained that we need to evaluate our models for performance evaluation, model selection and parameter selection. She also explained about the performance metrics that we have to use. Dr. Vahida Attar from CoE, Pune in 3<sup>rd</sup> session discussed about diagnosing the machine learning models. She described the model evaluation procedures by explaining the holdout method, resampling methods and three-way data splits. Dr. Vahida



explained the interpretation of learning curves in ML models and also explained the types of learning curves.

## **Day 5: Friday, Mar 26th, 2021**

Professor Ashish Dutta from IIT, Kanpur in first session delivered a expert talk on Machine learning in mobile robotics. Expert explained about the robot motion planning that it determines how to go somewhere without hitting obstacles and this can be done by path planning or motion planning Then he explained about the problem statement of path planning, models of robot motion and degrees of freedom. Dr. Gaurav Kumar, Director MRCS, discussed in his expert talks about “python language as prime programming language for machine learning” and “implementation of deep learning on google colaboratory”.

## **Day 6: Saturday, March 27th, 2021**

Dr Gaurav Kumar discussed about “Robotic Software Suites and Libraries”. Dr Kumar described applications of Robotics in various fields. He discussed in the session was MQTT (Message Queuing Telemetry Transport) which is a protocol which is used as free and open source. In general, it is for gadget-to-gadget communication. He explained it by taking few examples like smart home automation, and smart office automation. In next session Mr. Amitesh Marwah State Youth Coordinator, Art of living delivered his talk on ‘Stress free teaching’. He intitated the talk by describing seven levels of our life existence- Body, Breathe, Mind, Intellectual, Memory, Natural and happiness. He also added it is only mind which oscillates between our past and future. He shared about the importance of Yoga and Meditation in our life. In the last session of the program, online quiz was conducted and feedback was taken from participants. At last Coordinator of program, Dr Tejinder Pal Singh Sarao thanked everyone who have participated in the FDP and he also added that the objective of this programme was to bring different experts, their researches of AI and robotics is fulfilled. Furthermore, he thanked every expert who had delivered their best and answered queries of participants. He also requested participants to share their valuable experience and must share this knowledge to their students so that students will get maximum benefit.



## BABA FARID COLLEGE OF ENGINEERING & TECHNOLOGY

Muktsar Road, Bathinda, Punjab (India)

**AICTE-ISTE SPONSORED ONE WEEK  
ONLINE ORIENTATION/REFRESHER PROGRAMME**  
on  
**"RECENT DEVELOPMENTS IN AI & ROBOTICS"**

**Concluded Successfully**  
22<sup>nd</sup> - 27<sup>th</sup> March 2021



**DISTINGUISHED SPEAKERS**



**BABA FARID  
GROUP OF INSTITUTIONS**  
Bathinda, Punjab (India)  
#StayHome #StaySafe



# BABA FARID COLLEGE OF ENGG. & TECHNOLOGY

### Patron

**Dr. Gurmeet Singh Dhaliwal**  
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### Chairperson

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(Principal)

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**Dr. Jyoti Bansal**  
(Prof., Dept. of CSE)

### Co-convener

**Er. Harleen Kaur**  
(Asst Prof., Dept of CSE)

### Programme Coordinator

**Dr. Tejinder Pal Singh Sarao**  
(Prof & Head, Dept. of ME)

### Programme Co-coordinators

**Er. Kovid Sharma (Asst Prof., Dept. of ME)**  
**Er. Pankaj Mittal (Asst Prof., Dept. of CE)**

### Organizing Committee

Er. Hardeep Singh  
Er. Harsimran Singh  
Er. Priya Mittal  
Er. Arshdeep Singh Kalsi  
Er. Rajan Vinayak  
Dr. Nimisha Singh  
Er. Tanu  
Er. Gaurav Garg  
Er. Pushpinder Sharma  
Er. Karandeep Singh

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Website: [www.bfcet.com](http://www.bfcet.com)  
<https://rb.gy/1ahmj0>

### About us

Baba Farid Group of Institution (BFGI) is one of the premier Institution present in Northern Region of India, fully AC and Wi-Fi Campus, where scholarly activities and innovations are strongly appreciated & encouraged. It is managed by Baba Farid Vidyak Society Founded in 1993 under the kind patronage of prominent educationist of Malwa Region and under the Dynamic leadership of its Chairman Dr. Gurmeet Singh Dhaliwal. The Institute offers more than 50 Regular Courses & has a strength of more than 10,000 students not only from State of Punjab, But also from Different parts of country.

Baba Farid College of Engineering and Technology is a constituent institute of BFGI and is approved by AICTE & affiliated to MRSPTU, Bathinda. The College runs undergraduate course of BTech in the Disciplines of CSE, Civil, Mechanical & Electrical Engineering & Postgraduate Course in CSE.

### About FDP

This programme is designed to provide an exposure to the Recent Developments in Artificial Intelligence (AI) and Robotics. Participants will learn about Robot Kinematics and Dynamics, Control Aspects of Robot Manipulators, Artificial Intelligence in Robotics, Quantum Robotics, Computer Vision and Robotics, AI & Robotics in Industry 4.0, Cognitive Robotics, Sensors and Actuators in Robotics and Intelligent Control of Robotic Systems. The course will be useful for faculty of engineering and sciences who are interested in the learning about Research Issues and Recent Developments in AI and Robotics.



## AICTE-ISTE SPONSORED INDUCTION/ REFRESHER FACULTY DEVELOPMENT PROGRAMME

ON

“Recent Developments in AI and Robotics”

7<sup>th</sup> – 12<sup>th</sup> December 2020



Organized by

**BABA FARID COLLEGE  
OF ENGINEERING AND TECHNOLOGY**

**BABA FARID  
GROUP OF INSTITUTIONS**

Bathinda, Punjab (India)



### Resource Persons

Eminent personalities with rich experience and standing in their respective domain from reputed Institutions like IIT/NITTTR/TIET/ Central University and Industries are resource persons in this programme.

**Prof. Asokan T**  
Indian Institute of Technology, Madras

**Prof. Ashish Dutta,**  
Indian Institute of Technology, Kanpur

**Prof. Ekta Singla**  
Indian Institute of Technology, Ropar

**Prof. BS Pabla**  
NITTTR, Chandigarh

**Prof. SS Dhani**  
NITTTR, Chandigarh

**Prof. Ashish Singla,**  
Thapar Institute of Technology, Patiala

**Prof. A Kaur**  
Central University Punjab, Bathinda

**Prof. Suril v. Shah**  
Indian Institute of Technology, Jodhpur

**Prof. Parvinder Singh**  
Central University Punjab, Bathinda

**Dr. G. Kumar, Director**  
Magma Research and Consultancy Services

**Dr. Sohan Chandel**  
Psychologist and Corporate Trainer

**Mr Abhishek Gupta**  
R&D Head, Tevatron Technologies Pvt Ltd

### Who can attend

Faculty members of AICTE approved Engineering/Polytechnic Colleges/University departments & Research Scholars. Maximum 100 participants are allowed to attend the programme. Preference will be given to ISTE members.

### Content of the Programme

- Introduction to Robotics
- Robot Kinematics
- Robot Dynamics
- Control Aspects of Robot Manipulators
- AI & Robotics in Industry 4.0
- Quantum Robotics
- Platforms to develop intelligent robotic applications
- Machine Learning algorithms and their use in Robotics
- Computer Vision and Robotics
- Design and Control of Biped Locomotion
- Sensors and Actuators in Robotics
- Challenges and Opportunities for AI & Robotics startups
- Artificial Intelligence in Robotics
- Robot Motion Planning
- Emotional Well Being

### Objectives and Outcomes

The FDP will provide a forum for participants to exchange ideas on the state of art research and latest developments in the field of AI and Robotics. It will also help to identify future research needs in the interdisciplinary research fields. The research scholars will also get wider exposure and interaction opportunities with industrial experts and eminent academicians in the field of Robotics. Participants will have sessions on Platforms to develop intelligent robotic applications and Machine Learning algorithms and their use in Robotics. The program shall enable the participants to understand the various application domains of AI and Robotics in the current scenario of Industry 4.0. They also will learn about the new possibilities and avenues in Robotics.



### Registration guidelines

Interested persons can attend the FDP by completing the registration through the following link or scan QR code.

### QR Code



Registration Link: -

<https://rb.gy/jqb0mc>

### Important Dates

Last Date for Registration : 30<sup>th</sup> November 2020

Confirmation of Participation : 2<sup>nd</sup> December 2020

### Registration Fee & Certificate

There is no registration fee. Certificates shall be awarded to the participants with 80% attendance and with a score of minimum 60% marks in online test being conducted on the last day of the program, and on submission of online feedback.

### Duration

The FDP will be conducted in online mode and details will be from 7<sup>th</sup>-12<sup>th</sup> December, 2020 having a total of 16 sessions each of 90 minutes duration.



**Faculty Development Programme**  
**on**  
**Recent Development in AI and Robotics**  
**Sponsored by AICTE-ISTE**

**7<sup>th</sup> – 12<sup>th</sup> Dec 2020**

Baba Farid college of Engineering & Technology, Bathinda organized one-week online Faculty development Programme sponsored by AICTE & ISTE on "RECENT DEVELOPMENTS IN AI and ROBOTICS ". Principal of BFCET, Dr Manish Goyal welcomed guests in FDP. Followed by Programme coordinator, Dr Tejinder Pal Singh Sarao who thanked and gave information about the programme. Our first guest of honor, **Prof Vijay D. Vaidya, Executive Secretary, ISTE** congratulated BFCET team for getting selected to organize FDP after tough completion between institutions. Our second guest of honor, **Dr PK Khosla, Director, C-DAC Mohali** also congratulated team BFCET and shared his views on recent trends in artificial intelligence. **Key note speaker, Dr.Valentina E. Balas, Professor, University of Arad Romania** shared need and importance of AI & Robotics and how companies are looking for digital transformation and even quoted few examples of the same. She congratulated BFCET for organizing FDP and wished good luck and success. Chief guest in inaugural function, **Vice chancellor of MRSPTU, Prof. Buta Singh Sidhu** inaugurated the event and shared his ideas and experiences on recent developments of Artificial intelligent and Robotics. He appreciated the rigorous efforts of management to enhance knowledge of faculty members regarding implementation of AI and Robotics.

After inauguration, Professor Asokan, IIT Madras shared his view on Introduction to Robotics and then updated knowledge of participants about recent trends in Robotics. Further Myths and Facts about Robotics were discussed and it was made clear that there was no threat to Jobs due to robotics. Prof. Ekta Sigla, IIT Ropar delivered her talk on robot kinematics. She discussed about advancements in industry robotics.

On second day of FDP, Prof SS Dhami from NITTTR Chandigarh updated knowledge of participants about Sensors and Actuators in Robotics. He discussed working of actuator and controllers with the help of animations. Dr Parvinder Singh of Central University Punjab, Bathinda delivered his talk on "Quantum Robotics". Expert told that it is an interdisciplinary research area. Expert also shared a documentary video was played on Quantum Computing and Robots and various applications of Quantum Robots were discussed. Prof. BS Pabla, NITTTR Chandigarh, conducted the third session on Artificial Intelligence in Robotics. He mentioned that AI and



Robotics both are very powerful areas with wide applications. Expert discussed the importance of AI and Robotics in the current scenario and its uses. He also answered the queries of participants.

On the third day of FDP, Dr. Ashish Singla, addressed the faculty on the Robot Dynamics. Expert discussed the case study of the SCARA Robot, and its validation through MATLAB and at last, he cleared the doubt of the queries raised by faculty. Dr Gaurav, Director of Magma Research and Consultancy Services gave an expert lecture on Machine learning Algorithm and their use in Robotics.

Dr Gaurav started the session describing Arduino and Webcam integration and Image Feature Extraction. Moving forward he mentioned difference between Arduino and raspberry pie. He also mentioned Websites from where Machine learning could be learned. Prof Suril V. Shah, Indian Institute of Technology, Jodhpur delivered talk on “Robot Motion Planning”.

On fourth day, in first session Prof Amandeep Kaur of Central University of Punjab, Bathinda delivered Expert Lecture on topic “Computer Vision and Robotics. She described how in Industry 4.0 computers are connected and communicate with each other to ultimately make decisions without human involvement. She discussed the role of computer vision and robotics in this automated decisionmaking. She also shared future research topics in computer vision and robotics.

Dr Gaurav Kumar gave an expert lecture on topic “Platforms for Intelligent Robotic Applications”. Speaker started with different platforms for Intelligent Robotic Applications providing their website links like <https://cyberbotics.com>, <http://gazebosim.org/>, [www.ros.org/](http://www.ros.org/), <https://www.orocos.org/>, <https://www.yarp.it/>, <https://www.mrpt.org/>, <https://www.robotarium.gatech.edu>. The third session was conducted by Abhishek Gupta, R&D Head- Tevatron Technologies Pvt. Ltd. on the Topic of challenges and opportunities for AI & Robotics startups. Expert updated participants about challenges such as Data security and privacy, and he explained the opportunities such as Real-time environment data capture, understanding, and error reduction, intelligent procurement of materials, delivery management etc.

On fifth day of FDP Prof Ashish Dutta delivered his expert talk on “Biped Locomotion”. He shared about legged locomotion and wheel motion through practical examples. He discussed legged structure of animals like mammal, lizard, and reptile. He said very high trajectory tracking precision is generally required in order to perform balancing and achieve sufficiently high motion speeds. In next session, Dr. Ashish Singla, shared his views about the control aspects of Robotic Manipulators. He shared about the basis of control system and multifaceted applications of the control system in which he shared about the redundant manipulator, flexible manipulator and



under actuated system. In third session, Prof. Ekta Singla, IIT Ropar discussed about “AI and Robotics in Industry 4.0”. She talked about SAMARTH UDYOG- BHARAT 4.0. It is an Industry 4.0 initiative of Government of India under its scheme on Enhancement of Competitiveness in Indian Capital Goods Sector. Further she discussed how we are connected with AI in concern to different domains. Then she discussed the connection of Robotics to Industry 4.0 and its future trends. In the end she discussed the importance of Industry 4.0 and also shared the case study related to AI and Robotics.

On last sixth day of FDP, Prof. Lalit Mohan delivered his expert lecture on “AI in Smart Cities”. He described that a smart machine is a device embedded with machine-to-machine and/or cognitive computing technologies. Prof. Goyal discussed that there are various types of Technical and non- technical Hurdles in smart cities. All basics of AI in Smart Cities was thoroughly covered. At the end of Session future research topics were discussed. Dr. Sohan Chandel, Psychologist and Corporate Trainer, Founder NMET Pvt. Ltd. delivered talk on “Emotional Well being”. He illustrated the importance of emotional well being in individual’s life especially in this era of social platforms. Dr. Sohan has imparted training to improve the Communication, Interpersonal, Teambuilding and Leadership skills of the employees of, 40+ national and multinational and Govt. organizations, for more than 6000 hrs, in last 11 years, with an excellent feedback and improvement in trainee’s personal and professional life. In last session of FDP, Online quiz was conducted and feedback was taken followed by Valedictory session which was concluded by sharing a brief report about FDP by Co-ordinator of Program, Dr Tejinderpal Singh Sarao. Dr Manish Goyal, Principal Baba Farid College of Engineering & Technology congratulated all the participant’s and organizers of the event.



## Faculty Development Programme

on

## Performing Experiments on Virtual Labs

10<sup>th</sup> – 14<sup>th</sup> Aug 2020

Baba Farid College of Engineering and technology conducted a Five-Day Faculty Development Programme (FDP) on performing experiments on virtual labs from 10<sup>th</sup> to 14<sup>th</sup> August, 2020. The FDP aimed to help educators enhance their knowledge and skills in utilizing virtual labs to improve the quality of teaching and learning in the campus.

The program covered various aspects of virtual labs, including their benefits, design, development, and implementation.

Prof. Sudhir D. Agashe and Mr. Amod Avinash Harankhedkar from Cllege of Engineering, Pune conducted this session for five days. Each new day was a new learning for participants. 234 attendees including 10 from BFCET attend this FDP. The complete FDP was online but hands on as the expert shared his screen and step by step asked participants to do hands on also. All participants performed well and asked their queries in parallel. This faculty development program on virtual labs helped educators enhance their teaching skills and create engaging and interactive learning environments for their students.

### Day 1:

The FDP included a series of sessions by Prof. Sudhir D. Agashe, an expert in the field of - virtual laboratory project. The first day of the programme covered Introduction to virtual labs and their benefits in education. He discussed about developing virtual labs using various platforms and software He also explained the importance of designing of virtual labs for different subject areas.

### Day 2:

The second day of the programme focused on incorporating virtual labs into the curriculum. Mr. Amod Avinash Harankhedkar discussed the need of Engaging students in virtual lab activities. He also highlighted the need for organizations to collaborate with other educators and institutions to share virtual lab resources.

After this the speaker elaborated about types of virtual labs and their suitability for different disciplines. At the end of session, he discussed about designing a virtual lab experiment, including lab protocols, data collection and analysis, and assessment.



### **Day 3:**

On the third day of the programme, Mr. Amod Avinash Harankhedkar discussed the basic idea, objectives and types of virtual labs. He also demonstrated practically the function of virtual labs in different discipline. He said that with simulated experiments students get a real feel of practical problems through remote access. He also highlighted the importance of much needed setting of virtual labs and encouraged the participants to undertake virtual experiments.

### **Day 4:**

The fourth day of the programme focused on the Best Practices for Virtual Labs in which mainly quality assurance and evaluation of virtual labs were discussed. Mr. Amod Avinash Harankhedkar explained the Pedagogical considerations for virtual labs. Moreover, he also discussed about accessibility and equity considerations for virtual labs.

### **Day 5:**

On the final day of the programme Prof. Sudhir D. Agashe guided for the future Directions for Virtual Labs like emerging technologies and trends in virtual labs. Moreover, Opportunities for research and collaboration in virtual labs were discussed by the speaker.


At the end of the programme the speaker mentioned the implications of virtual labs for the future of science education. The interactive session allowed the participants to clarify their doubts and queries regarding Virtual labs.

**BABA FARID COLLEGE OF ENGINEERING & TECHNOLOGY**  
 Muktsar Road, Bathinda, Punjab (India)  
 in Collaboration with  
**College of Engineering Pune (COEP)**  
 Organized

**5 Days Faculty Development Programme**  
 on


**PERFORMING EXPERIMENTS ON VIRTUAL LABS**

Join on




**BABA FARID GROUP OF INSTITUTIONS**  
 Bathinda, Punjab (India)

Resource Persons



**Prof. Sudhir D. Agashe**  
 Principal Investigator Virtual Laboratory Project (NMEICT),  
 College of Engineering, Pune



**Amod Avinash Harankhedkar**  
 Outreach Coordinator, Virtual Labs Project,  
 College of Engineering, Pune

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### List of Participants

S No.	Name	Designation	Department	Institute
1.	Pankaj Mittal	Assistant Professor	Civil Engineering	Baba Farid College of Engineering and Technology, Bathinda
2.	Nitish Kumar Dubey	Assistant Professor	Civil Engineering	IDEAL INSTITUTE OF TECHNOLOGY, GHAZIABAD
3.	Deepak Kumar Aggarwal	Assistant Professor	Civil Engineering	SANSKAR College of Engineering and Technology, Ghaziabad
4.	Akrati Gupta	Teacher	Other	P. S. Anandpur Pipri
5.	Suraj S Pawar	Asst Maintenance Engineer	Other	Shri Sant Gajanan Maharaj College of Engineering, Shegaon
6.	Nandipati S M Ravi Kumar	ASSISTANT PROFESSOR	Civil Engineering	DVR & Dr H S MIC COLLEGE OF TECHNOLOGY
7.	Vennapusa Srinivasareddy	Student	Civil Engineering	RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS
8.	S. Suriya	Associate Professor	Civil Engineering	Jerusalem College of Engineering



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9.	Akella Naga Sai Baba	ASSISTANT PROFESSOR	Civil Engineering	MALLAREDDY ENGINEERING COLLEGE (AUTONOMOUS)
10.	Jai Bhaskar	Assistant Professor	Computer Science and Engineering	University College of Engineering and Technology, Bikaner, Rajasthan
11.	Rishav	Lecturer	Electrical Engineering	Baba Farid College of Engineering and Technology
12.	Veerpal Kaur	Assistant professor	Computer Science and Engineering	Akal degree college, mastuana , sangrur
13.	Dhananjaya Chauhan	Assistant Professor	Civil Engineering	Raj Kumar Goel Institute of Technology
14.	Kokkerala Venkata Manoj Kumar	Student	Civil Engineering	Rise Krishna Sai Prakasam group of institutions
15.	A. Rajaram	Assistant professor	Other	Thiru Kolanjiappar Govt Arts College
16.	Lovepreet Singh	Student	Other	Baba farid college bathinda
17.	P.Jagadeeswaran	ASSISTANT PROFESSOR	Mechanical Engineering	SENGUNTHAR ENGINEERING COLLEGE
18.	Shaffali Joshi	Assistant professor	Other	Chitkara University
19.	Mehakdeep Singh	Other	Other	Baba Farid College, Bathinda
20.	Subhadip Sarkar	Assistant professor	Civil Engineering	SEACOM SKILLS UNIVERSITY
21.	Kinneara Vasantha Lakshmi	STUDENT	Civil Engineering	RISE KRISHNA SAI PRAKASAM GROUP of INSTITUTIONAL
22.	Ashok Bairagi	Assistant Professor	Other	S.S.N.U. Govt. College, Garoth 458880(M.P.)
23.	Sunil Kulkarni	Assistant Professor	Civil Engineering	Walchand Institute of Technology
24.	Nithyambigai G	Assistant Professor	Civil Engineering	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
25.	Saseetharan D	Assistant Professor	Civil Engineering	K RAMAKRISHNAN COLLEGE OF TECHNOLOGY
26.	Rohan Kumar Sahani	Student	Civil Engineering	North Eastern Regional Institute of Science and Technology
27.	Nirupom Malakar	Assistant Professor	Other	Gurucharan College, Silchar, Assam
28.	Boggarapu Chakradhar	Student	Civil Engineering	Rise krishna Sai Prakasam
29.	Vikas Gautam	Research Scholar	Other	University of Lucknow
30.		Associate Professor &	Computer Science and	Sri Sai College of Engineering &



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	Dinesh Kumar	Head	Engineering	Technology, Badhani Pathankot
31.	Sowmyashree T	Assistant professor	Civil Engineering	Presidency University
32.	Shailaja Sudhakar Dyawarkonda	Assistant professor	Civil Engineering	Walchand Institute of Technology, solapur
33.	J Anto	Assistant professor	Civil Engineering	K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY
34.	Jayavarapu Akhil Kumar	STUDENT	Civil Engineering	RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS
35.	Satish Sajja	Assistant Professor	Civil Engineering	Velagapudi Ramakrishna Siddhartha Engineering College
36.	Mazharoddin Nizamoddin	Assistant professor	Chemistry	DCS'S A.R.A COLLEGE OF PHARMACY NAGAON DHULE
37.	Arun Prasath T	Assistant professor	Civil Engineering	K Ramakrishnan college of Technology
38.	S.Sujatha	Professor	Civil Engineering	K.Ramakrishnan college of technology
39.	R. Devananth	Assistant Professor	Civil Engineering	K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY
40.	Rashmi T V	Assistant Professor	Computer Science and Engineering	EastPoint College of Engineering and Technology
41.	Bandaru Mary Devika	ASSISTANT PROFESSOR	Civil Engineering	VISHNU INSTITUTE OF TECHNOLOGY
42.	A.Manoharan	Assistant Professor	Other	GANADIPATHY TULSI'S JAIN ENGINEERING COLLEGE
43.	Manoj Kumar	H.M.	Other	P.S. MAJHIYAR
44.	Rajinder Kumar	Assistant Professor	Computer Science and Engineering	Punjabi university Regional Centre for Information Technology and Management, Mohali
45.	Tejaswini Sayaji Mathane	PG Student	Civil Engineering	Walchand College of Engineering Sangli
46.	Sri Ram Krishna Mishra	Professor and Dean Administration	Civil Engineering	Bhilai institute of technology Raipur
47.	Praveen Jyoti	Assistant Professor	Civil Engineering	Tontadarya College of Engineering
48.	Chakka Bhargav Sai Eswar	Student	Civil Engineering	Rise Krishna Sai prakasam group of institutions
49.			Electronics and	



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	Mridul Chawla	Associate Professor	Communication Engineering	DCRUST Murthal
50.	Dillip Khamari	Associate professor	Electrical Engineering	Vikash Institute of Technology Bargarh
51.	Suma Gurulingaiah	Assistant Professor	Electronics and Communication Engineering	Proudhadevaraya Institute of technology, Hospet
	Charantimath		Engineering	
52.	Kanda Venkatesh	UG STUDENT	Civil Engineering	RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS
53.	S. B. Anadinni	Professor and Head	Civil Engineering	Presidency University
54.	Devjani Adhikari	Assistant Professor	Chemistry	Laxman Singh Mahar Government Post Graduate College Pithoragarh
55.	Yannam Ananthareddy	Faculty	Civil Engineering	Rise Krishna Sai Polytechnic College
56.	P. Prabhuteja	Student	Civil Engineering	Rise krishna sai Prakasam group of institutions
57.	Seema Chawla	Assistant Professor	Other	DCRUST Murthal
58.	Simanta Taid	Ph.D Research Scholars	Other	Forestry
59.	Ahamed Sharif	Assistant professor	Civil Engineering	Presidency University
60.	Sharma Pushpa Kumari	Assistant Professor	Civil Engineering	Vignana Bharathi Institute of Technology
61.	Sushil Kumar Singh	Director	Electrical Engineering	S.J.R.College of Engg. & Technology, Bareilly
62.	Koppolu Ramesh	Lelab technician	Other	Rise Krishna Sai Gandhi group of institution
63.	Charanjeet Madan	Assistant Professor	Electrical Engineering	Hindu College of Engineering, Sonapat
64.	Sk Baji Babu	LAB TECHNICIAN	Civil Engineering	RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS
65.	Shilpi	Assistant Professor	Electrical Engineering	Hindu College Of Engineering
66.	P.Raviteja	Faculty	Civil Engineering	Rise krishna sai polytechnic college
67.	Monika Dagliya	Asst professor	Civil Engineering	Prestige Institute of Engineering Management and Research Indore



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			g	
68.	Ravi S M	Assistant Professor	Mechanical Engineerin g	SRINIVAS INSTITUTE OF TECHNOLOGY
69.	Poonam Shakya	Headmistress	Chemistry	P.S.Gharbata 2
70.	Vijay Singh	Assistant Professor	Electronics and Communic ation Engineerin g	SCRIET CCS UNIVERSITY CAMPUS MEERUT UP INDIA
71.	Kelavath Sandhya Rani Bai	Student	Civil Engineerin g	RISE KRISHNA SAI PRAKASAM GROUP OF INSTUTION
72.	Varinder Makkar	Asst.Prof.	Other	Govt. Brijindra college Faridkot
73.	Vishwanath Hugar	Assistant Professor	Civil Engineerin g	Tontadarya college of Engineering Gadag
74.	Vidhi Grover	LECTURER	Chemistry	SETH JAI PARKASH POLYTECHNIC DAMLA
75.	Saikumar Bheemavarapu	Student	Civil Engineerin g	RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS
76.	K Mounika	Assistant Professor	Civil Engineerin g	Rise Krishna Sai Ghandi Group of Institutions
77.	Ramesh Jangir	Assistant Professor	Electronics and Communic ation Engineerin g	B K Birla Institute of Engineering & Technology, Pilani
78.	Pavani Ogirala	Asst proffer	Civil Engineerin g	Rise Krishna sai Gandhi group of institutions
79.	Manpreet Kaur	Assistant Professor	Electronics and Communic ation Engineerin g	Yadavindra College of Engineering, Talwandi Sabo
80.	Srivalli Gaddam	Student	Civil Engineerin g	RISE Krishna Sai Prakasam Group of Institutions
81.	Kartheek Babu	Assistant professor	Civil Engineerin g	RISE Krishana Sai prakasam group of institutions
82.	Denis Jangeed	Assistant Professor	Civil Engineerin g	Geetanjali Institute of Technical Studies Udaipur Rajasthan
83.	Seema Agnihotri	Assistant Teacher	Other	P.S.Ajeezganj-1, Dadroul, Shahjahanpur



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84.	Nareshkumar A. Parmar	Assistant Professor	Computer Science and Engineering	Shree K.R.Anjana Arts and Commerce College Dhanera
85.	Hilay N. Prajapati	Assistant Professor	Civil Engineering	R.N.G.Patel Institute of Technology, Bardoli
86.	Jitendra Sharma	Assistant Professor	Computer Science and Engineering	Geetanjali Institute of Technical Studies
87.	Bibhabasu Mohanty	Assistant Professor	Civil Engineering	SAL Institute of Technology and Engineering Research
88.	Avinash Yadav	SPORTS OFFICER	Other	GOVT. COLLEGE DHARAMPURI, DHAR (M.P.)
89.	A Rajendran	Professor	Electronics and Communication Engineering	Karpagam College of Engineering
90.	Rakesh Chandra Joshi	Assistant Professor	Computer Science and Engineering	Centre for Advanced Studies, Lucknow
91.	Jayachitra	Assistant Professor	Electronics and Communication Engineering	Karpagam Academy of Higher Education
92.	Karandeep Singh	ASSISTANT PROFESSOR	Electronics and Communication Engineering	BABA FARID COLLEGE OF ENGINEERING & TECHNOLOGY, BATHINDA
93.	Sangeetha	Lecturer	Civil Engineering	Presidency university
94.	Sura Narayana Reddt	Assistant professor	Civil Engineering	Dr.K.V.Subba Reddy Institute Of Technology
95.	Aman Bathla	Assistant Professor	Civil Engineering	Geeta Engineering College
96.	Rashidul Alam	Research Scholar	Civil Engineering	NERIST
97.	R Selva Kumar	Assistant Professor	Chemistry	Mahendra Arts and Science College
98.	Rajat Kumar Dwivedi	Lecturer	Civil Engineering	Presidency University
99.	Bandipally Sandeep	Assistant Professor	Civil Engineering	ACE Engineering College



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100.	Rachana Pathak	ASSISTANA TEACHER	Other	COMPOSITE SCHOOL, MUHKUCHWAN
101.	Ram Chandra Barik	Associate Professor	Computer Science and Engineering	Vikash Institute of Technology
102.	Nitish Kumar	LAB INSTRUCTOR	Civil Engineering	PRESIDENCY UNIVERSITY
103.	Dayalan J	Assistant Professor	Civil Engineering	Presidency University Bangalore
104.	Gurjant Singh	Assistant Professor	Mechanical Engineering	Baba Farid College of Engineering and Technology
105.	Ravi.R.Argekar	Assistant Project Manager	Civil Engineering	BVB college of Engineering Hubli
106.	Sumant Mandar Mukundrav	Assistant Professor	Mechanical Engineering	Babaria Institute of Technology
107.	Popatrao P Jadhav	Sr.LCE	Civil Engineering	Pimpri Chinchwad Polytechnic Pune 44
108.	Bokka Durga Vara Prasad	Assistant Professor	Civil Engineering	Vishnu Institute of Technology, Bhimavaram
109.	Shashikant Buvasaheb Gosavi	Assistant Professor	Civil Engineering	Walchand Institute of Technology Solapur
110.	Piyush Vishwakarma	ASSOCIATE PROFESSOR	Other	LINGAYA'S VIDYAPEETH, DELHI- NCR
111.	Kishor Naskar	Assistant Professor	Other	Budge Budge College
112.	Satyanarayan Tiwari	Student	Other	Mahatma Gandhi Chitrakoot Gramoday vishvadalaya chitrakoot Satna M.P 485334
113.	Rajan Vinayak	Assistant Professor	Civil Engineering	Baba Farid College of Engineering and Technology, Bathinda
114.	Anil S Naik	Assistant Professor	Computer Science and Engineering	Walchand Institute of Technology, Solapur
115.	Sandeep Kumar Singh	Teacher	Other	UPS GANGRAUL
116.	Rahul Prakash	Assistant Professor	Other	Sir Chhotu Ram Institute of Engineering And Technology, Meerut
117.	Hari Kamala Sree	ASSOC PROFESSOR	Other	MLR INSTITUTE OF TECHNOLOGY
118.	Nakul Ramanna	Associate Professor	Civil Engineering	Presidency University



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119.	V. Sabitha	Associate Professor	Electronics and Communication Engineering	Vaagdevi College Of Engineering
120.	Hardeep Singh	Assistant Professor	Electronics and Communication Engineering	Baba Farid College of Engineering and Technology, Bathinda
121.	Sandeep Sharma	Professor	Mechanical Engineering	Desh Bhagat University
122.	Yogesh Kumar	ASSISTANT PROF.	Mechanical Engineering	S C R I E T, C C S UNIVERSITY, MEERUT
123.	Manpreet Singh	Student	Other	Baba Farid Group of Institutions, Bathinda
124.	Shaik Hussain Vali	Assistant Professor	Electrical Engineering	JNTUA College of Engineering Pulivendula
125.	Vineeta Singh	Assistant teacher	Other	JHS NAWADA RASOOLPUR SEC.62 NOIDA,GB NAGAR,UP
126.	Anjaneyulu Cherukuri	Assistant Professor	Chemistry	St. Ann's College of Engineering & Technology
127.	Goutham B M	Instructor	Civil Engineering	Presidency University
128.	Gurinder Kaur	Assistant Professor	Electronics and	Desh Bhagat University ,
	Sodhi		Communication Engineering	Mandigobindgarh
129.	Archana Singh	A.T.	Other	COMPOSITE SCHOOL MUHKUCHWA
130.	Navjot Singh	ASSISTANT PROFESSOR	Computer Science and Engineering	BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY, BATHINDA
131.	Gopalakrishnan N	Assistant Professor	Civil Engineering	Presidency University, Bangalore
132.	C. Srinivas Gupta	Professor	Civil Engineering	Mallareddy Engineering College (A)
133.	Vijay Dwivedi	Lecturer	Other	GHSS DANDAPUR, DEHRADUN, UTTARAKHAND
134.	Hemant Anandrao Jagtap	Assistant Prof.	Civil Engineering	Shatabdi Institute of Engineering and Research, Agaskhind Nashik
135.	Pritam Avinash Shete	Assistant Professor	Chemistry	R.N.C. Arts, J.D.B. Commerce & N.S.C. Science College, Nashik
136.	Kaneez Fatima	Lab. Assistant	Civil Engineering	Deccan College of Engineering and Technology



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137.	Priyajit Ray	Research Scholar	Other	University of Calcutta
138.	Dharani Devi P	ASSISTANT PROFESSOR	Electronics and Communication Engineering	IFET COLLEGE OF ENGINEERING
139.	A.Ravi Kumar	Assistant Professor	Other	Sreenidhi Institute of Science and Technology
140.	Harsimran Singh	Assistant Professor	Electrical Engineering	BABA FARID COLLEGE OF ENGG & TECHNOLOGY
141.	Yagneshkumar Dineshbhai Patel	LECTURER	Electrical Engineering	N.G.PATEL POLYTECHNIC
142.	Avneet Kaur	Assistant Professor	Civil Engineering	Guru Nanak Dev Engineering college
143.	Jesslyn Sukamto	Student	Chemistry	Shanghai Jiao Tong University
144.	Sonia	ASSISTANT TEACHER	Other	UPS NAWADA ASHRAFPUR, BLOCK SINDHAULI, SHAHJAHANPUR, UP
145.	Surendra Singh	ASSISTANT TEACHER	Other	BASIC EDUCATION DEPARTMENT, SHAHJAHANPUR (UP)
146.	M.Nithya	ASSOCIATE PROFESSOR	Civil Engineering	CMR INSTITUTE OF TECHNOLOGY
147.	Varsha Choudhary	Assistant professor	Other	BIT
148.	Gurmanjot Singh	Lecturer	Civil Engineering	Regional polytechnic college bathinda
149.	Pooja Rani Kuri	Research Scholar	Other	Indian Institute of Technology Guwahati
150.	Vilas Umarash Kale	Cluster Head	Other	Cluster Head Aran Tal Madha Dist Solapur
151.	Rajesh Tryambakrao Aghao	Sr. Lecturer in Applied Mechanics	Other	Government Polytechnic Aurangabad MS
152.	Ankita Pandey	Assistant professor	Computer Science and Engineering	Govt. V. Y. T. P. G. Autonomous college, Durg
153.	Pritam Hulke	Student	Civil Engineering	Government college of engineering chandrapur
154.	Okoh Elechi	Lecturer	Chemistry	Federal Polytechnic Ekowe, Nigeria
155.	Aparna Thakur	AP	Chemistry	Dr KN Modi University Newai



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156.	Princy Sunil	Assistant Professor	Other	Velammal Engineering College
157.	Karan Bhalla	ASSISTANT PROFESSOR	Chemistry	GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
158.	Divya Sharma	Assistant professor	Other	SCRIET
159.	Samta Deshpande	Associate Professor	Chemistry	SSTC-SSGI
160.	Supriya Sivapuja	ASSISTANT PROFESSOR	Computer Science and Engineering	RSR ENGINEERING COLLEGE
161.	Manpreet Kaur Verma	Assistant professor	Chemistry	Desh bhagat university
162.	Monica Goyal	Assistant Professor	Computer Science and Engineering	University College of Ghudda
163.	Uppala Vijay Kumar	Assistant Professor	Computer Science and Engineering	QIS Institute of Technology
164.	Ramandeep Chahal	Assistant Professor	Computer Science and Engineering	BFCET
165.	Lakshmi Sharma K M	Assistant professor	Computer Science and Engineering	INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
166.	Robert Ravi	Professor	Civil Engineering	ACE ENGINEERING COLLEGE HYDERABAD
167.	Alladi Rakesh	STUDENT	Civil Engineering	VAAGDEVI COLLEGE OF ENGINEERING
168.	A. John Sanjeev Kumar	Assistant professor	Other	The American College, Madurai
169.	Mandeep Kaur Hunjan	Assistant Professor	Civil Engineering	Guru Nanak Dev Engineering College, Ludhiana
170.	Vitthal V. Parab	ASSOCIATE PROFESSOR & HEAD, DEPARTMENT OF ENGLISH	Other	K.M.AGRAWAL COLLEGE, KALYAN (UNIVERSITY OF MUMBAI)
171.	Harpatap Singh	Assistant Professor	Civil Engineering	Baba Farid college of Engineering and Technology, Bathinda, Punjab
172.	Divya Gupta	Assistant Professor	Computer Science and Engineering	Chitkara University
173.	Kavita Pandey	Assistant Professor	Computer Science and Engineering	Jaypee Institute of Information Technology, Noida
174.	Kavneet Kaur	Assistant Professor	Electronics and Communication Engineering	Khalsa College of Engineering and Technology, Amritsar



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175.	Madhurima Tiwari	head teacher	Other	p.s.azizganj1, block-dadraul,block-dadraul,district-shahjahanpur
176.	V.Raghasuma	Lecturer	Chemistry	GDC(W)A,Begumpet,Hyderabad
177.	K. Mohan	Ex. Director General	Chemistry	National Council for Cement and Building Materials
178.	Ghodke Mangesh S	Asst. Professor	Chemistry	R. C. Patel Institute of Pharmaceutical Education and Research
179.	Vaishali Chormare	Lecturer	Electrical Engineering	Sanjivani K.B.P Polytechnic
180.	T Vamsi	Assistant Professor	Civil Engineering	B V RAJU INSTITUTE OF TECHNOLOGY, NARSAPUR
181.	Lokesh Kumar Ranjan	Assistant Prkfessor	Mechanical Engineering	AKU patna
182.	Harmish Bhatt	Assistant professor	Mechanical Engineering	Chandubhai S Patel Institute of Technology,CHARUSAT,Changa.
183.	Ramandeep Singh	Student	Computer Science and Engineering	Baba Farid College
184.	Rasmita Lenka	Asst.professor	Electronics and Communication Engineering	Radhakrishna Institute of Technology and engineering
185.	Parthiban D	ASSISTANT PROFESSOR	Civil Engineering	AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY CHENNAI
186.	Gurjot Kaur	Assistant Professor	Computer Science and Engineering	Akal Group of Technical and Management Institutions Mastuana Sahib
187.	Mukul Kumar Kashyap	Good	Civil Engineering	Galgotias university
188.	Avudurthi Saikiran	ASSISTANT PROFESSOR	Computer Science and Engineering	VAAGESWARI COLLEGE OF ENGINEERING
189.	Bernard Oruabena	Lecturer	Civil Engineering	Federal Polytechnic Ekowe
190.	Romen Chakma	Visiting Lecturer	Civil Engineering	TTAADC Polytechnic Institute
191.	Ritesh Ghosh	Student	Civil Engineering	Seacom skills University
192.	Shivaraj G Teggi	Assistant Professor	Civil Engineering	Sanjivani college of engineering Kopargaon



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193.	Bhim Sain Singla	Assistant Professor	Computer Science and Engineering	College of Engineering and management, Punjabi University Neighbourhood Campus, Rampura Phul
194.	Dr Deepali Gupta	Physiotherapist	Other	Bundelkhand University
195.	Nunna Karanthi Rekha	Assistant professor	Civil Engineering	SRK INSTITUTE of TECHNOLOGY
196.	Siva Kumar. B	PG STUDENT	Civil Engineering	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY
197.	T Kranthi Kumar	Assistant professor	Chemistry	Sreenidhi institute of science and technology
198.	G. V. Rama Subba Rao	Associate Professor	Civil Engineering	Velagapudi Ramakrishna Siddhartha Engineering College
199.	T. Lalitha Kumari	Lecturer in Computer Science	Computer Science and Engineering	Govt. Degree & PG College - Bhadrachalam
200.	Mousumi Mondal	Freelancer	Other	Bong Eduhub
201.	Mohammed Mansoor Ahmed	ASSISTANT PROFESSOR	Civil Engineering	KHAJA BANDA NAWAZ COLLEGE OF ENGINEERING
202.	Labh Singh	FIE Institution of Engineers India	Computer Science and Engineering	IEI Chandigarh
203.	Dipankar Sutradhar	Assistant Professor	Other	Central Institute of Technology Kokrajhar
204.	Anusuri Uma Maheswari	Assistant Professor	Civil Engineering	Chaitanya Engineering College
205.	Yeruva Tirumala	STUDENT	Civil Engineering	VRSEC VIJAYAWADA
206.	Gaurav Kumar	Assistant Professor	Mechanical Engineering	Baba Farid College of Engineering & Technology, Bathinda
207.	Ritu	Assistant Professor	Other	Desh Bhagat University
208.	Palli Praveen Kumar	assistant professor	Civil Engineering	Guru Nanak institute of technology
209.	Sukhdeep Kaur	Student	Other	BFC
210.	Shaily Agarwal	TEACHER	Other	UPS RAGHAVPUR SIKANDARPUR
211.	Kamal Deep Garg	Assistant Professor	Computer Science and Engineering	CHITKARA UNIVERSITY
212.	Pokuri Chaitanya	Assistant professor	Civil Engineering	GURU NANAK INSTITUTE OF TECHNOLOGY
213.	Rahul Walmik Patil	Lecturer in English	Other	Government Polytechnic, Khamgaon



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214.	Sudha Devi, M.	Assistant Professor	Other	Avinashilingam Institute for Home Science and Higher Education for Women
215.	Vikas Misra	Professor	Mechanical Engineering	Geetanjali Institute of Technical Studies Udaipur
216.	Jashandeep Kaur	Assistant Professor	Computer Science and Engineering	AKAL GROUP OF TECHNICAL AND MANAGEMENT INSTITUTIONS MASTUANA SAHIB SANGRUR
217.	Inderjit Kaur	Assistant Professor	Computer Science and Engineering	Akal group of Technical and Management Institutions Mastuana Sahib
218.	Neelu Das	Assistant Professor	Civil Engineering	Central Institute of Technology Kokrajhar
219.	Chiranjeevi Rahul Rollakanti	Senior Lecturer	Civil Engineering	Middle East College, Muscat, Oman.
220.	Rashmi B Shankargouda	Assistant Professor	Civil Engineering	K.I.T's College of Engineering
221.	Kalpana Patel	Assistant Professor	Civil Engineering	Faculty of Engineering and Technology University of Lucknow
222.	Navneet Kaur	Research Scholar	Electronics and Communication Engineering	Punjabi University Patiala
223.	Prashanna R P	Student	Other	Karpagam Academy of Higher education
224.	Shaik. Nagulmeeravali	Assistant Professor	Electrical Engineering	Prakasam Engineering College
225.	Meena Bhatia	Assistant Teacher	Other	P.S Dadha
226.	Janardhan Reddy Guddeti	Assistant professor	Civil Engineering	Guru Nanak institute of technology
227.	Sandeep Sangwan	Lecturer	Chemistry	GSSS Raison
228.	Rakesh Verma	Assistant professor	Civil Engineering	SVITS SVVV
229.	Misira Parbin	Assistant professor	Other	Kharupetia college
230.	Naga Seshu Babu Tummala	Assistant Professor	Civil Engineering	SRI VASAVI ENGINEERING COLLEGE, TADEPALLIGUDEM
231.	Ashokram.S	Assistant Professor	Civil Engineering	Vel Tech High Tech Engineering College



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232.	Debbie Lourdes D'sa	Student	Other	Nirmala Institute of Education
233.	Praveen Jyoti	Assistant Professor	Civil Engineerin g	Tontadarya College of ENgineering, Gadag
234.	Neeraj Kumar Singh	ASSISTANT PROFESSOR	Electronics and Communic ation Engineerin g	Rajshree Institute of Management and Technology



## Staff Development Program

On

## Human Values and Professional Ethics

22<sup>nd</sup> – 26<sup>th</sup> Feb 2021

Five days Staff Development Programme on “Human Values and Professional Ethics” was organized by Baba Farid College of Engineering & Technology, Bathinda from 22th to 26th February 2021. 14 Staff members participated in this Staff Development Programme. The main topics discussed in this programme were concerned with various aspects of Human Values and Professional Ethics like Concept of Value Education, Importance of Self-Exploration, Relation between Human Body and Human Mind, Harmony in Human Body and Human Mind, Harmony in Family, Harmony in Society, Harmony in Nature, and Importance of Human Values in Profession. Our students should become efficient and capable engineers as well as good human-beings. For this, the staff should not only impart science and technology, but also cultivate human values and professional ethics among them. To become fully capable to play this role, the staff must be aware about various aspects of human values and professional ethics, and they should become capable to cultivate these aspects among the students and take initiative to do so. For this purpose, this program for the staff was organized.

### Day 1: Monday, February 22, 2021

#### Resource Persons

1. Mr. B.D. Sharma
2. Ms. Sejal Kataria

**Session 1<sup>st</sup>** : Dr. Jyoti Bansal (Principle, BFCET) delivered welcome speech to all the staff members and briefed about “Importance of Human Values in Technical Education”. During the inaugural session, Er. Kovid Sharma (Coordinator, SDP) projected the importance of Professional Ethics.

**Sessions 2<sup>nd</sup> and 3<sup>rd</sup>**: Mr. B.D. Sharma, discussed the aspects of Importance of Self-Exploration. He discussed the implications of these aspects in the teaching profession.

**Session 4<sup>th</sup>**: Ms. Sejal Kataria, delivered a talk on relation between Human Body and Human Mind and related these aspects in our practice.



## Day 2: Tuesday, February 23, 2021

### Resource Persons

1. Er. Kovid Sharma
2. Ms. Sejal Kataria

**Session 1<sup>st</sup> and 2<sup>nd</sup>:** Er. Kovid Sharma in this session discussed importance of Harmony in Human Body and Human, and how this is needed to have the required efficiency.

**Session 3<sup>rd</sup> and 4<sup>th</sup>:** Ms. Sejal Kataria discussed the aspect of Harmony in Family. She also related this aspect to become motivated to do hard and consistent work in all walks of life.

## Day 3: Wednesday, February 24, 2021

### Resource Persons

1. Er. Ashu Bansal
2. Mr. B.D. Sharma

**Session 1<sup>st</sup> and 2<sup>nd</sup>:** Er. Ashu Bansal, put forward his views on the aspect of requirement of Harmony in Society. He stressed that with harmony in society there would be peace in society which is needed for overall development of society.

**Session 3<sup>rd</sup> and 4<sup>th</sup>:** Mr. B.D. Sharma, gave his views concerning the aspect of Harmony in Nature. He stressed that with Harmony in Nature; there would be the judicious use of national resources, which is a must for sustainable development of economy and the society.

## Day 4: Thursday, February 25, 2021

### Resource Persons

1. Er. Kovid Sharma
2. Er. Ashu Bansal

**Session 1<sup>st</sup> and 2<sup>nd</sup>:** Er. Kovid Sharma discussed the topic of Importance of Human Values in Profession. He stressed that if a person is leading a value-based life, then it must reflect in the professional life of that person.



**Session 3<sup>rd</sup> and 4<sup>th</sup>:** Er. Ashu Bansal shared his views concerning Various Aspects of Profession Ethics. He stressed the point that these aspects collectively constitute the concept of Professional Ethics. So, all these aspects must be adhered to while working in our profession.

**Day 5: Friday, February 26, 2021**

## **Resource Persons**

1. Mr. Pardeep Kaura
2. Dr. Nimisha Singh

**Session 1<sup>st</sup> and 2<sup>nd</sup>:** Mr. Pardeep Kaura discussed the aspect of Relation Between Personal-life and Professional- life. He elaborated that there must conformity among these two. A person should not be a split- personality.

**Session 3<sup>rd</sup>:** Dr. Nimisha Singh organized the Group Discussion on whole of theme of Human Values and Professional Ethics. This was very valuable discussion, and all the teachers actively participated in this.

**Session 4<sup>th</sup> (Valedictory Session):** In valedictory Session Er. Jyoti Bansal gave valuable and practical points to lead a value-based life. The participants gave feedback on all the discussions in the program. All the staff members were of the view that such more programs should be organized in the future.



**Staff Development Programme on Human Values & Professional Ethics  
dated 22.02 2021**



**Staff Development Programme on Human Values & Professional Ethics  
dated 26.02 2021**



## List of Staff Members

S.No.	Name of Staff	Designation
1	Rakesh Kumar	Lab Instructor
2	Harjeet Singh	Office Assistant
3	Sandeep Singh	Lab Instructor
4	Jaswant Singh	Lab Instructor
5	Rajpal Kaur	Office Assistant
6	Lakhwinder Singh	Lab Instructor
7	Indraj Kumar	Lab Instructor
8	Sandeep Singh	Superintendent
9	Rupinder Kaur	Suprintendent
10	Lakhwinder Kaur	Sr. Asstt. Librarian
11	Geeta Rani	Library Astd.
12	Baljeet Rupal	Lab Technician
13	Gagandeep Singh	Lab Instructor
14	Sukhraj Singh	Asstt Supdt.