

Report on AI & Innovation Sprints: Rapid Prototyping for Digital Transformation

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Date.5th December,2025

Introduction

A session on “**AI & Innovation Sprints: Rapid Prototyping for Digital Transformation**” was conducted to provide insights into how modern organizations leverage Artificial Intelligence (AI) and innovation methodologies to accelerate digital transformation. The session emphasized the importance of speed, creativity, and iterative development in today’s competitive environment.

Key Speaker

The keynote address was delivered by **Prof. Kamini**, an expert in the field of Artificial Intelligence and innovation strategies. She shared valuable knowledge drawn from both academic research and industry practices.

Objectives of the Session

- To understand the concept of AI-driven innovation
- To explore the role of innovation sprints in rapid prototyping
- To learn how digital transformation is accelerated through agile methods
- To highlight real-world applications of AI in various sectors

Key Highlights

Prof. Kamini explained that **AI is transforming industries** by enabling smarter decision-making, automation, and predictive analytics. She introduced the concept of **Innovation Sprints**, which are short, focused cycles aimed at solving problems quickly through ideation, prototyping, and testing.

The session covered:

- **Rapid Prototyping:** Creating quick models or solutions to test ideas before full-scale implementation
- **Design Thinking Approach:** Understanding user needs and building solutions accordingly
- **Agile Methodology:** Continuous improvement through iteration and feedback
- **AI Integration:** Using machine learning and data analytics to enhance innovation

Importance of Innovation Sprints

Innovation sprints help organizations:

- Reduce development time
- Minimize risks by early testing
- Encourage collaboration and creativity
- Deliver user-centric solutions

Applications Discussed

The speaker highlighted applications of AI and rapid prototyping in:

- Healthcare (diagnosis and predictive systems)
- Education (personalized learning platforms)
- Business (automation and customer insights)
- E-commerce (recommendation systems)

Conclusion

The session concluded with the insight that combining **AI with**

innovation sprints enables organizations to adapt quickly and stay competitive in the digital age. Prof. Kamini encouraged participants to adopt a mindset of continuous learning, experimentation, and innovation.



Photograph



Workshop on AI Tools

A Workshop on AI Tools was successfully organized on 5 October 2025 at the ICT Room, Department of Computer Science. The workshop was conducted under the able leadership and guidance of Dr. Amandeep Heera, Principal, whose constant support and encouragement contributed significantly to the success of the event.

The workshop aimed to create awareness about the applications

of Artificial Intelligence tools among faculty members, researchers, entrepreneurs, and students from different schools. The program focused on enhancing understanding of AI concepts and their practical use in academics, research, and real-life problem-solving.

The resource person, Dr. Ajay Dutta, delivered an insightful and informative lecture on emerging AI tools and their applications. He explained the fundamentals of Artificial Intelligence and demonstrated the use of various AI-based tools for content creation, teaching support, research assistance, and productivity enhancement. He also highlighted the importance of ethical and responsible use of AI.

To make the workshop more interactive and engaging, AI-based games and hands-on activities were organized, especially for students from different schools. These games were designed to introduce core AI concepts such as logical thinking, pattern recognition, decision-making, and problem-solving in a fun and practical manner. Students participated enthusiastically, which created a lively and learner-friendly environment.

The interactive sessions encouraged curiosity, creativity, and active participation among students. Faculty members and researchers also appreciated the innovative approach of using games to explain complex AI concepts in a simple and effective way.

The workshop concluded with a vote of thanks, acknowledging the efforts of the organizing committee, the guidance of the Principal, and the valuable contribution of the resource person. Overall, the workshop was highly informative, interactive, and beneficial for all participants.

Inter-School Competition 2025

From Concept to Click: Creating Effective GUI Designs

From Concept to Click: Creating Effective GUI Designs

Organized by:

Institution's Innovation Council (IIC)

in collaboration with the

Department of Computer Science,

Babbar Akali Memorial Khalsa College, Garhshankar

Date: 13th October 2025

Venue: ICT Lab

Objective of the Event

The main objective of this event was to enhance students' understanding of **Graphical User Interface (GUI) Design** and to develop their skills in creating user-friendly, visually appealing, and functional digital interfaces. The session focused on bridging the gap between concept development and design implementation in modern applications.

Event Overview

The Department of Computer Science, in association with the **Institution's Innovation Council (IIC)**, organized an insightful session titled **"From Concept to Click: Creating Effective GUI Designs."**

The event was convened by **Asst. Prof. Kamini** and moderated by **Asst. Prof. Navjot Kaur**, under the guidance of **Dr. Ajay Dutta (HOD)** and **Dr. Amandeep Heera (Principal)**.

During the session, students learned the fundamentals of **GUI design principles**, including color theory, layout structuring, typography, and user interaction flow. The event emphasized the role of GUI in enhancing user experience (UX) and its importance in software and app development.

Students also showcased their own GUI design ideas through demonstrations and presentations, displaying creativity and technical skills.

Key Highlights

- Introduction to GUI design principles and modern design trends.

- Discussion on tools and technologies for GUI development (such as Figma, Canva, and Python Tkinter).
 - Practical examples showing how effective GUI design enhances usability and user engagement.
 - Presentations by students demonstrating prototype designs and creative UI layouts.
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Convenor & Moderator

- **Convenor:** Asst. Prof. Kamini
 - **Moderator:** Asst. Prof. Navjot Kaur
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Outcome of the Event

The event successfully enabled students to understand the importance of design thinking and user interface development in software engineering. Participants gained hands-on exposure to GUI concepts and were motivated to apply these principles in their future academic and project work.

The event also encouraged innovation, creativity, and teamwork among students while aligning with the goals of the **Institution's Innovation Council (IIC)**.

Conclusion

The event **"From Concept to Click: Creating Effective GUI Designs"** proved to be an engaging and skill-oriented session

for Computer Science students. It enhanced their technical and creative abilities, preparing them for real-world application design challenges.

The Department of Computer Science continues to organize such activities to nurture innovation, creativity, and practical knowledge among students.







Digital Empowerment: Transforming India into a Smart Nation

Organized by:

Institution's Innovation Council (IIC)

in collaboration with the

Department of Computer Science,

Babbar Akali Memorial Khalsa College, Garhshankar

Date: 13th October 2025

Venue: ICT Lab

Objective of the Event

The objective of this event was to promote awareness about **Digital Empowerment** and highlight how digital technologies are transforming India into a **Smart Nation**. The session aimed to motivate students to explore digital tools, e-governance platforms, and innovations that contribute to national development through digitalization.

Event Overview

The Department of Computer Science, in collaboration with the Institution's Innovation Council (IIC), organized an event titled "**Digital Empowerment: Transforming India into a Smart Nation.**"

The event was convened by **Asst. Prof. Narinder Jit Kaur** and moderated by **Asst. Prof. Jagjivan Kaur**, under the guidance of **Dr. Ajay Dutta (HOD)** and **Dr. Amandeep Heera (Principal)**.

Students of **BCA 1st Semester** actively participated by preparing and presenting PowerPoint presentations on various themes related to **Digital India, Smart Governance, E-services, Artificial Intelligence in Digital Transformation, and Cyber Security Awareness**.

Each group of students showcased their understanding of how technology is shaping the socio-economic development of India. The presentations reflected creativity, research skills, and awareness of national digital initiatives.

Key Highlights

- PowerPoint presentations by BCA 1st Semester students on digital empowerment themes.
- Discussion on initiatives like Digital India, Smart Cities Mission, and online public service delivery.
- Emphasis on how youth can contribute to India's vision of becoming a **digitally empowered knowledge economy**.
- Interactive session between students and faculty members encouraging critical thinking and innovation.

Convenor & Moderator

- **Convenor:** Asst. Prof. Narinder Jit Kaur
- **Moderator:** Asst. Prof. Jagjivan Kaur

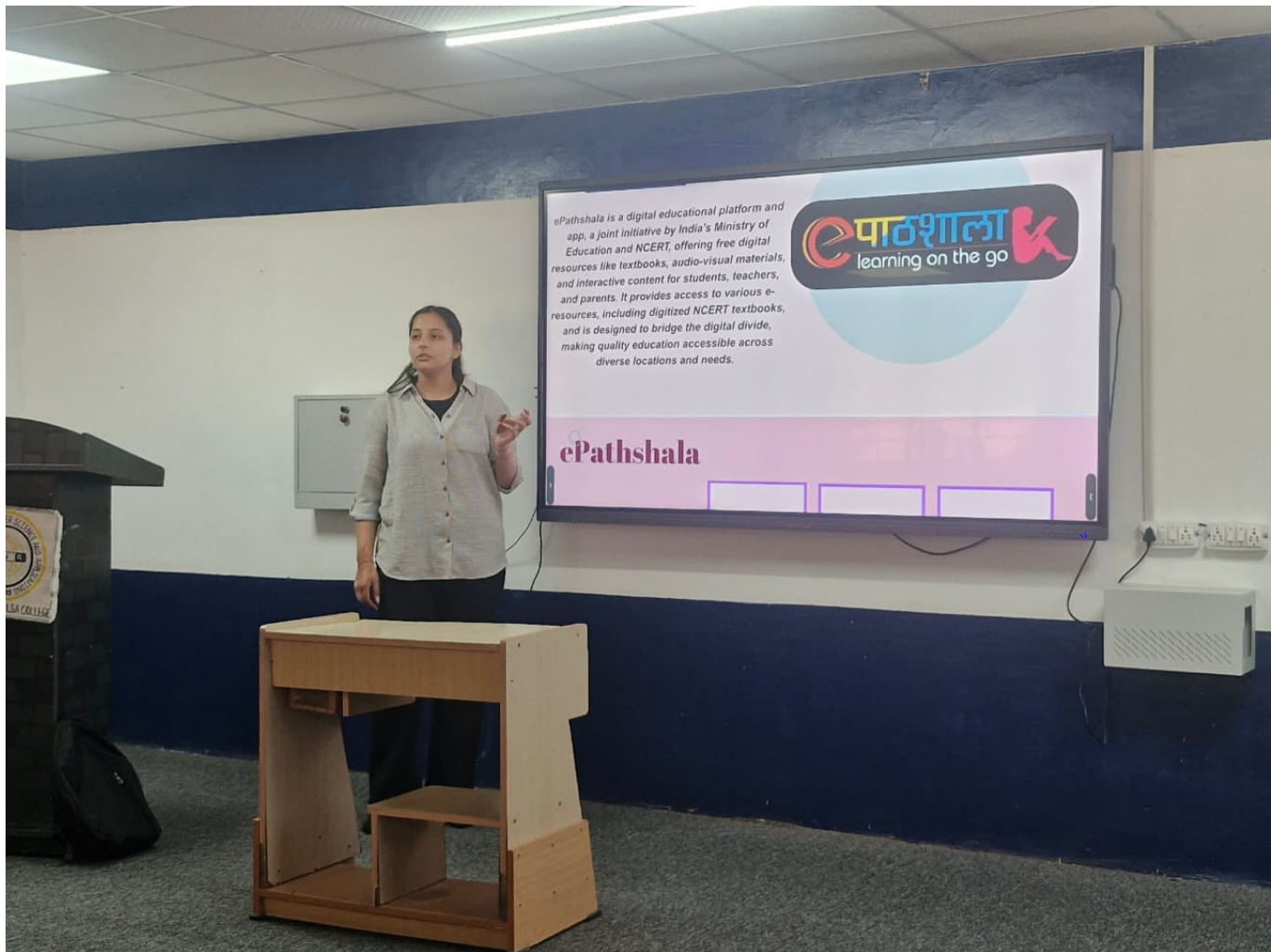
Outcome of the Event

The event successfully enhanced students' understanding of digital transformation and its role in nation-building. It encouraged them to embrace technology not only as a career path but also as a means to contribute to India's growth as a Smart Nation. Students gained confidence in presenting, researching, and collaborating effectively.

Conclusion

The event **“Digital Empowerment: Transforming India into a Smart Nation”** was a great learning experience for the students of **BCA 1st Semester**. It aligned perfectly with the goals of the Institution’s Innovation Council (IIC) by fostering innovation, digital literacy, and entrepreneurial thinking among young learners.





ePathshala is a digital educational platform and app, a joint initiative by India's Ministry of Education and NCERT, offering free digital resources like textbooks, audio-visual materials, and interactive content for students, teachers, and parents. It provides access to various e-resources, including digitized NCERT textbooks, and is designed to bridge the digital divide, making quality education accessible across diverse locations and needs.

eपाठशाला
learning on the go

ePathshala



Some common use platform

- 1 Facebook
- 2 YouTube
- 3 Snapchat
- 4 Instagram
- 5 WhatsApp

From Strategy to Success: Using SWOT and AI Tools in Your Startup Journey

Organized by:

Institution's Innovation Council (IIC)

in collaboration with the

**Department of Computer Science, Babbar Akali Memorial Khalsa
College, Garhshankar**

Date: 11th October 2025

Time: 11:00 AM

Venue: ICT Lab

Objective of the Event

The main objective of this event was to enhance students' understanding of how to effectively use SWOT (Strengths, Weaknesses, Opportunities, and Threats) analysis and Artificial Intelligence (AI) tools to build, evaluate, and grow their startup ideas. The session aimed to bridge the gap between theoretical business strategy and practical AI-driven decision-making in entrepreneurship.

Event Overview

The session titled "*From Strategy to Success: Using SWOT and AI Tools in Your Startup Journey*" was conducted under the

banner of the Institution's Innovation Council (IIC) in collaboration with the Department of Computer Science. The event provided a platform for students to explore innovative startup strategies through modern analytical tools and AI-based solutions.

The session began with a brief introduction about the significance of innovation and AI in entrepreneurial success. Participants learned how to apply SWOT analysis effectively to assess their startup potential and how to integrate AI tools to gain market insights, optimize business operations, and make data-driven decisions.

Key Highlights

- Discussion on real-world startup challenges and strategic planning.
 - Demonstration of AI tools that can assist in idea validation and market analysis.
 - Guidance on identifying strengths and opportunities for sustainable startup growth.
 - Interactive Q&A session where students discussed their startup ideas and received expert feedback.
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Resource Persons

- **Convenor:** Asst. Prof. Kamini
- **HOD:** Dr. Ajay Dutta
- **Principal:** Dr. Amandeep Heera

Outcome of the Event

The participants gained practical insights into how AI and SWOT analysis can collectively contribute to startup success. The event inspired several students to refine their business ideas and explore entrepreneurship as a viable career path. It also encouraged participants to adopt analytical and technology-based approaches in their future ventures.

Conclusion

The event was a great success, fostering innovation and strategic thinking among the students of the Department of Computer Science. The collaboration between the Institution's Innovation Council and the department successfully fulfilled its objective of promoting entrepreneurial learning through modern tools and frameworks.

Computer Science Students Shines at GIGAGRID 2025-2026!

Congratulations Message from the Principal

The Department of Computer Science and Applications of B.A.M. Khalsa College, Garhshankar participated in GIGAGRID 2025-2026, held at S.G.G.S. Khalsa College, Mahilpur on 26th September 2025.

Our students showcased their talent and creativity by participating in various technical and creative events and brought laurels to the college.

Winners:

- **Harpreet Kaur (B.C.A. 5th Sem) – 2nd Position in IT IN COLORS**
- **Sania (B.C.A. 1st Sem) – 2nd Position in LOGOLI**
- **Princepreet Kaur (B.C.A. 3rd Sem) – 2nd Position in TECH TALK**
- **Anshita (B.C.A. 3rd Sem) – 2nd Position in TECH TALK**
- **Vishal (B.C.A. 3rd Sem) – Participated in LOGO DESIGNING**
- **Dishant Kumar, Paras, Rehan Rana (B.C.A. 3rd Sem) and Harpreet Kaur (B.C.A. 5th Sem) – Participated in IT RIPPLETS**

The students participated enthusiastically under the supervision of **Assistant Professor Kamini** and **Assistant Professor Narinder Jit Kaur**.

Principal Dr. Amandeep Heera congratulated all the participants and winners for their remarkable performance and appreciated the faculty members for their guidance and motivation. He encouraged the students to continue participating in such events to enhance their technical and creative skills.









Fun & Strategy: Indoor Games Competition by Computer Science Department

Date: 13th September 2025

The Department of Computer Science of B.A.M. Khalsa College, Garhshankar, successfully organized an **Indoor Games Competition** on **13th September 2025**. The event featured three popular games – **Chess, Ludo, and Carrom Board** – which drew enthusiastic participation from students across different

classes.

The primary objective of the competition was to promote **strategic thinking, patience, teamwork, and healthy recreation** among students. Each game witnessed lively participation and a spirit of friendly competition. Students showcased their logical skills in Chess, teamwork and chance-based strategies in Ludo, and focus with precision in Carrom.

The event was conducted under the guidance of the faculty members of the Computer Science Department. The winners were appreciated for their performances, while all participants were encouraged for their active involvement.

The Indoor Games Competition not only provided a platform for students to display their talent but also strengthened the bond of camaraderie and sportsmanship within the department.

Position	Ludo	Chess	Carrom
1st	Sonia (2nd Year)	Gursharan (3rd Year)	Harsh & Ajay (1st Year)
2nd	Sania (1st Year)	Rehan Rana (2nd Year)	Sanjana & Deepanshu (3rd year)







Report on Induction Program

Organized by: Department of Commerce & Department of Computer Science,

In Collaboration with: Institutional Innovation Cell (IIC) & Business Students Association (BSA),

Venue: Commerce Department Seminar Hall,

Date: 20 August 2025

Introduction

The Department of Commerce and the Department of Computer Science, in collaboration with the Institutional Innovation Cell (IIC) and the Business Students Association (BSA), organized an **Induction Program** for the first-year students of **B.Com., B.C.A., and M.Com.** on **20 August 2025** at Babbar Akali Memorial Khalsa College, Garhshankar.

The purpose of the induction program was to welcome the new students, familiarize them with the institutional environment, and provide insights into academic, cultural, and entrepreneurial opportunities available at the college.

Program Highlights

1. Welcome Address:

The event commenced with a warm welcome to the freshers, where the faculty members introduced the vision, mission, and values of the institution.

2. Introduction to IIC and BSA:

- Faculty coordinators briefed the students about the Institutional Innovation Cell (IIC) and its role in promoting entrepreneurship and innovation.
- The Business Students Association (BSA) was introduced as a platform to enhance business acumen, leadership, and collaborative learning.

3. Departmental Orientation:

- Faculty members from both the Commerce and Computer Science departments highlighted the curriculum structure, extracurricular activities,

and career opportunities.

- Students were encouraged to actively participate in departmental clubs and societies.

4. Inspirational Guidance:

- **Prof. Kanwar Kulwant Singh** addressed the gathering and inspired the students to work with dedication, discipline, and innovation. He emphasized the importance of holistic development and urged students to make the best use of resources provided by the college.
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Outcomes of the Program

- Students gained awareness about institutional facilities, departmental activities, and support systems.
 - The program helped freshers transition smoothly into their new academic journey.
 - Students were motivated to engage in innovation, entrepreneurship, and co-curricular activities.
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Conclusion

The **Induction Program** for the first-year students of **B.Com., B.C.A., and M.Com.** proved to be a successful and enriching initiative. It provided the newcomers with a clear understanding of the college environment and instilled a sense

of belonging. With the active support of IIC, BSA, and both departments, the event laid a strong foundation for the students' academic and professional growth.



**Babbar Akali Memorial Khalsa
College Garhshankar**

INDUCTION PROGRAM

for the first year students of

B.Com., B.C.A. & M.Com.

Dated: 20 August 2025

**Under the aegis of Institutional
Innovation Cell (IIC) &
Business Students Association (BSA)**

**Department of Commerce and
The Department of Computer Science**

**Dr. Amandeep Heera
Principal**

World Entrepreneurs' Day Celebration

Report on World Entrepreneurs' Day Celebration

Organized by: Department of Computer Science and Applications,

In Collaboration with: Institution's Innovation Council (IIC),
Venue: ICT ROOM, B.A.M. Khalsa College, Garhshankar Date:
21/8/2025

Introduction

The Department of Computer Science and Applications, in collaboration with the Institution's Innovation Council (IIC), celebrated World Entrepreneurs' Day with great enthusiasm and zeal. The event aimed to encourage students to embrace entrepreneurial thinking, foster innovation, and develop leadership qualities essential for the startup ecosystem.

World Entrepreneurs' Day is dedicated to recognizing and appreciating entrepreneurs, innovators, and startup founders who contribute to the growth of the economy and inspire future generations to pursue innovation-driven ventures.

Objectives of the Event

- To create awareness among students about the importance of entrepreneurship.
- To highlight the role of innovation in solving real-world problems.
- To motivate students to develop business ideas and explore startup opportunities.
- To provide a platform for interaction with resource persons, mentors, and peers.

Event Highlights

1.

Inaugural Session:

oThe event commenced with a welcome address by Prof. Navjot Kaur, highlighting the importance of entrepreneurial spirit in today's digital age.

2.Guest Lecture / Expert Talk:

o A keynote session was delivered by Prof. Jagjivan Kaur on the theme "Innovation and Entrepreneurship in the Digital Era".

o The speaker shared inspiring insights on startup journeys, challenges, and success strategies.

3.Student Activities:

o Idea Pitching Competition: Students presented innovative startup ideas addressing social, technological, and economic challenges.

o Interactive Q&A Session: Students actively participated by asking questions related to entrepreneurship, funding, and innovation strategies.

4. Closing Remarks:

o The event concluded with a vote of thanks by Dr. Ajay Dutta appreciating the efforts of the organizing team, resource persons, and student participants.

Outcomes of the Celebration

- Students gained valuable knowledge about entrepreneurship and innovation.
- Participants were motivated to work on their own business ideas and startup projects.
- Strengthened the collaboration between the Computer Science Department and IIC for future entrepreneurial initiatives.

Conclusion

The celebration of World Entrepreneurs' Day served as an inspiring and engaging platform for the students of the Department of Computer Science and Applications. With the support of IIC, the event not only raised awareness but also nurtured the spirit of entrepreneurship among students. It was a successful initiative towards fostering innovation and building a culture of startups in the institution.



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