

# Baba Farid College of Engineering and Technology (BFCET)

## Annual Report [2024 - 25]

Baba Farid College of Engineering and Technology, managed by Baba Farid Vidyak Society since 1994, provides quality education with modern facilities, skilled faculty members, and advanced labs. Led by Chairman Dr. Gurmeet Singh Dhaliwal and Campus Director Dr. M. P. Poonia, it emphasizes practical skills, research, and industry readiness through seminars, conferences, and innovative teaching for global competitiveness.

<b>Name of Institution</b>	<b>Baba Farid College of Engineering and Technology</b>
<b>Address</b>	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>Institutional Web link</b>	<a href="https://www.bfcet.com/">https://www.bfcet.com/</a>

## 1. Schools of BFCET

### 1.1. Baba Farid School of Engineering

Baba Farid School of Engineering and Management, led by Principal Prof. (Dr.) Jayoti Bansal, offers UG programs in CE, ME, EE, CSE, CSE with AIML & IoT (intake 540) and PG in CSE (intake 18). The institute emphasizes innovation, research, and industry-focused education to nurture future-ready professionals.

#### 1.1.1. About the departments of School of Engineering

##### I. Civil Engineering

The Civil Engineering Department at BFCET, established in 2008, imparts quality education through innovative and traditional teaching. Its balanced curriculum emphasizes theory, practice, projects, field trips, and industry interaction. Students gain technical expertise, personality development, and ethics, while faculty enhance industry links through consultancy, ensuring graduates remain in high demand.

##### II. Mechanical Engineering

The Mechanical Engineering Department at BFCET equips students with modern skills, industry readiness, and technical competence. Its four-year curriculum emphasizes problem-solving, innovation, and practical knowledge. Along with core training, students gain exposure through certificate courses, offering diverse opportunities to explore interests beyond the curriculum and meet evolving industry demands.

##### III. Electrical Engineering

Electrical Engineering involves study of electricity, devices, and systems for generation, transmission, storage, conversion, and control of energy. Electrical engineers are vital in power corporations, industries, manufacturing, petroleum, steel, and chemical plants. They also secure opportunities in research institutions, design, production, and training roles across public and private sectors.

##### IV. Computer Science and Engineering

The CSE Department aims to build students' careers in computer and IT by enhancing core concepts and intellectual capital. With well-equipped labs offering hands-on experience in software, hardware,

and networking, the department ensures practical learning. An independent computer lab further supports academic and professional growth in emerging technologies.

## V. Computer Science and Engineering AIML & IoT

The AIML/IoT Department at BFCET, established in 2022, provides quality education with a blend of theory and practice. It prepares students for careers in AI, ML, and IoT through innovative teaching, well-equipped labs, and hands-on training in software, hardware, and networking, fostering intellectual growth and technical excellence.

### 1.1.2. Programmes of study in the departments of School of Engineering

S. No.	Department	Programme of Study	Duration	Intake
1	CE	B. Tech. Civil Engineering	4 years	60
2	ME	B. Tech Mechanical Engineering	4 years	60
3	EE	B. Tech. Electrical Engineering	4 years	60
4	CSE	B. Tech. Computer Science & Engineering	4 years	120
5	AIML & IoT	B. Tech. Computer Science & Engineering (AIML)	4 years	180
6	AIML & IoT	B. Tech. Computer Science & Engineering (IoT and Cyber Security including Block Chain Techno)	4 years	60
7	CSE	M. Tech. Computer Science & Engineering	2 years	18

## 1.2. Baba Farid School of Business Studies

The School of Business Studies at BFCET nurtures future leaders with strong foundations in strategy, management, and entrepreneurship. Equipped with modern resources, Venture Lab, and Soft Skills Workshop, it offers practical exposure through MOUs, internships, and live projects. Departments include Business Studies with intake of 120, Management with intake of 480, and Commerce with intake of 510.

### 1.2.1. About the departments of School of Business Studies

#### I. Business Studies

In 2024–25, the Department of Business Studies achieved 100% results with toppers scoring 88.6%. Students gained corporate exposure through guest lectures, workshops, and visits. Research contributions, placement readiness via training, and internships in banking, IT, consultancy, and FMCG, alongside innovative pedagogy, strengthened academic and professional excellence.

#### II. Commerce

The Department of Commerce offers B. Com, B. Com (Hons.), and M. Com, combining academic rigor with professional orientation. Through seminars, workshops, expert talks, and research-driven teaching, students explored business trends. Activity-based learning, competitions, and community initiatives enhanced analytical, problem-solving, leadership, and social responsibility skills, fostering holistic growth and career readiness.

#### III. Management

The Department of Management, with a 420-seat BBA program, emphasized practical learning through projects, industry assignments, mentorship, and expert sessions. Active participation in events, sports, and cultural activities fostered holistic development. Together, the departments nurture competent professionals, ethical leaders, and responsible citizens prepared to excel in a global environment.

### 1.2.2. Programmes of study in the departments of School of Business Studies

S. No.	Department	Programme of Study	Duration	Intake
1	Department of Business Studies	MBA	2 years	120
2	Department of Commerce	B. Com	3 years	360
3		M.Com	2 years	30
4		B. Com (Hons.)	3 years	120
5		Department of Management	BBA	3 years
6	Department of Management	BTTM	4 years	30
7		BMS	3 years	30

### 1.3. Baba Farid School of Computer Applications

The School of Computer Applications equips students for careers in computer science, software development, and IT. With modern labs, advanced tools, and hands-on training in programming, databases, networking, cybersecurity, and AI, it fosters computational skills, research, and industry readiness, preparing graduates to excel in emerging technologies and professional roles.

#### 1.3.1. About the departments of School of Computer Applications

##### I. Department of Computer Applications

The department offers diverse programs: BCA for strong computing foundations, BCA (AIML) to meet AI industry demand, MCA for advanced software development and research skills, and PGDCA to equip graduates with practical computing expertise. These courses prepare students for dynamic careers in IT and emerging technologies.

#### 1.3.2. Programmes of study in the departments of School of Computer Applications

S. No.	Department	Programme of Study	Duration	Intake
1	Computer Applications	BCA	03 years	960
2		MCA	02 years	60
3		PGDCA	01 year	30

### 1.4. Baba Farid School of Sciences

Baba Farid School of Sciences comprises the Departments of Physical & Mathematical Sciences and Biomedical & Allied Health Sciences. It fosters scientific inquiry, innovation, and research through modern laboratories, interactive teaching, and industry exposure. The school nurtures analytical thinking and practical skills, preparing students for advanced studies and professional excellence.

#### 1.4.1. About the departments of School of Sciences

##### I. Physical and Mathematical Sciences

The Department of Physical and Mathematical Sciences offer B.Sc. (non-medical), B.Sc. (with Computer Science), B.Sc. (Hons.) Mathematics, B.Sc. (Hons.) Physics, M.Sc. Physics, and M.Sc. Mathematics. With modern labs, research facilities, and experiential learning, it nurtures analytical, computational, and research skills, preparing graduates for academia, industry, data science, and research careers.

##### II. Biomedical and Allied Health Sciences

The Department of Biomedical and Allied Health Sciences offer professional programs in Medical Lab Science, Physiotherapy, Operation Theatre Technology, Radiology, Anaesthesia Technology, Medical, and Biotechnology. With advanced labs, hospital collaborations, and practical training, it equips students

with clinical, diagnostic, and research skills, preparing them for careers in healthcare, industry, and biomedical research.

#### 1.4.2. Programmes of study in the departments of School of Sciences

S. No.	Departments	Programme of Study	Duration	Intake
1	Physical and Mathematical Sciences	B.Sc. Non – Medical	3 years	120
2		B.Sc. Non-Medical (Computer Science)	3 years	60
3		B.Sc. Hons. Mathematics	3 years	30
4		M.Sc. Physics	2 years	30
5		M.Sc. Mathematics	2 years	30
6		M.Sc. Chemistry	2 years	30

S. No.	Departments	Programme of Study	Duration	Intake
7	Biomedical and Allied Health Sciences	B.Sc. Medical Lab Science	3 years	60
8		B.Sc. Operation Theatre Technology	3 years	30
9		B.Sc. Radio medical Imaging Technology	3 years	60
10		B.Sc. Anaesthesia and Operation Theatre Technology	3 years	60
11		Bachelor of Physiotherapy	4.5 years	60
12		B.Sc. Medical	3 years	50
13		B.Sc. Hons. Biotechnology	3 years	50

#### 1.5. Baba Farid School of Agriculture

The School of Agriculture offers a four-year B.Sc. (Hons.) Agriculture program, blending academic knowledge with practical training. With a dedicated agricultural farm and modern machinery, students gain hands-on experience in soil, water, and crop management, preparing them for diverse careers in agriculture, agribusiness, and rural development.

##### 1.5.1. About the departments of School of Agriculture

###### I. Agriculture

The department of Agriculture offers B.Sc. (Hons.) Agriculture which blends theory and practical training in agronomy, soil science, horticulture, genetics, and economics. With 12 advanced labs, a plant nursery, and live projects, students gain skills in crop management, soil testing, pest control, livestock care, and modern techniques, preparing for careers in research, agribusiness, and farming.

##### 1.5.2. Programs of study in the departments of School of Agriculture

S. No.	Departments	Programme of Study	Duration	Intake
1	Agriculture	B. Sc. (Hons.) Agriculture	4 years	240
2		B. Sc. (Hons.) Agribusiness Management	4 years	60

#### 1.6. Baba Farid School of Skill Development

The school's core pillars focus on holistic skill development, innovation, and industry collaboration. Under **Upskilling and Certification**, 64 certificate courses were completed between 2022–25, training

2,416 students in partnership with Intel, FESTO, EdGate Technologies, Infosys Springboard, Schneider Electric, and others. In **Innovation and Research**, over 20 patents have been filed, five research proposals submitted to SERB, DST, DRDO, and CSIR, and more than 10 publications produced, focusing on AI, IoT, and healthcare applications. **Industry Integration** is strengthened through 50+ industry-linked certificate courses and consultancy projects with AIIMS Bathinda, Intel, and the Indian Army. The **Entrepreneurial Ecosystem** thrives through international-level hackathons like BFCET HACK 1.0 & 2.0, “Earn While Learn” programs, and skill workshops for external students. The institute has also established multiple **Centres of Excellence (CoEs)** – including the AI Lab (Intel), IoT Lab (EdGate), Industrial Automation Lab (FESTO), CPS Lab (IIT Ropar), VR Lab (Schneider Electric), and AR/VR/MR Lab (QVOLV Technologies) – with upcoming expansions into Robotics and Cyber Security Labs.

### Institutional Impact (2022–2025)

Category	2022–23	2023–24	2024–25	Cumulative Total
Revenue (₹)	1,97,700	17,82,616	12,01,387	31,39,000 +
MoUs & Industry Partners	20 active MoUs with leading organizations (Intel, AIIMS, Infosys, GTT Technologies, Qvolv, Schneider Electric etc.)			

### Major Achievements

- Developed 3D-printed medical models and AI-assisted apps with AIIMS Bathinda.
- Launched CSR-funded 100-Hour ICT Academy program with Infosys Foundation.
- Established “Design Now Challenge” and multiple faculty FDPs with Wadhvani Foundation and Schneider Electric.
- Installed smart systems (Weather Station for Polyhouse Automation, Automatic Bell System, Hostel Entry system).

### 1.7. Baba Farid School of Entrepreneurship (BFSoE) – Incubation Centre

The **Baba Farid School of Entrepreneurship (BFSoE)** is a registered **MSME–Host Institution Business Incubator** under the *Societies Registration Act, 1860*. It is dedicated to nurturing innovation and entrepreneurship among students, faculty, and early-stage startups through mentorship, funding facilitation, and networking. BFSoE plays a pivotal role in fostering a sustainable startup ecosystem across the Malwa region of Punjab by bridging the gap between innovation and industry.

BFSoE offers end-to-end incubation support, including business strategy development, prototype assistance, product design, financial and legal advisory, IPR facilitation, HR and marketing strategy, funding access, and mentor-led growth planning. The incubation framework at BFSoE operates through three progressive stages: **Pre-Incubation, Incubation, Acceleration**

During the year 2024–25, BFSoE conducted several impactful initiatives to strengthen entrepreneurial learning and innovation:

- **IdeaRise:** A three-month pre-incubation program culminating in a *Mini Shark Tank Demo Day*,
- **Young Innovation Camp:** A two-day residential program for 11th-grade students designed to inspire creativity, problem-solving, and entrepreneurial thinking.

- **LaunchX:** Focused on MVP development and supporting early startups in achieving market entry.
- **PitchPulse 2024:** An investor-connect platform where ten startups pitched to more than twenty investors in collaboration with *Startup Punjab*.
- **VentureX Accelerator:** A two-month program for growth-stage startups, culminating in a *Demo Day at IIT Delhi*, where twenty selected startups showcased their ventures to a panel of leading investors.
- **Mentorship Sessions:** Sessions were arranged for the startups as per their requirements
- **Events:** Various events for students and identifying the innovations were organized

A series of **workshops and mentorship sessions** were also conducted on topics such as startup finance, design thinking, branding, sales strategy, and legal and regulatory compliance.

During the year, Baba Farid School of Entrepreneurship (BFSoE) demonstrated remarkable progress in strengthening its startup ecosystem. The Centre successfully incubated 18 companies and identified 20 promising startups through its flagship Startup Accelerator Programme – VentureX. Funding has been sanctioned for these startups and will be disbursed in structured tranches to support their growth and operational milestones. In addition, six startups are currently in the pre-incubation stage, receiving mentoring and support for idea validation and prototype development. To further expand the incubation pipeline, BFSoE also launched a special call for startups under its LaunchX Program, inviting innovative and scalable ventures to join the incubation network. This sustained momentum reflects BFSoE’s growing influence as a catalyst for entrepreneurial development in the Malwa region.

BFSoE has built a strong collaborative network with industry, academia, and government bodies to support innovation and entrepreneurship:

- **Investment Partners:** AngelBlue Holdings, AngelBay Holdings, Punjab Angels Network, Startup Punjab
- **Ecosystem Partners:** IIT Ropar TBIF, AgHub Hyderabad, RCED Chandigarh, IMPunjab, TBI–IISER Mohali, PSCS&T, BFGI Innovation Centre

## 2. Journal Publications by different Schools of BFCET

A summary of journal publications by different schools has been mentioned in the following Table. The school-wise details of these publications have been given in subsequent sections:

S. No.	Name of School	No. of journal publications
1	School of Engineering	18
2	School of Business Studies	37
3	School of Computer Applications	04
4	School of Sciences	19
5	School of Agriculture	04

### 2.1. Journal Publications by School of Engineering

1. Taneja, T., & Verma, R. (2024, April). Aluminum alloys consideration in lightweighting vehicle structural components: Material selection and design considerations. *Journal of Advanced Research in Automotive Technology and Transportation System*, 8(1), 1–6.

<http://thejournalshouse.com/index.php/automotive-transport-tech-engg/article/view/1072>

2. Verma, R., & Taneja, T. (2024, May). Hydrogen fuel cell technology: Applications in automotive industry. *Journal of Advanced Research in Automotive Technology and Transportation System*, 8(1), 7–13. <http://thejournalshouse.com/index.php/automotive-transport-tech-engg/article/view/1075>
3. Thakur, N., Tayal, A., & Kaur, S. (2024, October). Enhance the engineering properties of composites using slag and waste material: A review. *International Journal for Research in Engineering Application & Management*, 10(7). [https://www.ijream.org/IJREAM\\_V10I07.html](https://www.ijream.org/IJREAM_V10I07.html)
4. Sidhu, R. S., Tanu, & Kaur, M. (2024, October). Use of RBI grade 81 & solid waste ash in expansive soil. *International Journal for Research in Engineering Application & Management*, 10(7). [https://www.ijream.org/IJREAM\\_V10I07.html](https://www.ijream.org/IJREAM_V10I07.html)
5. Singh, H. (2025). Enhanced pilot allocation in MIMO-OFDM systems using the enhanced shuffled frog leaping algorithm. *Discover Electronics*, 2(1), 9. <https://doi.org/10.1007/s44291-025-00048-z>
6. Singh, H. (2025). Improving smart home energy management using genetic algorithms. *International Journal of Research Culture Society*, 9(2), 71–79. <https://ijrcs.org/>
7. Singh, N., & Bedi, C. S. (2024, August). Implementing biometric technology for voter identification and authentication. *International Journal of Innovative Research in Technology*, 11(3), 964–972. <https://ijirt.org/article?manuscript=167253>
8. Reetu, & Bedi, C. S. (2024, July). Identification and verification of handwritten signatures using digital image processing techniques in an offline setting. *International Journal of Innovative Research in Technology*, 11(2), 1627–1637. <https://ijirt.org/article?manuscript=166690>
9. Kaur, T., Singh, H., & Dhaliwal, R. K. (2024, April). Developing a hyperparameter tuning and outliers based on machine learning approach of heart disease prediction. *International Research Journal of Modernization in Engineering Technology and Science*, 6(4). <https://doi.org/10.56726/IRJMET51820>
10. Bansal, J., Gangwar, G., Aljaidi, M., Alkoradees, A., & Singh, G. (2025). EEG-Based ADHD classification using autoencoder feature extraction and resnet with double augmented attention mechanism. *Brain Sciences*, 15(1), 95. DOI: <https://doi.org/10.3390/brainsci15010095>
11. Sonam, & Chhabra, P. (2024). Application of New Fuzzy Measure in Multi-Attribute Decision-Making. *Inquietud Empresarial*, 24(2), 1-12. DOI: <https://doi.org/10.19053/uptc.01211048.17901>
12. Singh, G., Jayant, A., & Singh, M. (2024). Parametric investigation and optimization of revolving tools-based magnetorheological finishing process for external cylindrical surface of printing machine roller made of copper. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 238(5), 2331-2342. DOI: <https://doi.org/10.1177/09544089231161464>
13. Singh, A., Kumar, V., Khosla, P. K., Shivling, V. D., Saini, A., Kumar, S., & Singh, V. (2025). Investigations of an Innovative Drop Test Facility for Shock Evaluation of Portable Electronics. *Advanced Theory and Simulations*, 8(4), 2401006. DOI: <https://doi.org/10.1002/adts.202401006>
14. Singh, G., Jayant, A., Singh, K., Vashishtha, G., & Singh, M. (2025). Enhancing surface quality of cylindrical mold punch made of P20 steel using a newly developed magnetorheological finishing process. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 09544089251359343. DOI: <https://doi.org/10.1177/09544089251359343>
15. Singh, M., Singh, G., Abu-Malouh, R., Chauhan, S., & Vashishtha, G. (2025). Influence of Magnetorheological Finishing on Surface Topography and Functional Performance of Shoulder Joint Cap Surface. *Materials*, 18(14), 3397. DOI: <https://doi.org/10.3390/ma18143397>

16. Goyal, B., & Singh, G. (2025). KNN based Identification of Denial-of-Service Attack in Software Defined Network. *International journal of innovative research in computer and communication Engineering*, 12(5), 6483-6488. DOI: <https://doi.org/10.15680/IJRCCE.2024.1205221>
17. Singh, J., & Singh, C. (2025, July). Cardiovascular risk prediction. *International Research Journal of Engineering and Technology (IRJET)*, 12(7), 636–639. <https://www.irjet.net/archives/V12/i7/IRJET-V12I787.pdf>
18. Ma, F., Wang, J., Jia, R., Wang, B., Qi, M., & Saxena, N. K. (2025, July). Measurement of Safety Distance for Construction Machinery Operation Based on Binocular Vision and Operational State Perception. *IEEE Transactions on Instrumentation and Measurement*, Vol 75. DOI: <https://doi.org/10.1109/TIM.2025.3587367>

## 2.2. Journal Publications by School of Business Studies

1. Rani, M., & Singh, A. (2024). A paper on exploring the budgetary control of Bharat Electronics Limited. *International Journal of Research and Analytical Reviews (IJRAR)*, 11(4), 895-900. Available at: <https://www.ijrar.org/papers/IJRAR24D2767.pdf>
2. Rani, M. (2024). A paper on the evolution of factoring services in India: historical developments and current trends. *The International journal of analytical and experimental modal analysis*, XVI(10), 154-161. Available at: <https://drive.google.com/file/d/1jKdGsztO7q5IwxEQ6L-7UK0JO7TvDW6Y/view>
3. Chhabra, S. (2024). Occupational Stress in Relation to Job Satisfaction among Teachers: A Literature Review. *The International journal of analytical and experimental modal analysis*, XVI(10), 39-45. Available at: [https://drive.google.com/file/d/17fHcuLtULxz\\_z2cxgAvbZseJLrBfFjum/view?usp=sharing](https://drive.google.com/file/d/17fHcuLtULxz_z2cxgAvbZseJLrBfFjum/view?usp=sharing)
4. Khanna, B., & Deepasha (2024). Understanding Risk and Return Perception among Mutual Funds Investors- A Literature Review. *International Journal of Research and Analytical Reviews (IJRAR)*, 11(4), 695-698. Available at: <https://www.ijrar.org/papers/IJRAR24D2870.pdf>
5. Soni, A. (2024). Audit Professional Skepticism: A Critical Examination. *International Journal of Emerging Technologies and Innovative Research*, 11(12), d388-d391. Available at: <http://www.jetir.org/papers/JETIR2412344.pdf>
6. Kaur, R. (2024). The big bazaar dilemma: a study on the reasons of the failure of big bazaar. *International Journal of Research and Analytical Reviews (IJRAR)*, 11(3), 863-866. Available at: <http://www.ijrar.org/papers/IJRAR24C2763.pdf>
7. Sonia, Lehri, B. P. S., Lakshmana Rao, Ch., Othman, B., Raja Sabarish Babu, K. G., & Joseph, C. (2024). Corporate social responsibility's effect on customer behavior and brand equity. *Journal of Informatics Education and Research*, 4(2), 1684-1690. Available at: <https://www.jier.org/index.php/journal/article/view/978/828>
8. Kaur, D., & Sonia (2025). Challenges Faced by Lenders in Providing Reverse Mortgage Loan: A Comparative Analysis. *International Journal of Advanced Research in Commerce, Management & Social Science (IJARCMSS)*, 8(2), 21-25. Available at: <https://www.inspirajournals.com/uploads/Issues/193404943.pdf>
9. Singh, A., & Sharma, V. (2024). Guru nanak dev ji di Baani da sabhycharak ate samajik mahatav. *International Journal of Research and Analytical Reviews (IJRAR)*, 11(4), 751-755. Available at: <https://www.ijrar.org/papers/IJRAR24D3010.pdf>

10. Rani, M., & Singh, H., Kaur, G. (2024). The analysis of non-performing assets in public and private sector banks in India. *Annals of the Bhandarkar Oriental Research Institute*, 101(12), 126–131. ISSN 0378-1143. UGC-CARE List Group 1.
11. Pandey, A., & Kaur, N. (2024). How Modern Technology Affects Soldier Motivation in Warfare: Analysis and Recommendations. *International Journal of All Research Education and Scientific Methods*, 12(8), 1017–1026. <https://www.ijaresm.com/how-modern-technology-affects-soldier-motivation-in-warfare-analysis-and-recommendations>
12. Rani, M., & Kaur, G. (2024). A study on performance of NBFCs in India: A case study of Bajaj Finserv. *Rabindra Bharati University Journal of Economics*, 18, 63–67. Impact Factor: 5.8.
13. Sidana, S., Dev, S., Quadri, M. A., & Dropti. (n.d.). The role of credit card services in enhancing customer loyalty in public and private sector banks. *Annals of the Bhandarkar Oriental Research Institute*, ISSN 0378-1143, 19–21. UGC-CARE Group I.
14. Sidana, S., Kaur, N., Singh, D., & Angad. (2024, December). Comparative analysis of brand preferences and customer satisfaction in Android and Apple iOS users. *Rabindra Bharati University Journal of Economics*, Vol-XVIII, 126–129. ISSN: 0975-802X.
15. Bagga, H., & Qureshi, N. (2024, December). The need for soft skills in professors: A growing imperative for effective teaching and learning. *Annals of the Bhandarkar Oriental Research Institute*, ISSN: 03781143, VOL CI, Issue 12, UGC Care group 1 Journal 34-40.
16. Bagga, H, et al., (2024). The Impact of Soft Skills on Emotional Intelligence: Understanding Their Role in Personal and Professional Development. *Annals of the Bhandarkar Oriental Research Institute*, ISSN: 03781143, VOL CI, Issue 12, UGC Care group 1 Journal.
17. Himani Bagga, Shruti L, Janmejy Y, Yuvraj S, Madhav D(2024, December). Analysis into the importance of soft skills development in current Job Market. *Annals of the Bhandarkar Oriental Research Institute*, ISSN: 03781143, VOL CI, Issue 12, UGC Care group 1 Journal 67-75.
18. Qureshi and Chhabra (2024), Impact of Human Resource Climate and Organisational Climate on Organisational Performance , *Rabindra Bharati University Journal of Economics*, Vol:XVIII, 0975-802X
19. Narula , E . and Yashika (2024), Working Capital Management Of Muthoot Finance Corporate Limited , *Rabindra Bharati University Journal of Economics*, Page no. 81-84, Vol:XVIII, 0975-802X
20. Khanna B, (2024), Risk & Return Perception of Investors in Mutual Funds- A study of Selected cities of Haryana, *Rabindra Bharati University Journal of Economics*, Vol:XVIII, 0975-802X
21. Diwakar. (2024). Impulse buying behavior of online shopping customers with reference to big cities of Punjab. *Annals of the Bhandarkar Oriental Research Institute*, 105(12). ISSN 0378-1143
22. Diwakar. (2024, July–September). Comparative analysis of the budget of Sri Lanka and the state budget of Punjab, India. *VEETHIKA: An International Interdisciplinary Research Journal*, 10(3). E-ISSN 2454-342X
23. Kaur, A., (2024). The speciality of the anglo-saxon period, *Annals of the Bhandarkar Oriental Research Institute*, 105(12). ISSN 0378-1143
24. Kaur, A., (2024). Famous works in the middle english period, *Rabindra Bharati University Journal of Economics*, Vol:XVIII, 0975-802X
25. Sonia (2024). Role of regulatory bodies in uplifting Gems and Jewellery Sector in India: With Special Reference to Post Pandamic Period , *Internation Journal of Advanced Research in Commerce, Management & Social Science*, (IJARCMS), Vol:7, Issue: 01(2), Jan-March 2024, PP: 21-25.

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27. Bala. R, and Rani. R. (2024). GameStop and the Short Squeeze Phenomenon: Wall Street Investor Psychology and Market Volatility, Annals of the Bhandarkar Oriental Research Institute, 105(12). ISSN 0378-1143
28. Yashika (2024). A Study on Performance of Private Sector Bank in India: A Case Study of ICICI Bank, Rabindra Bharati University Journal of Economics, Page no. 24-28, Vol:XIX, 0975-802X.
29. Kaur, P., and Kaur, J., (2024). Customer Perception towards HT Media Ltd., Rabindra Bharati University Journal of Economics, Page no. 85-96, Vol:XIX, 0975-802X.
30. Kaur, A., (2024), Interpreting Freud: Media, Myth, and Psychoanalysis in the Netflix Series, Journal of Emerging Technologies and Innovative Research (JETIR), Vol. 11 & Issue 10
31. Kaur, J., and Kaur, P., (2024). Analysis of Leadership Styles and Impact in India: Before, During and After Emergency., Annals of the Bhandarkar Oriental Research Insitute, ISSN: 03781143, VOL CI, Issue 12, pp. 87-98. UGC Care group 1Journal.
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33. Kaur, P, (2024). Employee Retention of B.G Techvista. Rabindra Bharati University Journal of Economics, Vol:XIX, 0975-802X.
34. Bhanupriya, and Kaur, J., (2024). To study the HR policies of Digitech Solutions. Rabindra Bharati University Journal of Economics, Page no. 11-20, Vol:XIX, 0975-802X
35. Kaur, G., and Kanwal, J. (2024, December). Work-life balance of employees at Techno Space Education & Solution Pvt. Ltd. Rabindra Bharati University Journal of Economics, Page no. 21-33, Vol:XIX, 0975-802X.
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2. Kaur, R., Singh, J., & Kaur, K. (2025). Smart strategies of allocation resources in cloud environment. *International Journal of Current Science*, 15(1), 31-36. Available at: <https://www.rjpn.org/ijcspub/papers/IJCSP25A1004.pdf>
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#### 2.4. Journal Publications by School of Sciences

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## 2.5. Journal Publications by School of Agriculture

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3. Rani, P., Singh, A., Gupta, N., & Singh, V. (2024). Diversity of fungi associated with vegetable crops in Bathinda region of Punjab, India. *International Journal of Current Research and Academic Review*, 12(9), 91-100. Available at: <https://ijcrar.com/abstractview.php?ID=1203#>
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### 3. Publications in Conference Proceedings by different Schools of BFCET

A summary of publications in conference proceedings by different schools has been mentioned in the following Table. The school-wise brief description of these publications has been given in subsequent sections:

S. No.	Name of School	No. of Conference publications
1	School of Engineering	99
2	School of Business Studies	37
3	School of Computer Applications	16
4	School of Sciences	84
5	School of Agriculture	04

#### 3.1. Publications in Conference Proceedings by School of Engineering

The **RISEN-2025 National Conference**, jointly organized by BFCET Bathinda and MNIT Jaipur, brought together a wide range of research contributions in engineering, agriculture, and sustainability. A strong focus was placed on mechanical design innovations, including wheat atta making machines, electric golf carts, drones, robotic arms, and solar panel cleaning systems.

Sustainable technologies also featured prominently, with studies on plastic and paper recycling, wastewater treatment, bio pellet stoves, and waste-to-product development. Equally significant were advances in materials and coatings, such as high-entropy alloys, hydroxyapatite for biomedical implants, flame spray coatings, and CNC machining optimization. Parallel to these, renewable energy solutions like free energy generators, solar-powered systems, and energy-efficient bicycles highlighted the move toward green technologies.

The role of artificial intelligence (AI) and IoT emerged as a central theme across conferences, particularly ICRAMERD-2024, ICETIME-2024, and ICRDET-2024. Research demonstrated applications in cancer detection, smart irrigation, flood management, digital twins, CAD/CAM with AR, and healthcare devices. Environmental studies further strengthened the discussions, with investigations on soil improvement, water pollution, uranium contamination, and microplastics in Punjab's Malwa region. In total, approximately hundred papers presented across these platforms reflected strong collaboration, multidisciplinary innovation, and the growing alignment of technology with sustainability.

#### 3.2. Publications in Conference Proceedings by School of Business Studies

The **National Conference on Multidisciplinary Research and Innovations** (ISBN: 978-93-340-2778-5) brought together a wide range of scholarly contributions across management, business, social sciences, and literature. In management and marketing, key papers examined Apple's innovative strategies, AI-driven adaptive learning systems, HRM challenges under globalization, and the role of electronic marketing and e-recruitment. Studies also highlighted consumer behaviour in electronic advertising, rural banking through India Post Payment Bank, and emerging trends in e-marketing. Finance and governance formed another strong theme.

Research explored digital transformation and sustainable trade, investor preferences, and the impact of the New Education Policy 2020. Several contributions focused on sustainable practices in SMEs, eco-friendly corporate initiatives, reverse mortgage loans, and the Digital India program.

In the social sciences and humanities, papers addressed women's portrayal in Punjabi diaspora novels, customer retention in fast food outlets, growth of electric vehicles, Punjabi literary styles, and employee costs. Additional works emphasized work–life balance, CSR, employee motivation, and consumer behaviour. Other contributions covered women entrepreneurship, leadership styles, HR practices, workplace favouritism, stock market losses, and AI applications in marketing and accounting. Case studies on Apple, Reliance Retail, and Ford Motors further enriched discussions. Collectively, the conference showcased multidisciplinary innovation, bridging business, technology, governance, and social research.

### 3.3. Publications in Conference Proceedings by School of Computer Applications

The recent series of conferences showcased significant advancements across education, engineering, artificial intelligence, cybersecurity, and immersive technologies. One paper explored the transformative role of ChatGPT in education, analyzing its applications and implications for teaching and learning in the International Conference on Multidisciplinary Research (**CMRC-2024**, ISBN: 978-93-91535-82-7).

Several contributions focused on virtual reality user interfaces, AI-driven employability, machine learning applications, smart engineering, robotics, e-sports, and the broader role of technology in education. These works were presented in **IIPET 2024**, **Risen-25** (ISBN: 978-93-342-7367-0), and **BICON 2024** (ISBN: 978-93-83343-58-4), highlighting AI's transformative potential across diverse fields and the challenges posed by cybersecurity threats.

Additional research provided a comparative analysis of AI frameworks for deep learning applications and intelligent resource allocation techniques in cloud computing, emphasizing optimization and efficiency in technological environments. Other notable contributions included studies on virtual reality technologies and web development fundamentals, covering both front-end and back-end frameworks. Collectively, these publications underscore the intersection of emerging technologies, AI innovations, cybersecurity, and digital transformation, reflecting a multidisciplinary approach to solving contemporary challenges in education, engineering, and technology.

### 3.4. Publications in Conference Proceedings by School of Sciences

Recent conference papers presented at **NCMRI-2024**, **Phytofactories 2025**, **SPARK 2024**, and the **65th Annual International Conference of the Association of Microbiologists of India** showcased diverse advancements across science, technology, and engineering. Research included UV-Visible spectroscopy, quantum computing, neuromorphic computing, AI in healthcare, cybersecurity, and machine learning applications. Virtual reality and immersive technologies were explored for educational applications, while quantum entanglement and error correction techniques were studied for future communication and computing systems.

In engineering and IT, studies focused on high-energy physics precision, 5G and cloud computing, smart farming technologies, ethical hacking, and trends in e-commerce and M-commerce. Energy-related research addressed magnetic confinement fusion, plasma sheets, topological superconductors, and advanced energy storage solutions. Sustainability was emphasized through green materials, biodegradable packaging, green chemistry, and water conservation strategies.

In biological and health sciences, research on medicinal herbs, plant tissue culture, CRISPR-Cas9 genome editing, and bioethanol production from forestry waste highlighted innovation for practical applications. Additional studies covered astronomy, thermodynamics, radiation measurement, and nanomaterial applications. These conferences collectively reflect a strong emphasis on emerging technologies, interdisciplinary approaches, and sustainable solutions, demonstrating research with significant relevance for education, health, energy, and environmental conservation.

### 3.5. Publications in Conference Proceedings by School of Agriculture

At the Current Innovations and Technological Advances in Agriculture and Allied Sciences (CITAAS 2024), the Conference organized by Guru Kashi University, Talwandi Sabo, several impactful research papers were presented focusing on agricultural innovations. One study highlighted the incidence of *Tilletia indica* causing kernel bunt in wheat and its detrimental effects on seed quality parameters, underlining the need for effective disease management strategies. Another paper emphasized the growing importance of urban horticulture in promoting health and sustainability in today's health-conscious era.

Innovative pest control was addressed through ecological trapping of bee wax moths using standardized fruit extract solutions, offering an eco-friendly alternative for apiculture. Additionally, correlation and path coefficient analysis in sugarcane using segregating populations was explored to better understand yield-related traits for crop improvement. Together, these papers contribute valuable insights into crop protection, sustainable farming, and technological advancements in agriculture.

## 4. Details of Training/FDP/orientation/refresher courses/special lectures conducted

### 1.1. School of Engineering

S. No	Name of the course/ Topic of Lecture	Dates	Funding/sponsor	Organizer
1	AICTE VAANI Sponsored Workshop-Semiconductor: Exploring the Basics	6-7 Jun 2024	AICTE	Dr. Suman Rani
2	3 Days FDP on Personality Development	08 Jul 2024	NA	Wadhvani Foundation
3	AICTE-VAANI program titled AI and Deep Learning for Early Cancer Detection through Medical Imaging	11 Sep 2024	AICTE	Dr. Harjeet Singh and Dr. Nitika
4	5 Days Training on AR/VR/MR Technology	24 Sep 2024	NA	Schneider Electric
5	One Month Training on Python Web Developer	24 Sep 2024	ICT Academy	Infosys Foundation CSR IT Training Program
6	Workshop on "Engineering Materials and Iron-Carbon Equilibrium Diagram"	30 Sep 2024	Self	Dr Rahu Sen
7	AICTE-VAANI program titled <i>Health Care &amp; Med-Tech</i>	10 Jan 2025	AICTE	Dr. Harjeet Singh
8	4 Weeks Industrial Training on PLC & Scada	09 Jun 2025	NA	WUELEV8 Innovation Services Private Limited
9	6 Weeks Institutional Training PLC & SCACA with Energy Efficiency Building Management	09 Jun 2025	NA	WUELEV8 Innovation Services Private Limited in collaboration with EED
10	In House Industrial Exposure and Skill Enhancement Practical Learning Program (Focused on HVAC, Plumbing, Infrastructure Design & Projects)	09 Jun 2025	Self	Mr. Khyath Thakur, Godrej Industry, Mohali Dr Rahul Sen, Kamal Kumar, Lakhwinder Singh, Sumit Kumar

11	4 Weeks Industrial Training on python for 1st year students	09 Jun 2025	NA	Excellence Technology Chandigarh
12	6 Weeks Institutional Training program on Data Structures & Algorithms (DSA) with C++	09 Jun 2025	NA	Excellence Technology Chandigarh
13	4 Weeks Institutional Training on Intelligence of Things for 1st year students (IoT)	09 Jun 2025	NA	Karkhana Hub
14	4 Weeks Institutional Training on Intelligence of Things for 1st year students (AIML)	09 Jun 2025	NA	Karkhana Hub
15	Seven Day SDP on Lab Preparation for Upcoming Semester in EED	6 -14 Aug-25	NA	EED Departmental Team
16	Two Day IPR & Research Workshop on Targeting Research Outcomes through Research Proposals, Publications and Patents	7 - 8 Aug-25	NA	Dr. Vivek Sharma, Dr. Manpreet Singh and Dr. Nitin Kumar Saxena

### 1.2. School of Business Studies

S. No.	Name of the course/ Topic of Lecture	Dates	Funding/ sponsor	Organizer
1	5 Day FDP on Framing & Developing Case Studies: From Conceptualisation to Publication	28 <sup>th</sup> Jul to 1 <sup>st</sup> Aug, 2025	BFGI	Dr. Hardeep Singh, Dr. Harpreet Singh, Er. Bikram Pal Singh, Dr. Nishi Bala, Dr. Sachin Kumar
2	5 Day FDP on Empowering Research through SPSS Techniques	24 <sup>th</sup> Dec to 2 <sup>nd</sup> Jan, 2025	BFGI	Dr. Vikasdeep and Dr. Dyal Bhatnagar

### 1.3. School of Computer Agriculture

S. No.	Name of the course/ Topic of Lecture	Dates	Funding/ sponsor	Organizer
1	Problematic Soils and their Management	12 Mar 2025	Department of Agriculture, BFCET	Dr. K. B. Singh, Director, PAMETI, PAU, Ludhiana
2	Entrepreneurship in Agri-Business	19 Aug 2025	School of Entrepreneurship	Dr. Ramandeep Singh, Director, School of Business Studies, PAU, Ludhiana

### 1.4. School of Sciences

S. No.	Name of the course/ Topic of Lecture	Dates	Funding/ sponsor	Organizer
1	Data Science and Scientific Computing	03-16 Jan 2024	MTTF	Dr. Mehar Chand
2	Next- Gen AI and ML	12-18 Nov 2024	MTTF	Dr. Mehar Chand

3	Advanced Statistical Inference-ANOVA, Post-hoc Analysis & Chi-Square Tests”	21-30 Aug 2024	MTTF	Dr. Mehar Chand
4	Fundamental insights into science	28 Feb,2025	Science club BFGI	Dr. Jaswinder Singh, Shiksha Ratan awardee
5	Some interesting Facts about Pi	14- March 2025	Science club BFGI	Dr. Harmanpreet Singh Kapoor, AP Mathematics CUP Bathinda
6	Como electronics and NI lab applications	27 Feb 2025	BFGI	Mr. Kamaljeet Singh
7	Hands on insights in advanced chemical applications	27 Feb 2025	BFGI	Dr. Shaveta
8	Transformation Teaching Learning Approaches in Science, Humanities & Agriculture Science	22-26 Jul 2024	NA	Mr. Kamaljeet Singh
9	Research Article Writing & Document Preparation using AI Tools & LaTeX	21-25 Oct 2024	NA	Mr. Kamaljeet Singh
10	Effective research and proposal writing strategies	9-21 Dec 2024	NA	Ms Jaskiran Kaur
11	Effective research and proposal writing strategies	24-28 Jun 2024	NA	Dr. Jasmeet Kaur
12	Transformative teaching learning approaches in sciences, humanities and agriculture sciences	22-26 Jul 2024	NA	Dr. Jasmeet Kaur
13	Transformation Teaching Learning Approaches in Science, Humanity and Agriculture science	22-26 Jul 2024	NA	Mr. Sahil Gupta
14	Transformative learning approach in sciences, Humanities and agriculture	22-26 Jul 2024	NA	Mr. Lakhwinder Singh

## 5. MOOC Courses Completed

### 5.1. School of Engineering

S. No.	Topic of the MOOC	Dates	Organizer
1	Software Development Lifecycle	May - Jun 2024	Course Era
2	The complete AutoCAD course	20 Sep - 20 Oct 2024	Udemy
3	AI for Everyone: Master the Basics	20 Nov - 21 Dec 2024	edX
4	Basic Python	May - Jun 2024	Infosys Springboard
5	21st Century Employability Skills Course	8 Jul - 18 Jul 2024	Wadhvani Foundation

### 5.2. School of Business Studies

S. No.	Topic of the MOOC	Dates	Organizer
1	Advanced LinkedIn	21 - 26 Mar 2025	Growth School
2	Brand and Product Management	Aug - Nov 2024	Saylor Academy

### 5.3. School of Sciences

S. No.	Topic of the MOOC	Dates	Organizer
1	Molecular Biology	31 Aug - 15 Dec 2024	Department of Biomedical and Allied Health Sciences
2	Human Nutrition and Biochemistry	7 Aug - 31 Dec 2024	Department of Biomedical and Allied Health Science
3	Advanced Microbiology	1 Aug - 31 Dec 2024	Department of Biomedical and Allied Health Science
4	Fat Chance probability from ground up	24-02-2024	HarvardX
5	Social determinants of Health	20-12-2024	WHO
6	Foundations of Real World Math	January 21, 2025	Saylor Academy
7	AI for Teachers	26 Feb to 01 April, 2024	e - Learning and Data Analytics Lab, MooC for MooC Development
8	Introduction to Electromagnetism	January 2025	Saylor org. academy

## 6. Field Trips/Outreach activities

### 6.1. School of Engineering

S. No	Title of Activity	Venue with name of the Village/City	Collaborator	No. of participants
1	One Day Seminar on I4C	BFCET	NCC Unit/BFCET/20 PB BN NCC Unit Bathinda	169
2	Save Water Awareness March	Village Deon	NCC Unit/BFCET/Gram Panchayat Village Deon	93
3	National Independence Day (Participated in District Level Parade)	Bathinda	NCC Unit/BFCET/20 PB BN NCC Unit Bathinda	13
4	Poster Making Competition on Occasion of NCC Day	BFCET	NCC Unit/BFCET Deon	37
5	National Republic Day Parade	Bathinda	NCC Unit/BFCET/20 PB BN NCC Unit Bathinda	17
6	One day Cleanliness Drive	Village Bulade wala	NCC Unit/BFCET/Gram Panchayat Village Bulade Wala	137
7	Poster Making Competition on social issues	BFCET	NCC Unit/BFCET/Red Ribbon Club Bathinda	97
8	Donation Drive	Bathinda	NSS UNIT/BFCET/Birdh Asharam and Slum Areas Bathinda	132
9	One Day Workshop at Anant Ashram	Village Nathana	NSS UNIT/BFCET/ANANT	97

			ASHRAM VILLAGE NATHANA	
10	One Day in Campus Shramadaan	BFCET	NCC Unit/BFCET Deon	157
11	One Day Cleanliness Drive at Village Deon	Village Deon	NSS UNIT/BFCET/Gram Panchayat Village Deon	147
12	One Day Blood Donation Camp	BFCET	NSS Unit/BFCET/Red Cross Society	70
13	Planting a Green Tomorrow	Village Deon	NCC Unit/GSSS/Gram Panchayat (Village Deon)	63

## 6.2. School of Business Studies

S. No.	Title of Activity	Venue with name of the Village/City	Collaborator	No. of participants
1	Understanding 7Ps of marketing	Dominos Bathinda	Team Dominos and Sahil Sidana	37
2	STP Approach to Marketing	Reliance Retail, Bathinda	Team Reliance and Sahil Sidana	23
3	AIMA	Adesh Institute of Medical sciences, Bathinda	AIMA & Himani Bagga	100
4	Social etiquettes	Krishna Continental	Team Krishna Continental & Himani Bagga	23
5	Indian Business Welfare & Upliftment	Central University	Central University & Himani Bagga	85
6	Understanding Business of Chain Management	Dominos Bathinda	Team Dominos and Himani Bagga	50
7	Understanding Stock Market basics	IFS Stock Trading Academy	Team IFS and Ms. Meenakshi	22
8	Shaping Young Minds Programme	Aadesh Medical College, Bathinda	AIMA	72
9	One Day Sensitization programme on intergenerational bonding among youth.	Central University of Punjab, Bathinda	Ministry of Social Justice and Empowerment	25
10	Shaping Young Minds Programme	Aadesh Medical College, Bathinda	AIMA	27
11	One Day Sensitization programme on intergenerational bonding among youth.	Central University of Punjab, Bathinda	Ministry of Social Justice and Empowerment	80
12	Shaping Young Minds Programme	Aadesh Medical College, Bathinda	AIMA	38
13	One Day Sensitization programme on intergenerational bonding among youth.	Central University of Punjab, Bathinda	Ministry of Social Justice and Empowerment	15

## 6.3. School of Agriculture

S. No.	Title of Activity	Venue with name of the Village/City	Collaborator	No. of participants
1	Educational Visit	Bir Talab cum Deer Sanctuary, Bathinda	Agrarian Club	50
2	Kisan Mela, PAU, Ludhiana	September 13, 2024	Agrarian Club	78
3	Kisan Mela, PAU, Ludhiana	March 21, 2025	Agrarian Club	42
4	Outreach Activity: Mann Makhi Farm, Tungwali, Bathinda	March 07, 2025	Agrarian Club	45
5	Outreach Activity: Sikander Poultry Farm	October 03, 2024	Agrarian Club	43

#### 6.4. School of Sciences

S. No.	Title of Activity	Venue with name of the Village/City	Collaborator	No. of participants
1	Educational Visit	Central University of Punjab, Ghudda visit on 4-10-2024	Science Club	54
2	Educational Visit	Maharaja Ranjit Singh Punjab Technical University, Bathinda Visit on 3/04/2025	Science Club	25
3	Industrial Visit	Jay Bee Industry visit on 04/03/2025	Science Club	70
4	Science Day celebration	27-28 Feb 2025	Science Club	120
5	Pi-Day celebration	14-03-2025	Science Club	60
6	National space day celebration	23-August-2024	Science Club	75
7	Quiz competition and Treasure Hunt	28 Feb 2025	Science Club	50
8	Rangoli competition	12-03-2025	Science Club	30
9	Alumni Interaction Program	11-02-2025	Science Club	80
10	Baba Farid University of Health Sciences, Faridkot	19/3/24	Health club	45
11	Baba Farid University of Health Sciences, Faridkot	14/11/24	Health club	70
12	Parivartan CGC, Landra	08/10/24	Health club	50
13	ISF Pharmacy College, Moga	12/11/24	Health club	55
14	Delhi Heart Multi Speciality Hospital, BTi	24/11/24	Health club	30
15	Max Super Speciality Hospital, Bathinda	7/11/24	Health club	50
16	Max Super Speciality Hospital, Bathinda	20/11/24	Health club	40

17	Gold Medicos Hospital, Bathinda	24/4/25	Health club	40
18	Science Fest Day, BFGI	28/2/24	Health club	40
19	National Anaesthesia Day Celebration	16/10/24	Health club	45
20	Pragma Multi speciality Hospital, BTI	15/4/25	Health club	40
21	Biomedical Waste Treatment Plant	28/04/24	Health club	45
22	Health Camp, Ganganagar	26/04/24	Health club	04
23	Youth Festival Health Camp, BFGI	26/11/24	Health club	25
24	Cancer Awareness, BTI	20/04/25	Health club	50
25	Medicos Meet, BFGI	06/04/25	Health club	30
26	Eye & Ortho Camp, BFGI	07/10/24	Health club	30
27	Pragma Multi speciality Hospital, BTI	24/04/25	Health club	40
28	Sukhmani Diagnostic Centre	07/10/24	Health club	30
29	Guru Ramdass Hospital, Amritsar Educational Trip	08/10/2023	Health club	50
30	Max Super Speciality Hospital, Bathinda	02/05/24	Health club	35
31	Krishna Diagnostic Centre	11/07/24	Health club	40
32	Visit to Verka Milk Plant	25/10/24	Department of Biomedical and Allied Health Sciences	40
33	Herbal Trend Gidderbaha	28/10/24	Department of Biomedical and Allied Health Science	35

## 7. Seminar/Conference organized

### 7.1. School of Engineering

S. No	Title of Seminar/ Conference	Dates	Funding/ sponsor	Department
1	8th International Conference on Applied Sciences, Engineering, Technology & Management, Jakarta, Indonesia.	21st & 2nd August 2025	IFERP	Department of AIML/IOT and Department of Civil Engineering

2	National Conference on Recent Innovations in Engineering, Sciences and Networking “RISEN-2025” organized By Dept. of Mech Engineering, BFCET Bathinda in Collaboration with Dept. of Metallurgical and Materials MNIT Jaipur	25th April 2025	Self	ME
3	Workshop on 3D Structure Modelling Using STADD Pro Software	15 April 2025	BFCET	Civil Engineering
4	Webinar on Introduction to Mv DAD Cloud-Based RC Building Earthquake-Resistant Structural Design Software	24 April, 2025	BFCET	Civil Engineering
5	Workshop on Designing and Production	24 April, 2025	BFCET	Civil Engineering
6	Workshop on Emerging Trends in Modern Engineering	19 March, 2024	BFCET	Civil Engineering
7	Workshop on Bentley, Midas & ESRI Software	09 May, 2024	BFCET	Civil Engineering
8	One Day Workshop on Shell Scripting for Cyber Security	10th April, 2025	ANSH InfoTech	SSD
9	3-Day Workshop on AR/VR/MR Application Development	16– 8th April, 2025	QVOLV Technologies	SSD
10	Expert lecture on transformer industry	4th Oct. 2024	BIS	SSD
11	One Day Workshop on AI & IoT Innovation	2nd April 2025	ICT Academy	SSD
12	One Day Workshop on Modern Data Science Techniques	15th April, 2025	Pisoft Informatics	SSD
13	CPS lab workshop	10-11th April 2025	ihub-Awadh IIT Ropar	SSD

## 7.2. School of Business Studies

S. No	Title of Seminar/ Conference	Dates	Funding/sponsor
1	National Conference Organised SPARK	8 and 9 <sup>th</sup> April 2025	BFGI

## 8. Certificate/Value Added Courses organized

### 8.1. School of Engineering

S. No.	Title of Course	Dates	Collaborator	No. of Students enrolled	No. of Students Completed
1	Data Analytics and Machine Learning	Aug 2024	Intel	64	58
2	Fundamentals of 3D Printing	Aug 2024	Festo	38	32
3	Implementation of IOT using ESP32	Aug 2024	Edgate Technologies	4	4
4	Hardware Implementation of IOT	Aug 2024	Edgate Technologies	4	4
5	Basic of Internet of Things	Aug 2024	Edgate Technologies	17	15
6	AutoCAD 3d Modeling	Aug 2024	Infosys Springboard	27	27
7	3D Modeling & Printing	Aug 2024	CPS lab	38	38
8	Fundamental of Python Programing	Aug 2024	Intel	41	41
9	Web Development Essentials	Aug 2024	Shapemyskills pvt ltd	55	55
10	Analysis using STAAD Pro	Aug 2024	Infosys springboard	34	34
11	Fundamentals of Machine Learning	Aug 2024	Intel	83	83
12	Web Development Mastery	Aug 2024	Shapemyskills pvt ltd	121	106
13	Introduction to Build Up Environments	Aug 2024	CE Dept	55	55
14	Advance Concrete Technology	Aug 2024	CE Dept	42	42
15	Surveying using Electronic Distance Measurement Instrument	Aug 2024	CE Dept	28	28
16	Building Materials & Constructions	Aug 2024	CE Dept	32	32
17	Robotics and Smart Automation Solution	Aug 2024	Festo	13	13
18	3D Modelling & Printing	Aug 2024	Festo	25	25
19	IOT: Implementation and Concepts	Aug 2024	Edgate Technologies	21	21
20	Basics of Microprocessor & Microcontroller	Aug 2024	Edgate Technologies	26	26
21	Robotics and Automation using IOT	Aug 2024	Edgate Technologies	36	36
22	Advance Machine Learning	Jan 2025	Intel	57	50
23	IOT Development with ESP32	Jan 2025	Edgate Technologies	23	23
24	Basics and concepts of Augmented Reality /Virtual Reality	Jan 2025	Qvolv Technologies	122	116

25	Building Material	Jan 2025	CE Dept	36	36
26	Dental 3D Modelling and Printing	Jan 2025	ihub Awadh	16	16
27	Site Planning & Surveying	Jan 2025	CE Dept	37	37
28	Quantity and Quality Surveying	Jan 2025	CE Dept	36	36
29	IoT Concepts and Fundamentals with Arduino Uno	Jan 2025	Edgate Technologies	25	25
30	Waste Recycling and Product Development	Jan 2025	Saket Industry	31	31
31	Five-day Capsule Training for Non-Medical Senior Secondary Students On Innovative Hands-On Learning about Electrical Engineering	15-Jul-25 to 21-Jul-25	EED	55	55

### 8.2. School of Business Studies

S. No.	Title of Course	Dates	Collaborator	No. of Students enrolled	No. of Students Completed
1	Certificate Course on SPSS	Jan 2025-May 2025	NA	30	21
2	4P Model of leadership	Jan 2025-May 2025	NA	21	21
3.	Financial Literacy Course for Bharat	Aug 2024-Nov. 2024	NISM	101	101
4.	Online dispute Redressal Mechanism	Aug 2024-Nov. 2024	NISM	85	85
5.	Stock Research & Portfolio Management	Aug 2024-Nov. 2024	B-School Bulls	65	65
6.	Certification Course on banking, finance and insurance	Feb. 2025-Mar. 2025	Bajaj Finserv	42	39
7.	Certificate course in Microfinance	01/12/24	Reliance Foundation Skilling Academy	480	475
8.	30 days excel crash course	4 weeks	NA	220	185

### 8.3. School of Computer Applications

S. No.	Title of Course	Dates	Collaborator	No. of Students enrolled	No. of Students Completed
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1	Essential Java Programming Skills	01-Sep-24	NA	27	27
2	Foundation of Graphics Design	10-Feb-24	NA	24	20
3	Python For Beginners	25-Mar-25	Excellent Technology	35	35

#### 8.4. School of Agriculture

S. No.	Title of Course	Dates	Collaborator	No. of Students enrolled	No. of Students Completed
1	Intellectual Property Rights	September 04, 2024 (8 Weeks)	School of Agriculture	69	69
2	Quality Seed Grower	Feb 04 to May 16, 2024	School of Agriculture	167	167
3	Increase Students Knowledge as an Initiative Towards Skill Development	August 30 to September 30, 2024	School of Agriculture	85	85
4	Commercial Beekeeping	Feb 04 to April 28, 2024	School of Agriculture	20	20

#### 8.5. School of Sciences

S. No.	Title of Course	Dates	Collaborator	No. of Students enrolled	No. of Students Completed
1	Computer Architecture	05 July 2024	Itronix Solutions	10	10
2	Fundamentals of Laser and its applications	05 Aug-25 Aug 2025	Swayam	10	10
3	Introduction to Mechanics	17 January 2025	Saylor Academy	60	60
4	Business mathematics and statistics	14th November, 2024	Saylor Academy	39	39
5	Fundamentals of Python for Scientific Computing	10 Feb 2025	MTTF	62	62
6	Molecular Biology	31 August 2024 to 15 December 2024	Swayam	163	163
7	Human Nutrition and Biochemistry	7 August 2024 to 31 December 2024	Swayam	55	55
8	Advanced Microbiology	1 August 2024 to 31	Swayam	70	70

		December 2024			
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## 9. Details of Awards/Honours/Fellowship received

### 9.1. School of Engineering

S. No.	Name of Faculty Member/ Student who received award	Name of the award	Organization conferring award	Department
1	Dr. Jimmy Gupta	Keynote Speaker (Honours)	1st International conference on Applied Science, Business & Management, Engineering & Technology, Chennai	Department of AIML/IOT
2	Er. Tanu Taneja	Best Teacher	ISTE	Civil Engineering
3	Dr. Jimmy Gupta	Keynote Speaker (Honours)	8th International Conference on Applied Sciences, Engineering, Technology & Management, Jakarta, Indonesia	Department of AIML/IOT
4	Dr. Nimisha Singh and Dr. Amandeep Singh	Samridhi 4.0	ihub-Awadh, IIT Ropar	SSD
5	Dr. Nitin Kumar Saxena	Expert talk on “Ethical Writing of Research Papers for SCI Journals”	RPS Group of Institutions, Balana, Mahendergarh (HR) on 23 August, 2025	EED

### 9.2. School of Business Studies

S. No.	Name of Faculty Member/ Student who received award	Name of the award	Organization conferring award
1	Sahil Sidana	Guest of Honour under Industry Academia Meet	Guru Gobind Singh College of Engineering & Technology, Gidderbaha
2	Mr. Gurpreet Singh	Guest of Honour	Patiala
3	Mr. Simranjit Singh	Guest of Honour	Central University of Punjab

### 9.3. School of Computer Applications

S. No.	Name of Faculty Member/ Student who received award	Name of the award	Organization conferring award
1	Dr. Tejinder Singh	Research Development	MTTF
2	Dr. Manish Bansal	Leadership Award	MTTF

#### 9.4. School of Agriculture

S. No.	Name of Faculty Member/ Student who received award	Name of the award	Organization conferring award
1	Noordeep and Jasnoor Preet Kaur	2 <sup>nd</sup> Prize in Oral Presentation in SPARK Conference in Natural Sciences Theme	BFCMT, BFGI
2	Dr. Jashandeep Singh Sidhu, Lovepreet Singh, Arman Singh, Pushpinder Singh	1 <sup>st</sup> Position in Project Pulse 2.0	BFGI
3	Ms. Parbhjot Kaur, Baljinder Singh, Abu Nasir	2 <sup>nd</sup> Position in Project Pulse 2.0	BFGI
4	Dr. Tabassum, Charu Goyal, Himanshu	3 <sup>rd</sup> Position in Project Pulse 2.0	BFGI

#### 9.5. School of Sciences

S. No.	Name of Faculty Member/ Student who received award	Name of the award	Organization conferring award
1	Gaurav Punani , B.Sc Hons Maths 3 <sup>rd</sup> Year	Ist Position in Spark	BFCMT, BFGI
2	Arshdeep Kaur B.Sc CS ist year	2 <sup>nd</sup> Position in Spark	BFCMT, BFGI
3	Dr. Pooja Sharma, Sanamdeep Singh, Sonia Rana, Sonia Malik	1 <sup>st</sup> Prize in Oral Presentation in SPARK 2025 (2.0) Conference	BFGI
4	Dr. Pooja Sharma	Marie Curie Young Researcher Award	MTTF Punjab; Sharda University Delhi
5	Dr. Sonia Malik	Fellow Researcher Award	Plant Research Society, India

### 9. Institution's Innovation Council (IIC)

The Institution's Innovation Council (IIC) was established in the academic session 2020–21 and has shown consistent progress in promoting innovation and entrepreneurship. Since its inception, the institute has actively participated in IIC Rankings—achieving a 3-star rating in 2020–21 and 2021–22, a 1.5-star rating in 2022–23, and regaining 3-star status in 2023–24.

The IIC has organized several impactful events such as the Global Hackathon, ICAN, CODEVISTA, and PITCHPULSE (a grand funding event), in collaboration with the Baba Farid School of Entrepreneurship (BFSOE) and the IPR Cell, BFGI. It has also hosted programs like the

Entrepreneurship Awareness Program with MSME delegates. BFSOE, an MSME-HI Incubation Centre registered under the Societies Registration Act, 1860, supports startups, enterprises, faculty, and students through technical and business assistance.

The IIC comprises 21 faculty and staff members, 12 student members, and four external experts including Mr. Nitin Verma (Big Data, NORDIA Ventures, Mohali), Mr. Ajay Kumar (Startup Expert, Enovate Skill), Mr. Ashish Sharma (Patent Expert, NCR Office, Delhi), and Ms. Neha Goyal (Director-Patent, UniPatrde Consultants LLP, Noida). Together, they strengthen innovation and patent facilitation through collaborative efforts with the Incubation and IP Facilitation units, fostering a culture of creativity and entrepreneurship.

### Highlight Achievements

Number and Different types of I & E and IPR activities Conducted	63
No. of student's & faculty ideas generated	54
No. of student's & faculty Innovation/prototypes developed	30
No. of IPs generated, published and granted	52
No. of Student & Faculty Start-ups/Ventures established.	1
Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	2,00,000/-
Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	9,45,000/-
No. of Technology Transfer and Commercialisation happened	1

## 10.IPR Cell

The IPR Cell continues to foster innovation, creativity, and research excellence. Through its dedicated consultancy and service centre, the institution has strengthened its role as a regional hub for intellectual property facilitation, research proposal development, and industry–academia collaboration across the Malwa region of Punjab.

### Annual IPR Performance (2024–25)

Category	Count
Patents Granted	09
Patents Published	58
Copyrights Registered	04
Total IPRs (Patents + Copyrights)	71

### Major Achievements

- Significant rise in faculty- and student-led patent filings, reflecting a strong culture of research and innovation.
- 100+ IPRs filed and supported cumulatively through the BFGI Consultancy and Service Centre for IPR & Research Proposal Writing.
- Capacity-building programs organized on patent filing, copyright registration, and proposal development for government funding.

- Enhanced industry collaborations through innovation-driven projects and joint research proposals.
- Recognition of BFGI as a regional leader in IPR facilitation and innovation promotion.

### Financial Overview & Final Outcomes

Component	Amount (₹)
Patent Incentives to Faculty	3,45,000/-
Patent Filing & Processing Fees	15,85,290/-
<b>Total Investment</b>	<b>19,30,290/-</b>

### Final Outcomes

- Strengthened institutional research reputation and patent portfolio.
- Enhanced opportunities for research funding and industrial collaborations.
- Development of a sustainable ecosystem for innovation, entrepreneurship, and intellectual property protection at BFGI.

### List of Granted Patents

Sr. No.	Patent Application No.	Patent Application Title	Date of filing	Inventor	Applicant	Status
1	202111040325	Adjustable Drain Cleaner Machine	06 <sup>th</sup> Sep 2021	Dr. Manpreet Singh Mr. Sachin Kumar Mr. Jashandeep Singh Mr. Parmjeet Kumar Dr. Nimisha Singh Er. Harsimran Singh	BFCET	Granted (05-1-24)
2	202211036593	A Magneto-Rheological (Mr) Machining System	8 <sup>th</sup> July 2022	Dr Manpreet Sunil Kumar Paswan	BFCET BFC	Granted 18-01-24
3	202211033867	REFRIGERATOR TRAY ADJUSTMENT SYSTEM	14 June 2022	Dr Manpreet Mr Kiran Beri Sunil Kumar Paswan Dr Tejinder Pal Singh Saraon	BFCET BFC	Granted 25-01-24
4	202211053534	Shoulder, Hand And Head Supported Brick Picker	23 <sup>rd</sup> Sep 2022	Dr Manpreet Karan Beri Raman Kumar Arman Singh Dr Jyoti Bansal Er Sumit Singh	BFCET BFC	Granted 22-02-24
5	202211031264	DOOR STOPPER FOR REFRIGERATOR	01 June 2022	Dr Manpreet Mr Kiran Beri Sunil Kumar Paswan Dr Tejinder Pal Singh Saraon	BFCET BFC	Granted 15-03-24

6	202211031264	Brick Mould With A Plurality Of shear Keys	21 <sup>st</sup> January, 2022	Er. Pankaj Mittal Er. Rajan Vinayak Er. Tanu Mr. Ayush Raj Mr. Rahul Sharma Mr. Harpreet Kumar Mr. Manpreet Singh	BFCET	Granted 26-04-24
7	202211008018	A Foot Lever Enabled Chaff Cutter	15 Feb 2022	Dr. Ankit Kumar Dr. Wineet Chawla Gagandeep singh Gurpreet Sharma Babnish Kumar Dilbag Singh Gurpreet Kamboj Amrik Singh Sukhmanpreet Singh	BFC BFCET	Granted 29-04-24
8	202111025119	Ultrasonic Sensor System Using Arduino and Methods Thereof	07 June 2021	Pushpinder Sharma, Harsimran Singh, Jyoti Bansal, Tejinderpal Singh and Tanu Taneja	BFCET	Granted 28-08-24
9	202311004607	Calcium Doped BiFeO <sub>3</sub> -PBTiO <sub>3</sub> solid solution with enhanced Multiferroic Properties	24 Mar 2025	Dr. Jaswinder Pal Dr. Anupinder Singh Dr. Sunil Kumar	BFC	Granted (24-3-2025)

## 11. Sports

S. No.	Name of activity	Date	No. of Students /Participated	Remarks
1	Badminton	11-05-2024	10 (5 Boys /5 Girls)	Inter college
2	Volleyball Smashing	14/11/2024	12 (Boys)	Inter college
3	Basketball	13/11/2024	12 (Boys)	Inter college
4	Cricket	03-03-2024	16 (Boys)	Inter college
5	International Yoga Day	21/06/2024	60 (20 Boys/ 40 Girls)	Internal Activity
6	Chess	13/8/2024	40 (10 Girls/ 30 Boys)	Internal Activity
7	Basketball Tournament	10-04-2024	120 (Boys)	Internal Activity
8	Cricket	28/10/2024	240 (Boys)	Internal Activity
9	Volleyball Shooting	29/8/2024	320 (Boys)	Internal Activity
10	Badminton	17/02/2025	70 (50 Boys/ 20 Girls)	Internal Activity
11	Athletic Meet	04-11-2025	227 (174 Boys / 53 Girls)	Internal Activity
	<b>Total</b>		<b>1127</b>	

## 12. NCC Activities

S. No.	Name of Activity	Collaborator	Venue	Date
1	One Day Seminar on I4C	NCC Unit/BFCET/20 PB BN NCC Unit Bathinda	BFGI	09 Aug 2024
2	Save Water Awareness March	NCC Unit/BFCET/Gram Panchayat Village Deon	Village Deon	13-Sep-24

3	National Independence Day (Participated in District Level Parade)	NCC Unit/BFCET/20 PB BN NCC Unit Bathinda	Bathinda	15 Aug 2024
4	Poster Making Competition on Occasion of NCC Day	NCC Unit/BFCET Deon	BFCET	27 Nov 2024
5	National Republic Day Parade	NCC Unit/BFCET/20 PB BN NCC Unit Bathinda	Bathinda	26 Jan 2025
6	One day Cleanliness Drive	NCC Unit/BFCET/Gram Panchayat Village BuladeWala	GSSS Village Buladewala	10-Feb-25
7	Poster Making Competition on social issues	NCC Unit/BFCET/Red Ribbon Club Bathinda	BFCET	3-Mar-25
8	One Day in Campus Shramadaan	NCC Unit/BFCET Deon	BFCET	8 April 25

- Achieved Gold Medal in Volleyball Match During ATC – 92 Held at 2PB R&V NCC unit Ghudha
- One of Our Cadet SUO Achieved Best Cadet Award in ATC-92 Held at 2 PB R& V NCC unit Ghudha.

### 13. NSS Activities

S. No.	Name of Activity	Collaborator	Venue	Date
1	Donation Drive	NSS UNIT/BFCET/Birdh Asharam and Slum Areas Bathinda	Bathinda	14 nov 2024
2	One Day Workshop at Anant Ashram	NSS UNIT/BFCET/ANANT ASHRAM VILLAGE NATHANA	Nathana (Dist. Bathinda)	5 feb 2025
3	One Day in Campus Shramadaan	NCC Unit/BFCET Deon	In Campus	30 oct 2024
4	One Day Cleanliness Drive at Village Deon	NSS UNIT/BFCET/Gram Panchayat Village Deon	Village Deon	22 Oct 2024
5	5 Days Cleanliness and Plantation Drive	NSS Unit/BFCET/Gram Panchayat behman Diwana, Deon and Virk	Village Behman Diwana, Deon and Virk	16 sep - 20 sep 2024
6	One Day Blood Donation Camp	NSS Unit/BFCET/Red Cross Society	Red Cross Society	13 march 2025

1. Recognition Letter from Gram Panchayat Behman Diwana for One day Cleanliness Drive and Tree Plantation
2. Recognition Letter from Civil Hospital Bathinda for Blood Donation.
3. Recognition Letter from Gram Panchayat Virk for One day workshop at Anant Ashram.

### 14. Other Important Events

#### 14.1. School of Engineering

- **Industry-Academia Meet**

The Industry-Academia Meet held on October 24, 2024, at Baba Farid Group of Institutions (BFGI), Bathinda, aimed to strengthen collaboration between academia and industry by promoting knowledge exchange, skill development, and innovation. The event featured an inaugural ceremony and exhibition showcasing advanced technologies from 35 companies, including Qvolv Technologies, Mahashakti Energy Limited, Testwel Scientific, and Jio. The discussions focused on aligning academic programs with industry needs, addressing skill gaps in core engineering fields, and promoting hands-on training through initiatives like Campus Connect. Industry experts emphasized the shortage of professionals in mechanical, electrical, and civil branches and urged academia to integrate practical training and problem-solving approaches.

Key outcomes included the launch of skill development programs, creation of customized training modules, and the appointment of industry experts for student mentorship. Several MoUs were signed with companies such as MdcZrk Export World, Pisoft Informatics, and Dashmesh Agro Industries to foster research and innovation partnerships. Leaders including Dr. Gurmeet Singh Dhaliwal and Dr. Jyoti Bansal highlighted the event's significance in bridging the gap between education and industry. The meet concluded with a vote of thanks and networking session, marking a milestone in collaborative growth and innovation.

- **24th ISTE Annual National Students' Convention**

The ISTE Student National Convention is centered on exploring the pivotal role of technical innovations in driving social reforms. Advancements in technology significantly impact education, healthcare, and communication. E-learning platforms make education accessible to remote areas, bridging the urban-rural gap. Telemedicine revolutionizes healthcare, ensuring services reach underserved populations. Social media fosters global awareness and mobilization for social causes. Renewable energy innovations address environmental challenges, promoting sustainable development. Integrating technical innovations into societal frameworks enhances quality of life and propels us toward a more equitable and inclusive society. Embracing these advancements is essential for sustainable social progress.

- **National Conference 'RISEN 25'**

The Department of Mechanical Engineering, Baba Farid College of Engineering and Technology (BFCET), Bathinda, in collaboration with the Department of Metallurgical & Material Engineering, Malaviya National Institute of Technology (MNIT) Jaipur, organized a prestigious one-day National Conference on "Recent Innovations in Science, Engineering, and Networking" (RISEN-25) on April 25, 2025. The conference began with the registration of participants, followed by an Inaugural Session graced by eminent personalities. The session commenced with a welcome address and introduction about the Conference by Head of Mechanical Engineering department, Dr Tejinder Pal Singh Sarao. Prof. M.P. Poonia, Campus Director, BFGI Bathinda was the Chief guest and Prof. Ujjawal Kalla from NIT Delhi and Dr. Randhir Kumar Singh from MNIT Jaipur, were the special guests during the inaugural session. Three keynote talks were delivered by these eminent experts on Environment Sustainability. The inaugural session concluded with a vote of thanks by the Principal of BFCET Dr Jyoti Bansal.

More than 200 research papers were received in the conference. The technical sessions witnessed enthusiastic participation from students and researchers who presented their innovative ideas and research work. The conference culminated with a Valedictory Session which included a warm welcome

of dignitaries, announcement of awards and prize distribution. Dr Jyoti Bansal, Principal BFCET given cash prizes to the winners for the best presentations.

The event concluded with the vote of thanks by Dr. Rahul Sen, Associate Professor, Mechanical Engineering Department and Coordinator of conference. He thanked all BFGI dignitaries and Prof. Upender Pandel and Prof R.K Goyal from MNIT Jaipur, all conference organizing team and judges for their contribution in success of conference. With over 30 years of proud legacy, BFCET Bathinda, an NAAC Grade A+ accredited institution, once again demonstrated its commitment to academic excellence and fostering innovation through RISEN-25. The conference served as a significant platform for knowledge exchange and networking among academicians, researchers, and students.

- **Global Hackathon**

Baba Farid College of Engineering and Technology (BFCET) successfully organized the *Global Hackathon – BFCET HACK 2.0* from 8<sup>th</sup> – 9<sup>th</sup> March 2025, in collaboration with iHub AWaDH, IIT Ropar, under the guidance of Hon'ble Dr. Gurmeet Singh Dhaliwal (Chairman, BFGI), Dr. M.P. Poonia (Campus Director, BFGI), and Dr. Jyoti Bansal (Principal, BFCET). The event received an overwhelming 810+ registrations from reputed national and international institutions including IIT Madras, IIT Ropar, Chitkara University, Chandigarh University, and participants from the UK, Bangladesh, Australia, and Canada.

The hackathon featured prominent speakers such as Dr. Radhika Trikha (CEO, iHub AWaDH, IIT Ropar), Mr. Sunchit Dudeja (SDE-V @MAANG), Mr. Pratik Pathak (MCT, Microsoft), Mr. Ayon Roy (Data Scientist, NielsenIQ), and Mr. Maninder Singh (iOS Developer, Cars24). Their sessions inspired participants with insights on technology, innovation, and career growth.

The 36-hour event saw 50 teams developing innovative solutions to real-world challenges. *Team ANON* from Chandigarh University secured the first prize of ₹51,000, followed by *Team 4Five6* (BFCET) and *Team Enthyzum-Eta* (Chandigarh University). The event concluded with gratitude expressed by Dr. Nimisha Singh (Dean, SSD), highlighting the hackathon's success in promoting creativity, collaboration, and global technological excellence.

## **14.2. School of Business Management**

- **Five-Day Master Workshop on Stock Market Analysis**

The Five-Day Master Workshop on Stock Market Analysis at Baba Farid College of Engineering and Technology, Bathinda, provided participants with a comprehensive learning experience in both theoretical and practical aspects of stock market trading. Led by Mr. Deepak Bansal and organized in collaboration with IFC Trading Academy, the workshop covered fundamental and technical analysis, risk management, and investment strategies. Through interactive sessions, hands-on exercises, and real-world case studies, participants gained valuable skills to make informed investment decisions while also networking with like-minded peers interested in the stock market.

- **SEO Workshop**

The Five-Day SEO Workshop at Baba Farid College of Engineering and Technology, Bathinda, organized by Ms. Rudhara Nagpal, provided staff and students of BBA and MBA programs with comprehensive training in search engine optimization. Participants gained both theoretical knowledge and practical skills in optimizing websites,

improving search rankings, and implementing effective digital marketing strategies. The workshop also enhanced analytical and technical abilities, boosted confidence in online marketing, and offered opportunities for networking and collaboration among attendees.

- **Squadra 2.0**

Baba Farid College of Engineering & Technology, Bathinda, hosted SQUADRA 2.0 on 28th March 2025, an engaging event that combined creativity, corporate skills, and entertainment. Students participated in three exciting segments—the Corporate Fashion Show, Decision Dilemma, and Ad-Mad Show—showcasing confidence, problem-solving abilities, and innovative thinking. The event concluded with the announcement of the Mr. and Mrs. Squadra winners, celebrating talent, charisma, and creativity while providing a fun and interactive platform to experience corporate challenges.

- **Sales Shark 25**

“Sales Shark’ 25,” organized by the Department of Business Studies at Baba Farid College of Engineering & Technology, Bathinda, was a dynamic event aimed at providing students with hands-on experience in sales, marketing, finance, and storekeeping management. Ten teams participated in various challenges that tested their business acumen, strategic thinking, and creativity. The event offered a platform for applying theoretical knowledge to practical scenarios, recognized outstanding performers in multiple categories, and enhanced participants’ problem-solving, marketing, and managerial skills.

### 14.3. School of Sciences

- On the occasion of Science Day, No. of events are conducted including Poster making, Treasure Hunt, Quiz and hands on workshops based on Physics and Chemistry concepts in which more than 120 students have participated.
- Workshop on Python Basics in collaboration with MOU signed MTT Foundation has been conducted in which almost 45 students have participated and learn basics about PYTHON.

- **MEDICOS 2025**

The Department of Biomedical and Allied Health Sciences at Baba Farid Group of Institutions successfully hosted **MEDICOS 2025**, a healthcare and academic meet, on 6th April 2025 at the BFGI campus. The event aimed to bridge the gap between academia and the healthcare industry by creating a platform for collaboration, skill enhancement, and real-time learning opportunities for students. Coordinated by Ms. Manjot Kaur, Dr. Uttam Gupta, and HOD Dr. Ritu Pawan, the meet was attended by representatives from various hospitals, diagnostic centres, and healthcare institutions. The primary focus was on providing students of Paramedical and Allied Health Sciences with practical exposure and strengthening industry linkages. During his address, Campus Director Dr. M.P. Poonia emphasized the “Earn While You Learn” policy, development of ICT skills, entrepreneurship, improved laboratory infrastructure, and participation in community initiatives such as the Unnat Bharat Abhiyan and school health camps. He also highlighted the importance of internships, hospital collaborations, AI-driven data libraries, and the development of software applications to streamline communication between students and hospitals.

The meet also featured insights from Dr. Manish Bansal, Principal, who explained BFGI’s Applied Learning Policy, allowing students to prioritize hands-on learning over attendance requirements, with 123 students currently benefiting from the scheme. Discussions further covered opportunities in

research, the Ayushman Bharat Scheme, salary concerns in the healthcare sector, and the growing importance of industry-academia partnerships. The signing of **MOUs and POPs** with Sharda Multispecialty Healthcare and Delta Scan Centre marked a major step toward securing continuous learning and recruitment avenues for students. The event concluded with a vote of thanks and the distribution of tokens of appreciation to delegates, faculty, and students for their contributions. Overall, **MEDICOS 2025** was a landmark event in fostering **academic-industry partnerships** and encouraging **practical-based learning** for Paramedical and Allied Health Sciences students. The overwhelming participation and insightful discussions underscored the urgent need for continued dialogue, infrastructure improvements, and collaborative innovations to ensure the holistic development of future healthcare professionals

#### **14.4. School of Agriculture**

Punjab State Council for Agricultural Education has approved from 2025 to 2030 for Running B. Sc. (Hons.) Agriculture 4 Year Programme.

- **The Agri-Preneur Summit 2025**

**The Agri-Preneur Summit 2025** was organized by the School of Agriculture, Baba Farid Group of Institutions (BFGI) on 19th March 2025, under the initiative of the EIC Students Club. The summit aimed to build a strong linkage between academia and agriculture-based industries to foster collaborative growth, skill development, innovation, and entrepreneurship. The event witnessed nineteen enthusiastic participants from various agriculture and allied sector industries and entrepreneurs. Active engaged in productive discussions with faculty members and students, aligning with the predefined objectives such as promoting student training, real-world problem-solving, research collaborations, and exposure to modern agricultural technologies gave rise to five eminent Professors of Practice (PoP) *viz.*, Mr. Vinod Jyani (Jyani Natural Farm), Advocate Lakhvir Singh, Dhillon (Dhillon Mushroom Farm), Mr. Gurcharan Singh Mann (Maan Makhi Farm), Mr. Amninder Singh Brar (Amninder Poultry Farm) and Mr. Gursewak Singh (Progressive Farmer – Organic Farming). Additionally, two Memorandums of Understanding (MoUs) were signed with Jyani Natural Farm and Guntaas Vermicompost to formalize long-term collaborations involving training, internships, research, and innovation-driven initiatives.