



## **Report on**

### **Workshop on Python Programming and its use for assistance in research**

**Date of workshop:** 05-04-2019

**Number of students Participated:** 46

**Name of Resource Person:** Mr. Tanay, DUCAT, Noida

The Department of Computer Science and Engineering, Baba Farid College of Engineering & Technology in collaboration with Baba Farid School of Entrepreneurship organized a workshop on Python Programming and its use for assistance in Research. This workshop was successfully organized in association with DUCAT, Noida. Mr. Tanay from DUCAT, Noida was the resource person in this workshop. The workshop focused on Python introduction, save scripts, data types, data structure, control flow, modules, functions, and exceptions. It aimed to enhance engineering students' knowledge about the major research tools used in Python like SciPy, Mlpy, and Numpy. Mr. Tanay shared his views on how nowadays python programming is used for research in the form of logic algorithms. Lastly, there was a Thanksgiving moment where Er. Ramil Gupta gave a special thanks to the expert. He also paid a token of remembrance to the expert. The expert gave a web link to the students and his email ID to discuss the doubts anytime and consult him for future guidance.



Glimpses of Workshop on Python Programming and its use for Assistance in Research



### Report on

#### **International Conference on Intelligent Machines (ICIM 19)**

Two days International Conference on "Intelligent Machines" (ICIM 19) was organized by Baba Farid College of Engineering & Technology, Bathinda in technical collaboration with IETE and Springer during 15th-16th March 2019. The International conference was sponsored by Council of Scientific & Industrial Research (CSIR), The Indian Society for Technical Education (ISTE) and Maharaja Ranjit Singh Punjab Technical University (MRSPTU), Bathinda. The main objective of the conference was to provide international platform to share the new advancements and innovations in the Artificial Intelligence (AI), Robotics and Internet of Things (IoT). The three tracks of the conference covered the latest technologies being used worldwide in the 21st century and Industry 4.0. ICIMs 19 provided a spectrum of opportunity to share new concepts amongst the technologist, industrialists, researchers and students (from research areas of AI, Robotics and IoT).

Prof. Pardeep Kaura, Deputy Director, Academics, Baba Farid group of Institutes (BFGI) welcomed all renowned guests and dignitaries during the inauguration of the conference. Dr. P K Khosla, Executive Director, C-DAC Mohali, India was the chief guest. He shared his ideas on innovation and knowledge clusters and also described the importance of AI which is a mean of perceiving, learning and problem solving. He gave a brief out of various projects going on in CDAC Mohali. He described the importance of different AI algorithms.

In the plenary session, Dr. Valentina E. Balas, Professor, Automation & Applied Informatics, University of Arad, Romania delivered a keynote address. She gave an outstanding talk on quantum computing. Dr. Narendra S. Chaudhary, Professor, IIT Indore shared his views on the IT revolution in the world and he added that India is leading in the field of information technology because of the contribution of young minds. He discussed how IoT has changed our life and also described its importance in health care, agriculture, education and disaster management. Finally he shared how intelligent algorithms can control the robots. Dr. Mamta Mittal, Associate Professor, G B Pant Government Engineering College, New Delhi, another speaker, discussed the present technical education scenario and laid emphasis on providing practical exposure to students rather than concentration on theoretical knowledge.



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Prof. (Dr.) Jasbir Singh Hundal, Registrar MRSPTU, Bathinda was the Chief Guest of the Valedictory Ceremony while Dr. Valentina E. Balas, Professor, Automation & Applied Informatics, University of Arad, Romania was the Guest of Honour. Principal BFCET, Dr. Manish Goyal welcomed all the dignitaries at the valedictory ceremony. He shared that BFGI always believes in imparting core values of technical education and skills by focusing on bridging the gap between knowledge based education to competency based education. He said that BFGI has launched the concept of University 4.0 through which we envisage to shift the focus of teaching- learning from teacher centered to learner centered learning.

Convener of Conference, Dr. Tejinder Pal Singh Sarao read the report of the conference and congratulated everyone for making it a successful conference. He said that, “We received 296 research papers from within India & abroad out of these 116 papers were selected for presentations. During 2 days the conference witnessed 10 technical sessions. Large number of delegates from IITs, NITs and other esteemed universities and institutions across India participated with full zeal and enthusiasm. He acknowledged the important contributions of all conference participants and thanked all speakers for sparing their time and effort they took to share their expertise with the audience in conference.

Prof. Jasbir Singh Hundal shared that, “I feel glad to be invited by BFGI at this grand event as I like all the efforts made by this institution to stand up on global standards.” He congratulated BFCET for organizing such a productive and knowledgeable conference. He shared his views about the importance of research & development. He discussed new areas in which we should research. He stressed that jobs are available but students lack desired skills leading to unemployability. So, educational institutes should work on the track of producing skilled manpower by imparting quality education to them which is directly or indirectly related with research & development. He shared the importance of publications, projects, patents, and citations. He wished & congratulated BFCET for the grand success of the conference.

On this occasion, students of BFCET also organized cultural events for the entertainment of the delegates. Management of BFGI honored the Chief Guest & other dignitaries of the event. Dr. Jayoti Bansal, Vice Principal, BFCET delivered ‘Vote of Thanks’ & thanked all the dignitaries, participants and the organizing team. Finally the conference winded up by honoring the delegates for spending their precious time and sharing the knowledge and experience with participants.

Dr. Gurmeet Singh Dhaliwal, Chairman BFGI congratulated the entire Team of BFCET for the successful organization of the international Conference.



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Glimpses of International Conference on Intelligent Machines



Glimpses of International Conference on Intelligent Machines



**Report on  
Workshop on Awareness of Intellectual Property Rights**

**Date of Seminar:** 19-09-2018

**Number of students Participated:** 39

**Name of Contact Person from Industry:** Mr. Vineet Tawra, CETPA INFOTECH PVT. LTD., Noida

The Department of Computer Science and Engineering, Baba Farid College of Engineering and Technology with the collaboration of Baba Farid School of Entrepreneurship organized a workshop on Awareness of Intellectual Property Rights. This workshop was successfully organized in association with CETPA, Noida. Mr. Vineet Tawra, CETPA was the resource person. Mr. Vineet Tawra, CETPA started the session and explained all the fundamental aspects of intellectual property rights and the need for IPR in the current scenario. This workshop on IPR met its entire desired objectives and participants understood the role of intellectual property right in their careers. The power to evolve innovations and thinking in an innovative manner in an organization can be increased by means of creating Intellectual Property (IP) awareness amongst its employees and students, who are directly or indirectly involved in the process of innovation. The session ended with a vote of thanks by Er. Ramil Gupta in appreciation to Mr. Vineet Tawra for giving his time to educate the faculty members and students on the role of intellectual property rights.



Glimpse of Workshop on Awareness of Intellectual Property Rights



**Report on  
Workshop on iCAN-Ideation Contest for Budding Entrepreneurs**

**Date of Workshop:** 12-11-2018-13-11-2018

**Number of students participated:** 37

**Name of Resource Persons:** Mr. Ajay Godara, founder and CEO of ENOVATE SKILL Chandigarh

Er. Amardev, Assistant Professor, National Institute of Technical Teachers Training and Research, Chandigarh

Mr. Ashish Bansal, Manager, Punjab and Sind Bank, Goniana Mandi, Bathinda

Er. Gurvinder Singh, Head School of Skill Development, New Delhi

To bring fresh ideas to the fore, Baba Farid College of Engineering and Technology, Bathinda organized iCAN-Ideation contest on the 12<sup>th</sup> & 13<sup>th</sup> of November 2018. In this event, students came up with innovative solutions that use the latest advanced analytical technologies to improve efficiencies and enable a business to achieve more in less time. In total, more than 50 teams from BFGI and 37 students from BFCET participated in this event.

Students were asked to give their Business Idea on a simple page (handwritten or typed) covering the Problem trying to solve; briefly describe the Business Idea/Solution; Market Analysis, and Action Plan for piloting their Idea and Financial Viability & Feasibility of the Idea. All experts appreciated the efforts of the Institute and promised to provide all types of help from Management for these types of events. Dr. Manish Gupta proposed the Vote of Thanks and ensured all the teams' full support and hand-holding from the School of Entrepreneurship.



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Glimpses of iCAN-Ideation Contest





## BABA FARID COLLEGE OF ENGG. & TECHNOLOGY



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Ref. No: - *BFUET/PA/ON/2018/281A*

Dated: 09.11.2018

### CIRCULAR

#### Workshop on iCAN-Ideation Contest for Budding Entrepreneurs

This is to inform you all that Baba Farid College of Engineering and Technology is organizing a Workshop on iCAN-Ideation Contest for Budding Entrepreneurs. Students and Faculty members of EE department can attend the workshop by getting their name registered with Er. Harsimran Singh.

The details of the program are as follows:

Date : 12.11.2018 to 13.11.2018  
Timing : 9:30 AM to 4:00 PM  
Venue : Seminar Hall, 2<sup>nd</sup> Floor, Innovation Center, BFGI  
Speaker : Mr. Ajay Godara, founder and CEO of ENOVATE SKILL  
Er Amardev, Assistant Professor, National Institute of Technical Teachers Training and Research, Chandigarh  
Mr. Ashish Bansal, Manager, Punjab and Sind Bank, Goniana Mandi, Bathinda  
Er Gurvinder Singh, Head School of Skill Development

Principal,  
BFCET, Bathinda.



**Report on**  
**Seminar on the Latest Developments & Trends in Civil**  
**Engineering**

**Date:** 17-04-2019

**No. of Students Participated:** 68

**Name of Resource Person:** Mr. Ravinder Singh, Coordinator Project-North Zone, Shapoorji Pallonji, Mumbai

Baba Farid College of Engineering and Technology with collaboration of Baba Farid School of Entrepreneurship organized a Seminar on “Latest Developments & Trends in Civil Engineering” for the students of the 6<sup>th</sup> semester in the conference hall of the college. Mr. Ravinder Singh Coordinator Project-North Zone, Shapoorji Pallonji was welcomed by Er. Tanu, Head of Civil Engineering Department. Mr. Ravinder Singh unfolded the seminar with today’s status of Civil Engineering. He shared that Civil engineering is one of the oldest branches of engineering that deals with the design and construction of buildings, roads, bridges, and other large-scale structures. He depicted some of the latest developments and smart and energy-efficient buildings.

Students were very curious and asked him about the latest techniques and practices to reduce construction and demolished waste and its management. Speaker replied to them in a very graceful manner and showed some videos in regard to waste management with the application of the latest development. Dr. Manish Goyal concluded the seminar by presenting a vote of thanks.



Glimpses of Seminar on the latest Developments & Trends in Civil Engineering



**Report on**  
**Seminar on CAD-CAM & CNC programming for Entrepreneurship**  
**Opportunities in Mechanical Industry**

**Date:** 25-04-2019

**Number of students Participated:** 37

**Name of Resource Person:** Er. Supreet Singh Panesar, Assistant Manager, R&D Center for Bicycle and Sewing Machines, Ludhiana

Department of Mechanical Engineering, Baba Farid College of Engineering and Technology organized a Seminar on “CAD-CAM & CNC” Programming for Entrepreneurship opportunities in Mechanical Industry. Event was organized by the Department of Mechanical Engineering for the 4<sup>th</sup> and 6<sup>th</sup> semester’s students. The sole purpose of the seminar was to educate the students on the latest CAD/CAM and Testing technologies, Prototyping, CNC Machines, and other CAD Tools and how all these may be helpful for a mechanical engineer to become an entrepreneur.

Er. Supreet Singh Panesar, Assistant Manager, R&D Center for Bicycle and Sewing Machines, Ludhiana (Under Punjab Govt. Project), was the Key-Note speaker of the seminar. He was welcomed by Dr. Manish Goyal, Principal, BFCET, Bathinda. The seminar started with a brief introduction to the basics of CAD-CAM and further utilization of the same along with its application. Er. Panesar discussed in detail about the significance of CAD/CAM & CNC technology and various important points for starting small scale Entrepreneurship ventures.



Glimpse of Seminar on CAD-CAM & CNC programming for Entrepreneurship  
Opportunities in Mechanical Industry



## **Report on**

### **Workshop on Research opportunities & Quality Assurance in Industry**

**Date:** 06-03-2019

**No. of Students Participated:** 27

**Name of Resource Person:** Er.Nilesh Kumar Sharma, Quality Assurance Engineer  
FOSS ANALYTICAL (DENMARK), Ludhiana

Department of Electronic and Communication Engineering, Baba Farid College of Engineering and Technology organized a workshop on Research opportunities & Quality Assurance in Industry by the Department of Electronics & Communication Engineering through the Baba Farid School of Entrepreneurship in the conference hall for the 4<sup>th</sup> & 6<sup>th</sup> semester's students. Er. Nilesh Kumar Sharma, working as a quality Engineer at Foss Analytical was the expert. Expert shared that the industries are going through multiple challenges such as identifying new and better revenue streams, coping with declining margins, the need to keep on innovating, and most importantly ensuring the availability of service all the time. At the completion of the workshop, students interacted with the speaker, and asked about the principle of quality and techniques of quality assurance. Er, Nilesh cleared students' doubts regarding the same by briefing the techniques of quality assurance adopted by industries. In the last vote of thanks was given by Er. Hardeep Singh,



Glimpse of Workshop on Research opportunities & Quality Assurance in Industry



**Report on**  
**Workshop on Tools for Research Management**

**Date of Workshop:** 15-10-2018

**Number of students participated:** 28

**Name of Resource Person:** Er. Avtar Singh Bhullar, Senior Design Engineer, CADD Centre, Bathinda

A workshop on the topic "Tools for Research Management" was organized by the Department of Mechanical Engineering, Baba Farid College of Engineering and Technology. Er. Avtar Singh Bhullar, Senior Design Engineer, CADD Centre, Bathinda was a resource person. Resource person discussed with the audience about the various reference management software such as Mendeley, and Zotero. He also enlightened the faculty members that how these reference management tools can help the researchers to speed up their research writing activities.

The Thank giving speech was given by Dr. Tejinder Pal Singh Sarao, HoD Mechanical Engg., BFCET. He also thanked the Faculty and students for their continuous attention toward the guest and for making this workshop a successful one.



Glimpse of Workshop on Tools for Research Management



## **Report on Workshop on Engineering and Entrepreneurship**

**Date of Seminar:** 12-10-2018

**Number of students participated:** 37

**Name of Resource Person:** Er. Avtar Singh Bhullar, Director, CADD Centre, Bathinda

Baba Farid College of Engineering and Technology in collaboration with Baba Farid School of Entrepreneurship organized a Workshop on Engineering and Entrepreneurship. Er. Avtar Singh Bhullar, Director, CADD Centre, Bathinda was the invited speaker in the seminar. He was welcomed by Er. Amritpal Singh. In his talk he explained his journey of entrepreneurship from scratch to top. He gave valuable tips to students for starting their entrepreneurship venture. Students also raised their queries regarding entrepreneurship. He also addressed in his talk that to generate a profit, an engineering entrepreneur must have the ability and commitment to harness, develop, organize, and manage a company enterprise imagined with an engineering idea, as well as manage the risk involved. It is critical for an engineering entrepreneur to have the creative mindset and problem- solving skills that the field is known for; this includes the acquisition of tools, methods, process knowledge, and the organizational and managerial understanding of innovation and entrepreneurship that will set him apart. At the end of the session, Er. Amritpal Singh, Assistant Professor, Civil engineering department gave a vote of thanks.



Glimpse of Workshop on Engineering and Entrepreneurship



**Report on  
Entrepreneurship Awareness Camp (2018-2019)**

**Date of Camp:** 09-10-2018 to 11-10-2018

**Number of students participated:** 88

**Name of Resource Persons:** Mr. Balbir Singh, National Accredited Trainer, and Former Vice

President NITCON Ltd., Chandiarh.

Ms. Mandeep Kaur Sidhu Co-Founder, Simbacart online services Pvt. Ltd. Jalandhar

Mr. Navdeep Singh Gill, Product & AI Architect, Chandigarh

Mr. Ashish Bansal, Branch Manager from Punjab & Sind Bank, Bathinda

Baba Farid College of Engineering & Technology in collaboration with the Industry-Interactive Entrepreneurship Cell organized three days Entrepreneurship Awareness Camp (EAC). This is the 2<sup>nd</sup> camp organized at the BFCET Campus in the last 15 days which is sponsored by the Department of Science and Technology (DST), Government of India to build the entrepreneurship ecosystem in the country from the grass root level. Eighty-eight students of the engineering stream participated in this camp with full zeal and enthusiasm.

The camp started with the inaugural ceremony where Mr. Balbir Singh, National Accredited Trainer, and Former Vice President of NITCON Ltd. motivated the students to pursue their ideas and follow the path of entrepreneurship. Second-day resource person for the first session was Ms. Mandeep Kaur Sidhu from Simbacart online services pvt. Limited, gave insights into her entrepreneurial journey. Ms. Sidhu started Simbacart to uplift rural areas in terms of skill development and generating employment. She encouraged the students to follow their passion with honesty and told them that anybody can reach the skies with determination and perseverance.





Mr. Navdeep Singh Gill, Product & AI Architect, Chandigarh talked about the emerging technologies of the 21st century such as AI, ML, and data science to educate the students about various career and entrepreneurial opportunities available in these fields. He also talked about the role of Angel Investors and Venture Capitalists to run the Startup. Mr. Ashish Bansal, Branch Manager from Punjab & Sind Bank talked about various schemes offered by Banks & Govt. to startups and entrepreneurs. He discussed the Marketing strategy for the new Startup and told about the various schemes opened by the Government such as Startup India, Standup India, and Make in India, etc. He also shared the different subsidy schemes of the Banks for Entrepreneurs. Further, he told the students about documents and all other ancillaries required for bank financing.

During the camp, an industrial visit was also organized to P.P. Industries, Bathinda. During the visit, students got the chance to know about the manufacturing techniques and materials for making Single Phase Transformers. It was a great experience for all the students to be able to see the manufacturing process of Transformers. Dr.Gurmeet Singh Dhaliwal, Chairman, BFCET expresses a deep sense of gratitude to DST, Govt. of India for sanctioning the EAC and appreciated the efforts of the faculty of BFCET for creating an entrepreneurial ecosystem in the campus and ensuring full support in the future.



Glimpses of Entrepreneurship Awareness Camp October 2018



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Ref. No: - *BFCET/PA/01/2018/276A*

Dated: 02.10.2018

**CIRCULAR**

**Entrepreneurship Awareness Camp (2018-2019)**

This is to inform you all that Baba Farid College of Engineering and Technology in collaboration with Industry-Interactive Entrepreneurship Cell is organizing an Entrepreneurship Awareness Camp. Students and Faculty members of any department can attend the camp by getting their name registered with Mr. Sunil Nagpal

The detail of the program are as follows:

- Date : 09.10.2018 to 11.10.2018  
Timing : 9:30 AM to 4:00 PM  
Venue : Seminar Hall, Ground Floor, Block D, BFC  
Speakers : Mr. Balbir Singh, National Accredited Trainer, and Former Vice President NITCON Ltd.  
Ms. Mandeep Kaur Sidhu Co-Founder, Simbacart online services Pvt. Ltd.  
Mr. Navdeep Singh Gill, Product & AI Architect, Chandigarh  
Mr. Ashish Bansal, Branch Manager from Punjab & Sind Bank

  
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