

## ANNUAL REPORT – [2023-24]

<b>Name of Institution</b>	<b>Baba Farid College of Engineering and Technology</b>
<b>Address</b>	Village Deon, Muktsar Road, Bathinda, Punjab - 151001
<b>Affiliated to</b>	Maharaja Ranjit Singh Punjab Technical University, Bathinda
<b>Accreditation Status</b>	NAAC A+ Cycle 1, CGPA 3.26 (valid from 25 Jan 2024 to 25 Jan 2029)
<b>Head of the institution</b>	Dr. Jayoti Bansal
<b>Designation</b>	Principal
<b>Email</b>	principalbfcet@babafaridgroup.com
<b>IQAC Coordinator</b>	Dr. Manish Gupta
<b>IQAC e-mail address</b>	iqac.bfcet@babafaridgroup.edu.in
<b>Institutional Web link</b>	<a href="https://www.bfcet.com/">https://www.bfcet.com/</a>

### 1. ACADEMICS

Institute has implemented curriculum as per the framework proposed by the affiliated university MRSPTU, Bathinda to cope up with fast growing technological demands. The curriculum has balanced opportunities for experiential/participative learning to enhance problem-solving capabilities of students. In the institute, use of ICT enabled tools is common practice in teaching learning. The institute is committed to provide student centric learning by combining technology with traditional mode of teaching for enhancing learning experiences of students. Following program are offered by Baba Farid College of Engineering & Technology (BFCET) presently:

<b>Sr No.</b>	<b>Name of the Course</b>	<b>Intake for Session 2023-24</b>
1	B. Tech. Computer Science & Engineering	120
2	B. Tech. Electrical Engineering	60
3	B. Tech. Civil Engineering	60
4	B. Tech. Mechanical Engineering	30
5	M. Tech. Computer Science & Engineering	18
6	B. Tech. Computer Science and Engineering (Artificial Intelligence and Machine Learning)	60
7	B. Tech. Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology)	30
8	B.Sc. Medical Lab Science	30
9	B.Sc. Operation Theater Technology	30
10	B.Sc. Radio Medical Imaging Technology	60
11	B.Sc. Medical Technology (Anaesthesia & Operation Theatre Technology)	30

**Introduction of New Academic Programs:** New undergraduate programs, such as B. Tech. in Artificial Intelligence and Machine Learning, Internet of Things and Cyber Security including Block Chain Technology, and specialized B.Sc. courses in Medical Lab Science, Operation Theater Technology, Radio Medical Imaging Technology, and Anesthesia & Operation Theatre Technology were introduced to align with emerging industry trends. For enrichment of curriculum, the institute prioritizes cross-cutting issues such as Gender, Environmental Sustainability, Human Values, and Professional Ethics. While these topics are part of the curriculum, the institute enhances student awareness through various activities and initiatives.

**Focus on Outcome based education (OBE):** In order to promote student-centered education and outcome-oriented teaching and learning, the institute has adopted Outcome Based Education (OBE) and has formulated Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (COs) for all undergraduate and postgraduate programs. The POs are based on the graduate attributes formulated by the Washington Accord and adopted by the National Board of Accreditation, while the PSOs are specific outcomes that graduates must acquire upon completion of the program. These outcomes have been communicated to all stakeholders for all UG and PG programs.

**Add on /Certificate programs offered during the year:** 21 number of Add on /Certificate programs offered during the year 2023 – 24. Total 665 students completed the course in this year.

**Establishment of Centers of Excellence and New Labs:** The Center of Excellence was set up in collaboration with industry to enhance research and skill-based learning.

**Skill Development Initiatives:** Several certificate courses and skill-development programs were introduced and expanded. A significant number of students were certified in industry-relevant skills, boosting employability.

Moreover, at BFCET **student centric methods**, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process. The institute has adopted a curriculum aligned with the framework proposed by its affiliated university, MRSPTU, Bathinda, to equip students with technological proficiency and meet the rapidly evolving technological demands. The curriculum offers balanced opportunities

for experiential and participative learning across all streams, fostering students' problem-solving skills. ICT-enabled tools are extensively integrated into the teaching-learning process, reflecting the institute's dedication to student-centric education. By blending technology with traditional teaching methods, the institute ensures an effective and efficient learning experience for students, employing ICT facilities through the following methodologies:

### 1. Experiential Learning

- a. Live projects/major projects
- b. Institutional and Industrial trainings
- c. Impact Lectures/ workshops by Industry Experts
- d. Guest lectures
- e. Industry Visits
- f. Field Visits/Survey
- g. Online competitions
- h. Certificate Courses



Demonstration of Project



Expert Lecture

### 2. Participative Learning

- a. Peer to peer learning
- b. Group activities
- c. Workshops/ Conferences
- d. MOOCS

### 3. Problem based learning

- a. Projects
- b. Internal Hackathons



Group Discussion



Hands on Training

## 2. QUALITY, RESEARCH AND INNOVATIONS

A comprehensive audit of academic and administrative activities was also successfully completed, ensuring quality assurance across all operations. The institute achieved notable progress with filing and granted patents in the last year.

Several research papers have been published in the Journals notified on UGC website during the year. Also, many numbers of books and chapters in edited volumes/books have been published and papers have been published in national/ international conference proceedings during the year.

**Total Grants from Government and non-governmental agencies** for research projects / endowments in the institution during the year is INR 2000000.

**Successful Organization of ISTE National Students' Convention:** The 24th ISTE Annual National Students' Convention, hosted by BFCET, included technical events and activities, showcasing the institute's commitment to fostering innovation and academic excellence.

**Institutions' Innovation Council:** The IIC has been established in the Academic Session 2020-2021. The institute has started to participate in IIC Ranking from 2019-20. The institute has successfully attained the three Star Ranking during the session 2020-21 and 2021-22 and 1.5 star ranking in 2022-23. The IIC is continuously improving its functioning by organising the activities like Global Hackathone, ICAN, CODEVISTA, PITCHPULS-a grand funding event and many more. The IIC is also organising the events in the collaboration of School of

Entrepreneurship BFGL. THE IIC has successfully organised the events Entrepreneurship Awareness Program by MSME delegates. IIC is continuously in progress to conducting the activities under the all heads mentioned on IIC Portal. We are further seeking the good approach of our IIC to enhance the Innovative and Entrepreneurship culture for the welfare of students and faculty. BabaFarid School of Entrepreneurship (BFSOE), is MSME-HI Incubation Centre and is registered under the Societies Registration Act, 1860 to promote innovation and entrepreneurship. To accomplish Its goal, BFSOE facilitates startups, enterprises, faculty and students by providing technical and business support & services. Highlight achievements of IIC are as follows:

#### Highlight Achievements of IIC

Number and Different types of I&E	27
Number and Different types of I&E and IPR activities Conducted	3
No. of student's & faculty ideas generated	23
No. of student's & faculty Innovation/prototypes developed	14
No. of IPs generated, published and granted	-
No. of Student & Faculty Start-ups/Ventures established.	16
Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	3,25,000/-
Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	1,50,000/-
No. of Technology Transfer and Commercialisation happened	-

#### Seminars/conferences/workshops conducted by the institution during the year (2023 – 24):

The detail of workshop/ seminar has been given in the Table below:

Name of the workshop/ seminar	Number of Participants	Date From – To
Session/ Panel discussion with innovation and Start-up Ecosystem Enablers from the region/state/national level	25	12-06-2024 to 12-06-2024
Workshop on Intellectual Property Rights (IPRs) and IP management for start up	20	27/05/2024 to 27/05/2024
World Intellectual Property Day	50	26/04/2024 to 26/04/2024
Standards Writing Workshop by BIS	64	25/04/2024 to 25/04/2024
TechVenture Workshop	64	23/04/2024 to 23/04/2024
Session on How to plan for Start-up and legal Ethical Step	85	27/03/2024 to 27/03/2024
Workshop on Design Thinking, Critical thinking and Innovation Design	45	26/03/2024 to 26/03/2024
Workshop on Prototype/Process Design and Development	52	26/03/2024 to 26/03/2024
International Women Day	200	08/03/2024 to 08/03/2024
Global Hackathan	160	24/02/2024 to 25/02/2024
Organize an Inter/Intra Institutional Innovation Competition/Challenge/Hackathon and Reward Best Innovations.	124	15/02/2024 to 15/02/2024
Ideathone	64	27/01/2024 to 28/01/2024
Inter/Intra Institutional Idea Competition/Challenge/Hackathon and Reward Best Ideas.	50	19/12/2023 to 20/12/2023

Organise Viksit Bharat@2047 Utsav in Campus and Watch the Inaugural Address by Hon'ble Prime Minister of India on 11th Dec. 2023	110	11/12/2023 to 11/12/2023
Expert talk on Process of Innovation Development; Technology Readiness Level (TRL), Commercialisation of Lab Technologies, Tech-Transfer	180	06/12/2024 to 06/12/2024
Workshop on Entrepreneurship Skill, Attitude and Behaviour Development	45	06/12/2023 to 06/12/2023
Workshop on StadPRO	40	04/12/2023 to 04/12/2023
Mentoring Session on Nurturing Budding Entrepreneurs	180	01/12/2023 to 01/12/2023
Expert Session on Funding Scheme tailored for Startups and MSME	150	01/12/2023 to 01/12/2023
Blockchain Integration with Router Protocol	65	28/11/2023 to 28/22/2023
Organising Innovation & Entrepreneurship Outreach Program in Schools/Community	170	22/11/2023 to 21/02/2024
IIC Regional Meet 2023-24	0	21/11/2023 to 21/11/2023
Workshop on Entrepreneurship and Innovation as Career Opportunity	70	15/11/2023 to 15/11/2023
Exposure and field visit for problem identification	52	09/11/2023 to 09/11/2023
My Story - Motivational Session by Successful Innovators.	70	06/11/2023 to 06/11/2023
Session on Problem Solving and Ideation Workshop	65	03/11/2023 to 03/11/2023
Workshop on REVIT	33	1/11/2023 to 7/11/2023
Innovation Day	97	30/10/2023 to 30/10/2023
Trends in technology and scopes after Engineering	80	26/10/2023 to 26/10/2023
Demo Day/Exhibition/Poster Presentation of Ideas/PoC ,linkage with Innovation Ambassadors/Experts for Mentorship Support.	42	05/10/2023 to 05/10/2023
Smart India Hackathon Winning Roadmap	50	15/09/2023 to 15/09/2023
National Pollution Control Day	40	12/09/2023 to 12/09/2023
Communication Skills By Rubicon	65	31/08/2023 to 06/09/2023
Workshop on AutoCAD	25	24/07/2023 to 24/07/2023

### 3. SOCIAL & EXTENSION ACTIVITIES

Extension activities are vital in higher education, fostering social awareness and holistic development among students. The institute actively promotes such initiatives under schemes like **Unnat Bharat Abhiyaan (UBA), NSS, NCC, and collaborations with agencies/NGOs.** Approximately 75-80% of students and 90-95% of faculty participate, contributing to meaningful societal change.

Description of some of these activities has been given in the following pages. Through its affiliation with **20 Punjab Bn NCC**, the institute empowers cadets with opportunities to participate in activities such as the Annual Training Camp, Swachh Bharat Campaigns, Republic Day Parades, and leadership camps, fostering discipline and patriotism. These activities reflect

the institute's dedication to societal betterment and student development. **Jan Chetna Abhyan** is also carried out for the upliftment of the villages. Various activities conducted during the year 2023 – 24 are listed below.

Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme
Planting a Green Tomorrow	NCC Unit/GSSS/GramPanchayat(Village Deon)	Project Haryali Punjab
A Drug Abuse Awareness Campaign	NCC Unit/Gram Panchayat (Village Bhuladewala)	Nasha Mukat Bharat Abhyan
One Day Cleanliness Drive	Social Welfare Department/Gram Panchayat (Village Bhokhra)	Swachh Bharat Abhyan
Eye Checkup Camp	Social Welfare Department/Gram Panchayat (Village Buladewala)/Brar Eye Hospital	NSS
Health Checkup Camp	Social Welfare Department/Gram Panchayat(Village Bhokhra)/Delhi Heart Institute	Health Check Up camp and Awareness Program
Blood Donation Camp	NCC Unit/BFCET/Red Cross Society	Voluntary Blood Donation Program
National Independence Day Celebration	NCC Unit/ Multipurpose Stadium/20 Pb Bn NCC Unit Bathinda	National Independence Parade
Plastic Free Awareness Rally	NCC/NSS Unit/Gram Panchayat (Village Peori)	Awareness program
Save Water Awareness March	NCC Unit/Gram Panchayat(Village Deon)	Awareness Program
Donate with Dignity	NSS/BFCET/Slum Area Bathinda	Donation Derive
Tree plantation Drive Seminar on "Mera Pehla Vote mere Desh K liye"	NCC Unit/GSSS/GramPanchayat(Village Deon)	Meri Matti Mera Desh
	NCC/NSS Unit	Mera Pehla Vote mere Desh K liye



Glimpses of Tree Plantation at village Buladewala

Baba Farid college of engineering and technology took a significant step towards environmental conservation by organizing a **Tree Plantation Drive** on August 09, 2023, as part of the "Meri Matti Mera Desh" campaign. The drive aimed to contribute to a greener future by planting saplings in the village Deon, and its nearby areas. The Social welfare Department of Baba Farid College of Engineering and Technology organized a Tree Plantation Activity “Planting for a

Greener Tomorrow” on September 15, 2023, at Village Buladewala, District Bathinda, under the Green India scheme in collaboration with Gram Panchayat of Village.



Glimpses of Anti Drug Awareness Campaign Village Bhuladewala

On October 03, 2023, the NSS/NCC Unit of Baba Farid College of Engineering and Technology, Bathinda, organized a rally in Village Bhuladewala, District Bathinda, Punjab, as part of the **Nasha Mukta Bharat Abhiyan** program. The primary aim of the rally was to raise awareness against drug abuse.



Glimpses of Cleanliness Drive at village Bhokhra

**Under Unnat Bharat Abhiyaan (UBA)**, initiated in 2021, the institute adopted five villages—Peori, Daula, Buladewala, Jangirana, and Bhokhra. Enthusiastic students and faculty engage in activities such as health checkup camps, water conservation awareness drives, and campaigns against drug abuse, addressing the pressing needs of these communities. The NSS Unit organized a One Day Cleanliness Drive under the Swachh Bharat Abhiyan scheme at village Bhokhra, Distt: Bathinda (Punjab) on October 06, 2023, with the collaboration of Gram Panchayat.



Glimpses of Eye Checkup Camp at village Buladewala

Social Welfare Department of Baba Farid College of Engineering & Technology organized an Eye checkup and health awareness camp in collaboration with Brar Eye Hospital, Bathinda at Buladewala Village on dated October 10 2023 During this visit villagers were made aware about various eye problem faced by people due to excess use of mobile phone along with an eye checkup camp.



Glimpses of Health Checkup Camp at village Bhokhra

The Social Welfare Department of Baba Farid College of Engineering and Technology has organized “The Health Checkup camp” in Collaboration with “Delhi Heart Hospital” Bathinda at Bhokhra Village on October 08 2023.



Glimpses of Blood Donation Camp

**The Blood Donor Squad** exemplifies the institute’s commitment to life-saving initiatives. Maintaining a database of blood groups, the squad collaborates with hospitals and NGOs within a 100 km radius. During the COVID-19 pandemic, the squad played a crucial role in arranging blood/plasma donations and organizing vaccination camps. Regular blood donation drives are conducted in partnership with the **Indian Red Cross Society** to encourage community involvement. A Blood donation camp was organized by the NCC unit of Baba Farid College of Engineering & Technology on November 23 2023 at Baba Farid College of Engineering and Technology, Bathinda in collaboration with the Red Cross Society and Blood Bank of Civil Hospital of Bathinda to celebrate NCC Day.

#### 4. SPORTS AND CULTURAL ACTIVITIES

The institution provides ample facilities for cultural, sports, and recreational activities to ensure holistic development:

- **Cultural Facilities:**

A spacious multipurpose hall with a capacity of 500 for cultural and academic events. Informal huts in green areas serve as venues for cultural activities.

- **Sports Facilities:**

Indoor games: 2 Table Tennis sets, 10 Chess sets, and 10 Carom sets.

Outdoor sports: Basketball court (1), Volleyball courts (2), Football ground, Cricket practice net, and Badminton courts (3).

- **Gymnasium:**

Two separate gymnasiums (for boys and girls) equipped with commercial treadmills, tricycles, multi-purpose exercise machines, dumbbells, boxing punches, and other fitness equipment.

- **Yoga Centre:**

Spacious seminar halls, open-air theater, and green belts available for yoga sessions.

- **Auditorium:**

An open-air theater with a seating capacity of over 1,000 for large cultural events.

- **Other Facilities:**

Air-conditioned hostels, cafeteria, eating outlets, dispensary, and stationery shops.

The achievements in sports and cultural events have been mentioned below:

**(A) ACHIEVEMENT IN SPORT EVENTS (2023 – 24)**

**Event Name:** Inter College Sports Competition

**Participating Institute:** BFCET, Bathinda

**Organizer:** MRSPTU, Bathinda    **Venue:** MRSPTU, Bathinda

**Date:** 16 Mar – 19 Mar 2024

Name of Sport	Position	Level
Cricket	1st	Inter College
Chess	2nd	Inter College
Volleyball	3rd	Inter College
Badminton	2nd	Inter College



## (B) ACHIEVEMENT IN CULTURAL EVENTS (2023 – 24)

**Event Name:** 8th Inter Zonal Youth Festival – 2023 - 24

**Participating Institute:** BFCET, Bathinda

**Organizer:** MRSPTU, Bathinda     **Venue:** YS College, Barnala

**Date:** 8<sup>th</sup> and 9<sup>th</sup> Nov 23

Name of the Award/Medal	Team/Individuals	University/State/National/International Level
1st Runner-up	Baba Farid College Of Engineering and Technology	University (Meri Mitti Mera Desh youth festival)
Best Dancer	Giddha	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Luddi	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Giddha	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Mime	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Skit	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Mimicry	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Creative Essay Writing	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Ghazal	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Installation	University (Meri Mitti Mera Desh youth festival)
Silver Medal	Vaar Singing	University (Meri Mitti Mera Desh youth festival)
Gold Medal	Shabad	University (Meri Mitti Mera Desh youth festival)
Gold Medal	Classical Solo Dance	University (Meri Mitti Mera Desh youth festival)
Gold Medal	On the spot Photography	University (Meri Mitti Mera Desh youth festival)
Gold Medal	Elocution	University (Meri Mitti Mera Desh youth festival)



## 5. ENTREPRENEURSHIP

To create an ecosystem of Startups & inculcate the entrepreneurial traits BFCET has established “Baba Farid School of Entrepreneurship (BFSOE)” with an objective to support the budding entrepreneurs to establish their new venture through constant guidance & mentoring through various training programs & industrial collaborations. BFSOE incubates 12 startups, with two showcased at the G20 Summit. In 2023-24, 21 patents were filed, and nine granted. Government collaborations and grants support activities. Incubation program of Baba Farid School of Entrepreneurship aims to nurturing innovative business ideas and transforming them into successful ventures. By offering such support, BFSOE can help startups overcome initial challenges, improve their chances of success, and contribute to economic growth and job creation in the region. This support includes mentorship, access to resources and networks, guidance on business strategy, funding assistance, and other valuable assistance that can significantly contribute to the success of startups and entrepreneurial endeavors.

### FUNDING RECEIVED BY INCUBATEES

On 7th Dec 2023, Buy One Gram presented their pitch in front of Investors at Samridhi Conclave at IIT Ropar and won the Funding of **Rs 26 Lakh** by TIF, IIT Ropar. Funding of Rs 5 Lakh to Kaizel Industries Pvt Ltd by STPI Guwahati and STPINEXT Initiatives (Further extendable to Rs 25 Lakh).

A startup incubated at BFSOE, have applied for SHE Cohort 2.0 launched by Punjab State Council for Science & Technology and got shortlisted in 40 out of 300 applicants for a two-week orientation programme. Final 25 ideas pitched in front of Investors and on 14th March 2024, the startup idea received the grant-in-aid of **Rs 2.5 Lakh**. The startup is founded by Ms. Ankita Pandey and Dr. Vivek Sharma. It works on recycling **Waste PET into Pure PET** which revolutionize the packaging industry offering low cost 100% pure PET. The startup has been registered as a Limited Liability Partnership with the name Harinarayan Recyclers LLP and also received the startup recognition.

A startup incubated at BFSOE, BFGI, secured a grant of **4 lakh** from Atal Incubation Centre, IISER Pune, on March 27th and 28th, 2024. Led by Dr. Vivek Sharma, Faculty at BFGI, and Mrs. Ankita Pandey, the startup stood out among over 80 teams nationwide. The event, supported by sponsors like NITI Aayog, IISER Pune, Bharat Seats Ltd., and NDR Auto Components Ltd., showcased the collaborative entrepreneurial ecosystem. Notable figures such

as Padma Shree Dr. Shvram, Dr. Arvind Chinchure, Dr. Sachin Jain, and Dr. Amitab Shrivastava engaged with participants. The grant not only provides financial support but also highlights the startup's innovative vision.

One of BFGI startups in pre-incubation stage, has achieved a remarkable success at the SPRINT-North Edition held at Central University of Punjab on March 1st, 2024. Lovepreet Singh, student, BSc Agriculture, BFC under the mentorship of Dr. Ankit Sharma, secured a grant-in-aid of **Rs 1 Lakh and Funding of Rs 3 Lakh** in this prestigious event. Lovepreet Singh's startup presented an innovative solution that captivated the judges' attention among the 20 teams selected for the final round. The event showcased the creativity and ingenuity of budding entrepreneurs, in which two teams in the pre-incubation stage and one team in the incubation stage from BFGI's Baba Farid School of Entrepreneurship made it to the finals.

### ACTIVITIES AT BFSoE

Various activities conducted by BFSoE hve been mentioned below for session 2023 – 24.

- **AGRI INNOVATION CONTEST 2023:**

On September 29, 2023, the Baba Farid School of Entrepreneurship (BFSoE) organized a prestigious event, the Agri Innovation Contest, on a PAN India level. This initiative aimed to recognize and promote innovative solutions within the field of agriculture and its allied sectors. The event witnessed the participation of 24 shortlisted teams, each eager to present their



groundbreaking ideas in front of a panel of distinguished judges. The winners of the AgriInnovation Contest were selected based on a combination of technical and business parameters. The winner teams were Owais Ahmad Wani, Bushra Naaz and Dr Vipasha Sharma.

These innovative minds were awarded cash prizes of INR 25,000, INR 20,000, and INR 10,000, respectively. The judgement panel commended the creativity and ingenuity displayed by all the participating teams and extended their best wishes for their entrepreneurial ventures.

- **Webinar on Taxation and Compliances for Startups:**

To provide valuable insights to budding entrepreneurs, BFSoE successfully organized a webinar on taxation for startups on August 27, 2023. The event featured Ms. Deepinder Kaur, FCA, an expert from Parshotam & Associates, who shared her expertise on navigating the intricate landscape of taxation. The webinar served as a platform for startup enthusiasts to gain a comprehensive understanding of the tax-related challenges and opportunities that emerging businesses face. Ms. Kaur's extensive knowledge shed light on various tax compliance strategies, deductions, and incentives that can prove to be advantageous for startups.

- **Sessions on Introduction to Startup Ecosystem**

BFSoE, in collaboration with different departments/colleges, organized sessions focusing on Startup Ecosystem Awareness. These sessions took place at the Department of Computer Applications, Department of Agriculture, and Department of Commerce on 7th Sept, 17th Oct, and 20th Oct respectively.

- **Incubation Capacity Building Webinar**

On 19th July 2023, an online session with the resource person Mr Manish Verma, Co-Founder & CEO, Angel Blue was organized for Incubation Capacity Building. Dr Manish Gupta, Head, BFSoE extended a warm welcome to the resource person. Twenty participants from BFSoE and other incubators attended the session.

- **STARTUP MEET 1.0**

BFSoE organized an online startup meet on November 7th , 2023. The event aimed to bring together startups and entrepreneurs in Bathinda and its vicinity to learn from industry experts and connect with like-minded individuals. Mr. Ashutosh Burnwal, the CEO and Founder of Buddy4Study, known as the "Scholarship Man of India," served as the resource person for the first session. In this engaging session on the "Startup Journey of an Entrepreneur," Mr. Burnwal shared his personal experiences, offering insights and lessons learned during the critical early stages of a startup's growth.

- **ENTREPRENEURSHIP AWARENESS PROGRAMME**

BFSoE, BFGI in partnership with the Micro, Small, and Medium Enterprises Development Facilitation Office (MSME DFO) and District Industry Centre (DIC), Bathinda, organized a dynamic Entrepreneurship Awareness Programme on December 1, 2023, at BFGI campus.



Mr. Kunadan Lal & Mr Krishan Kumar, Assistant Directors, MSME-DFO, delivered an inspiring session, motivating the students towards self-employment. They elaborated on various schemes offered by the Ministry of Micro, Small, and Medium Enterprises, Government of India, aimed at nurturing budding entrepreneurs. Ms. Jaspreet Kaur, representing the District Industry Centre, Bathinda, enlightened the students about the state government's initiatives and schemes designed to promote entrepreneurship at the local level.



Mrs. Manju Galhotra, Lead District Manager at State Bank of India, Bathinda, provided a comprehensive briefing on various financial schemes accessible to startups and MSMEs, guiding the students on how to leverage these opportunities for their ventures. The sessions were highly interactive, allowing students to actively

participate and ask questions to gain practical knowledge.

- **STARTUP AWARENESS SESSION:**

On 7<sup>th</sup> Feb 2024, 21 Feb 2024 and 27 March 2024 Ms. Iqbalpreet Kaur Sidhu, incubation manager at BFSoE led and inspiring startup awareness session in Department of Agriculture, Biotech and Commerce. Aimed at students, the event explored startup culture through personal anecdotes and industry insights.

- **I CAN STARTUP – IDEA COMPETITION**

On March 07, 2024 BFSoE hosted the I Can Statrtup Idea Competition for Baba Farid Group of Institutions students, showcasing entrepreneurial talent. Judges Mr. Naman Singhal CEO, AIC, ISB, Mohali; and Dr. Akshay Nag CEO, CUPRDF, Central University of Punjab, evaluated ideas on innovation and scalability. Winners “BEE Wax Moth Trap”, “Handmade Customized Gifts”, and “Blue Collar Job” received cash prizes of Rs. 8000, 5000 and 3000. The event aimed to inspire and support budding entrepreneurs.

- **CODEVISTA 3.0 “Programmer to Startup”**

On March 21, 2024, Baba Farid School of Entrepreneurship (BFSoE) hosted CODEVISTA 3.0 "Programmer to Startup," where programmers showcased coding skills and startup ideas. Out of 48 teams, 24 were selected for presentations.

The judging panel, including Mr Parwinder Singh, Director, Allumez Infotech Pvt. Ltd., Mohali & Net Tycoons LLC, USA; Mr. Rahul Jindal, Founder, Inventoscope LLP, Bathinda; and Mr. Lakhwinder Singh, System Analyst, BFGI; offered valuable feedback and encouraged innovation. Top winners Nikhil Kumar, Nimarpreet Singh, and Mehakdeep Singh received Rs 10,000, 8,000, and 5,000, respectively, along with incubation services from BFSOE.

## **6. INFRASTRUCTURE AND LEARNING RESOURCES**

In addition to the sports and cultural facilities, the institution ensures a well-maintained infrastructure as per regulatory standards to create an effective learning environment.

### **The facilities include:**

**6.1. Classrooms:** 34 ICT-enabled, air-conditioned classrooms. Each department is equipped with smart classrooms.

**6.2. Laboratories:** 51 laboratories and a computer center with modern equipment to develop technical skills. Each lab is fully equipped with experimental setups and required software. A central workshop with fully equipped shops enhances practical skills and project work knowledge. Three Centers of Excellence in AI, Industrial Automation, and IoT, developed in collaboration with Intel India, FESTO India, and EdGate, provide access to the latest technology.

**6.3. Computing Equipment:** A Wi-Fi network with 150 Mbps bandwidth across all academic and administrative areas, library, faculty rooms, and hostels. Total 271 computers and four high

configuration servers, including an Intel Xeon gold server in the AI lab, support various academic needs.

**6.4. Conference Rooms:** Dedicated spaces for discussions, presentations, and meetings.

**6.5. Library as a Learning Resource:** The institute employs Integrated Library Management Software (ILMS) “E-Granthalya” version 3.0 Rev. No. 32 for seamless library operations. With open access enabled through the OPAC system, E-Granthalya maintains its own holdings database. All book issuance and returns are automated using a barcoding system. Students and faculty can independently check and access book availability via mobile, computers, or laptops, ensuring efficiency in library services. Key features of the ILMS include:

- Comprehensive bibliographical details of the collection.
- Online Public Access Catalogue (OPAC) accessible remotely.
- User account management with login updates.
- Daily transaction records for book issuance and returns.
- Maintenance of procurement details like the accession register.
- Customized reports, catalogs, and usage statistics based on specific filters.

The library houses 3,225 titles, 16,885 books, 49 project reports, 55 theses, 8 magazines, 20 journals, and 8 subscribed newspapers. It also includes a digital library with 214 IEEE e journals, NDL, open-access databases, and 542 DVDs/CDs.

Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year

Library resources	No. /details of memberships/ subscriptions	Total Library Expenditure (INR)
Books	304	221041.68
Journals	21	54350
e – journals	(IEEE)216	598224
e-books	ebsco (1package)	354314

## 6.6. IT Infrastructure

The institute integrates technology seamlessly into daily operations, supported by a Wi-Fi enabled campus and robust infrastructure managed by a centralized Hardware and Networking Department.

➤ **IT Facilities:**

- Internet Bandwidth: Upgraded from 100 Mbps to 150 Mbps to meet stakeholders' evolving needs.
- Wireless Network: Enhanced with 25 access points using WPA2 encryption with AES algorithm.
- Computers: 323 latest-configuration computers available.

➤ **Centers of Excellence:**

- Artificial Intelligence (Intel India): Equipped with Intel One API software, Intel XEON Gold server (24 cores, 6TB memory), and 29 computers (i5 processor, 8GB RAM).
- Industrial Automation (FESTO India): Features CIROS, FLUID SIM software, Diadatic training kits, and 7 computers.
- IoT (EdGate): Includes microcontroller boards, IoT sensors, modules, and 5 computers.

➤ **Data Centre:**

- Houses 4 high-configuration servers, including ERP and library servers.
- 7 online UPS (1–10KVA) ensure power backup.

➤ **Network & Security:**

- High-speed internet with 25 access points and a FORTIGATE 1000D firewall (52 Gbps throughput).
- 24x7 internet access across campus and hostels.

➤ **Additional Facilities:**

- Surveillance: 67 CCTV cameras ensure campus safety.
- Projectors and Printers: 34 projectors and department-wise printers.
- Software: Licensed MATLAB, Xilinx, E-tap, and open-source software.

A dedicated IT team oversees the data center, network, and software, ensuring efficient operations.

**6.7 Budget:** Details about assigned budget and expenditure on physical facilities and academic support facilities (excluding salary component) (INR in Lakhs):

Year	Budget allocated for infrastructure augmentation	Expenditure for infrastructure augmentation	Total expenditure excluding Salary	Expenditure on maintenance of academic facilities (excluding salary for human resources)	Expenditure on maintenance of physical facilities (excluding salary for human resources)
2023-24	146	142.79	493.59	14.65	118.06

## 7. PLACEMENTS

Training & Placement (T&P) Cell at Baba Farid College of Engineering and Technology has an agenda of fostering the Industry-Academia linkages/ partnerships to create a workforce empowered with the necessary and continuous upgraded skills recognized by industry internationally. BFCET is continuously taking initiatives to raise the quality standards year on year to match the global standards and remain on the top in this globally competitive world. In bridging the gap between mainstream education & industry BFCET provides soft skills training sessions regularly to the students, which are specifically tailored by working on the basic foundation of the students with the help of technological conformed pedagogy. As we all know, Education is not just about acquiring great dossiers of scorecards or grade sheets. Education is all about nurturing your thoughts and actions in such a way that you are the fittest to survive in this era of cut-throat competition. The industry skills are changing day by day by which placements are getting more competitive for the students. This is one of the main reasons to introduce soft skills programs.

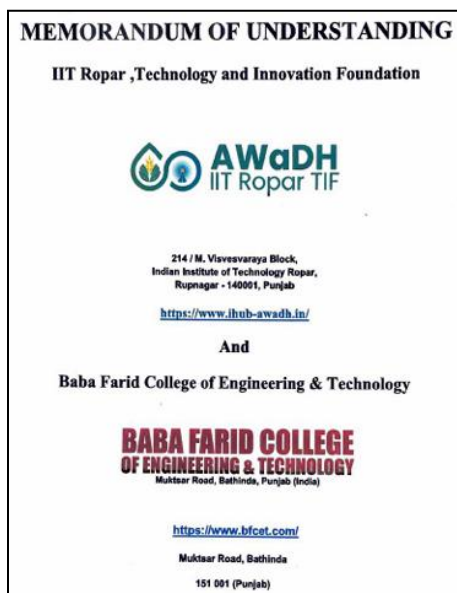
## 8. COLLABORATION AND MOUs

In our quest to bridge the gap between industry and academia, BFCET has tied up with Global Tech players and institutions to cultivate synergistic alliances for keeping abreast of the market needs and implement an industry-relevant curriculum. The purpose of the MoU is to have mutual intentions to collaborate on projects needed for companies and research, with experienced faculty who have had successful careers in industry and bright students who are willing to share their knowledge for growth and mutual gain, on the areas specified such as Industrial Visits, Guest Lectures, Research & Development and placements.

In the year 2023 – 24, BFGI has collaborated and signed MoUs with the following organizations:

Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	List the actual activities under each MOU
CADD Center Bathinda	CADD Center Bathinda	Workshop on AutoCAD-3D

Uthrive India Pvt. Ltd.	Uthrive India Pvt. Ltd.	Collaborated Activity (BFCET HACK)
Gavin Engineering Sevices CHD/CADD Centre CHD	Gavin Engineering Sevices CHD/CADD Centre CHD	Workshop on "Emerging Trends in Modern Engineering"
Innovative Systel	Innovative Systel	Workshop on "Bently, Midas & ESRI Software
IIT ROPAR	IIT ROPAR	Internship & CPS Lab Established



BFCET has tied up with Global Tech players such as INTEL, FESTO and EdGate for Centre of Excellence to cultivate synergistic alliances for keeping abreast of the market needs and implement an industry-relevant curriculum. These centers are founded with an aim to strengthen teaching, research, consulting and community engagement. Artificial Intelligence, IoT and Industrial Automation Labs are established in collaboration with these centers play a decisive role in enriching the potential of students and faculty members through extensive training programmes.

(Signature & Seal)

Principal