



# Biju Patnaik University of Technology, Odisha

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**One-Week Online Faculty Development Programme  
(FDP) on Innovative Teaching Methodologies and  
e-Content Design (ITMED)  
5th to 9th May 2025**

*In association with Association of Indian Universities –  
Academic and Administrative Development Centre (AIU-AADC-BPUT)*



**One-Week Online Faculty Development  
Programme**

**on**

**Innovative Teaching Methodologies and e-  
Content Design (ITMED)**

**Organised by**

**Biju Patnaik University of Technology, Odisha**

**In Association with**

**Association of Indian Universities- Academic and  
Administrative Development Centre (AIU-AADC-BPUT)**

**5<sup>th</sup> – 9<sup>th</sup> May 2025**

**Coordinators**

**Dr. D Chandrasekhar Rao,**

*Associate Prof. Dept. of CSE, CUPGS, BPUT, Odisha*

**Dr. Debashreet Das,**

*Associate Prof. Dept. of CSE, CUPGS, BPUT, Odisha*

## From Chief Guest's Desk



**Prof. Amiya Kumar Rath**  
Vice Chancellor,  
Biju Patnaik University of Technology, Odisha

### MESSAGE

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The pursuit of excellence in teaching demands both innovation and adaptability. In today's academic environment, educators are called not just to deliver content but to design experiences that inspire, engage, and empower learners. This Faculty Development Programme on Innovative Teaching Methodologies and e-Content Design represents a forward-thinking step in that direction.

The integration of pedagogical innovation with digital competence is now central to ensuring that education remains meaningful and relevant. Faculty members must evolve as reflective practitioners, constantly upgrading their methods to meet the diverse needs of learners in both physical and digital spaces.

This initiative exemplifies the spirit of academic progress. It brings together passionate educators and thought leaders to foster knowledge sharing and collaborative growth. I am confident that the learning and exchange that occurred through this platform will resonate far beyond the sessions.

My sincere appreciation goes out to the organizing institution for prioritizing such impactful professional development. I extend my best wishes to all the participants for applying the insights gained to cultivate more engaging and transformative learning environments. Let this be a catalyst for continuous innovation and excellence in education.



**Chief Guest**  
**FDP on ITMED**

### From Guest of Honor's Desk



**Dr. Pankaj Mittal,**  
Secretary General,  
Association of Indian Universities

### MESSAGE

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In an age of rapid educational transformation, the role of the teacher has evolved from being a source of knowledge to becoming a facilitator, mentor, and innovator. The Faculty Development Programme on Innovative Teaching Methodologies and e-Content Design demonstrates a deep understanding of this shift and takes a strategic approach toward building faculty capacity.

It is heartening to see a well-curated program that emphasizes practical strategies for active learning, outcome-oriented curriculum design, digital content creation, and data-informed assessment. These are not just current trends but essential tools for educators navigating increasingly dynamic classrooms and virtual spaces.

This academic initiative reflects a strong commitment to excellence in teaching and learning. Equipping faculty with such contemporary skills not only enriches the immediate academic environment but also contributes to a broader culture of innovation within the higher education ecosystem.

I commend the organizers, experts, and participants for their active involvement in this endeavor. The insights shared and the experiences exchanged during this program are sure to influence positive change in teaching practices. I am optimistic that such initiatives will continue to shape a more adaptive, inclusive, and learner-centered future for our institutions.

A handwritten signature in blue ink, appearing to read 'Pankaj Mittal'.

**Guest of Honor  
FDP on ITMED**

### From Guest of Honor's Desk



**Mrs. Ranjana Parihar,**  
Joint Secretary,  
Association of Indian Universities

### MESSAGE

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Academic innovation begins with empowered educators. As the demands of learners change and digital transformation accelerates, it becomes imperative that our teaching community is prepared not only to respond—but to lead. This Faculty Development Programme on Innovative Teaching Methodologies and e-Content Design serves as a timely and impactful step in that direction.

The diversity of themes covered—from curriculum design to blended learning, from microlearning to data-driven feedback—demonstrates an admirable understanding of current educational needs. These are not just enhancements to the teaching toolkit; they are core elements of a future-ready pedagogical framework.

Such programs play a vital role in equipping faculty to think critically about their practices, adapt to new challenges, and embrace technology as an enabler of deeper learning. They also foster a spirit of collaboration and reflection, which are essential for sustained professional growth.

I extend my appreciation to the organizing team for their thoughtful planning and execution. Most importantly, I recognize the commitment of the participants who have invested time and effort in their own development. May the outcomes of this FDP ripple outward, enriching classrooms, shaping institutions, and ultimately benefitting students across the country.

A handwritten signature in black ink, appearing to read 'R. Parihar', written over a horizontal line.

**Guest of Honor  
FDP on ITMED**

**From Director Curriculum Development's Desk**



**Prof. Sujit Kumar Khuntia,**  
Director Curriculum Development,  
Biju Patnaik University of Technology, Odisha

**MESSAGE**

At the heart of quality education lies a dynamic and responsive curriculum, one that evolves through continuous refinement and innovation in pedagogy. The Faculty Development Programme on Innovative Teaching Methodologies and e-Content Design aligns perfectly with this vision by focusing on how curriculum delivery can be transformed through thoughtful teaching strategies and digital innovation.

As we move toward outcome-based education, it becomes crucial to bridge the gap between what we teach and how we teach. This FDP has successfully addressed that intersection by providing faculty with conceptual clarity, practical tools, and inspiring case studies. It has further encouraged introspection among educators about aligning curriculum goals with learner engagement and industry relevance.

The sessions conducted during the program have not only introduced best practices but have empowered faculty to critically examine their teaching frameworks. This is essential in building a robust academic culture that thrives on adaptability, inclusivity, and excellence.

I congratulate all stakeholders involved in the organization and execution of this program. It is my firm belief that the knowledge gained through this initiative will positively influence curriculum delivery across departments and institutions. I look forward to witnessing the sustained impact of this collective learning journey.

*S Khuntia*

**Director Curriculum Development  
BPUT, Odisha**

**From Director I/C CUPGS's Desk**



**Prof. Sivkumar Mishra,**  
Director I/C CUPGS  
Biju Patnaik University of Technology, Odisha

**MESSAGE**

Education is evolving at an unprecedented pace, and so must educators. This Faculty Development Programme on Innovative Teaching Methodologies and e-Content Design captures the spirit of reinvention essential for impactful teaching in today's world.

Learners now thrive in environments that are interactive, inclusive, and digitally enriched. By adopting innovative pedagogies and creating engaging e-content, educators can spark curiosity, nurture critical thinking, and prepare students to meet the challenges of the 21st century.

The tools and approaches shared in this program empower you to break free from traditional routines and design experiences that resonate with modern learners. Whether through flipped classrooms, gamified content, or creative use of multimedia, you have the opportunity to redefine how knowledge is delivered and absorbed.

I encourage each of you to experiment boldly, adapt dynamically, and continue learning yourselves as you inspire others to learn. Remember, great teaching is about more than just conveying facts — it's about igniting minds and opening doors to limitless possibilities.

May you continue to innovate, inspire, and transform classrooms into vibrant spaces of discovery and growth.

A handwritten signature in black ink that reads "Sivkumar Mishra".

**Director I/C CUPGS  
BPUT, Odisha**

## From Coordinators' Desk



**Dr. Chandrasekhar Rao**  
Associate Professor,  
Dept. of Computer Science and Engineering,  
CUPGS, BPUT, Odisha

### MESSAGE

This Faculty Development Programme on Innovative Teaching Methodologies and e-Content Design has been an endeavor shaped by purpose, passion, and partnership. As the coordinator, I have witnessed a remarkable confluence of academic insight, professional energy, and collaborative spirit throughout this week-long journey.

The objective was clear: to provide faculty with contemporary tools and strategies that support effective, learner-centric teaching in an increasingly digital world. What unfolded went beyond expectations. Every session—carefully curated and expertly delivered—contributed to broadening our understanding of how innovation can be practically integrated into the classroom and curriculum.

The engagement of the participants, the depth of interaction with the resource persons, and the spirit of inquiry and experimentation made this FDP a truly enriching experience. It has reaffirmed our belief in the transformative power of faculty development as a catalyst for educational excellence.

I extend heartfelt gratitude to every contributor—speakers, participants, organizers, and support teams. May the seeds of knowledge planted here continue to grow into meaningful changes in teaching practice, and may we remain committed to lifelong learning as educators and mentors.

*D. Chandrasekhar Rao.*  
Coordinator ITMED-cum- Secretary AADC,  
BPUT

### From Coordinators' Desk



**Dr. Debashreet Das**  
Associate Professor,  
Dept. of Computer Science and Engineering,  
CUPGS, BPUT, Odisha

### MESSAGE

Organizing this Faculty Development Programme on Innovative Teaching Methodologies and e-Content Design has been both a challenge and a privilege. It offered a unique opportunity to work closely with experts, facilitators, and faculty members from diverse backgrounds—all united by a common goal: improving the quality of education through innovative and effective teaching.

The structure of the program was designed not just to inform but to transform. Each session opened new perspectives on how we, as educators, can better engage with our students, design meaningful learning experiences, and integrate technology not as a substitute, but as an enabler of deep learning.

The active participation, critical discussions, and mutual support among all attendees truly made this program a success. Beyond technical knowledge, this FDP has fostered a sense of academic community—a network of educators committed to change and continuous improvement.

I express my deepest thanks to every individual and team involved in making this event a reality. I am hopeful that the knowledge, skills, and ideas shared here will influence not only individual classrooms but institutional teaching cultures for years to come.

*Debashreet Das*  
**Coordinator**  
**FDP on ITMED**

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## **OBJECTIVE**

The primary objective of conducting a Faculty Development Program (FDP) on Innovative Teaching Methodologies and e-content design are:

- To familiarize faculty with innovative, learner-centric teaching methodologies.
- To equip participants with digital tools and techniques for creating engaging and interactive e-content.
- To develop skills in curriculum design aligned with outcomes and employability.
- To explore modern assessment strategies that enhance student understanding and feedback.
- To encourage the adoption and implementation of emerging trends and technologies in education.

## EXPERT MEMBERS

| <b>Sl. No.</b> | <b>Name</b>                | <b>Affiliation</b>  |
|----------------|----------------------------|---|
| 1              | Prof. Vishal Sood          | Professor, School of Education, Central University of Himachal Pradesh, Dharamshala   |
| 2              | Dr. Budh Singh             | Associate Professor, Department of Education, Guru Ghasidas Vishwavidyalaya (GGV), Bilaspur                                     |
| 3              | Dr. Nilesh Sable           | Head & Associate Professor, Vishwakarma Institute of Information Technology, Pune   |
| 4              | Prof. Neeraj Kumar Rathore | Professor, Department of Computer Science & Engineering, Indira Gandhi National Tribal University, Amarkantak                   |
| 5              | Prof. Srinivasa K G        | Professor-cum-Dean (Academics), Indian Institute of Information Technology (IIIT), Naya Raipur                                  |
| 6              | Prof. Susanta Kumar Naskar | Professor, Education & Management, National Institute of Technical Teachers Training and Research (NITTTR), Kolkata             |
| 7              | Dr. Dipti Verma            | Associate Professor, Department of Computer Science and Engineering, Chhattisgarh Swami Vivekanand Technical University, Bhilai |
| 8              | Dr. J. P. Patra            | Associate Professor, Department of Computer Science and Engineering, Chhattisgarh Swami Vivekanand Technical University, Bhilai |

## SCHEDULE

### Day 1: Foundations of Innovative Teaching Methodologies (5th May 2025)

| Time                | Session Title                                 | Speaker/Facilitator                  |
|---------------------|---|--------------------------------------|
| 09:00 AM – 09:30 AM | Inauguration & Opening Remarks                | Guest / Organizer                    |
| 09:30 AM – 11:30 AM | Overview of Innovative Teaching Methodologies | Prof. Vishal Sood, CUHP, Dharamshala |
| 11:30 AM – 11:45 AM | <b>Break</b>                                  | —                                    |
| 11:45 AM – 01:45 PM | Active Learning Strategies                    | Dr. Budh Singh, GGV, Bilaspur        |
| 01:45 PM – 03:00 PM | <b>Lunch Break</b>                            | —                                    |
| 03:00 PM – 05:00 PM | Designing Engaging Learning Experiences       | Dr. Budh Singh, GGV, Bilaspur        |

### Day 2: Technology Integration in Teaching (6th May 2025)

| Time                | Session Title                           | Speaker/Facilitator                         |
|---------------------|---|---|
| 09:00 AM – 11:00 AM | Digital Tools for Teaching and Learning | Dr. Nilesh Sable, VIIT, Pune                |
| 11:00 AM – 11:30 AM | <b>Break</b>                            | —   |
| 11:30 AM – 01:30 PM | Creating Interactive e-Content          | Dr. Neeraj Kumar Rathore, IGNTU, Amarkantak |
| 01:30 PM – 03:00 PM | <b>Lunch Break</b>                      | —   |
| 03:00 PM – 05:00 PM | Blended and Hybrid Learning Models      | Prof. Srinivasa K G, IIIT, Naya Raipur      |

### Day 3: Curriculum Design for Modern Education (7th May 2025)

| Time                | Session Title                           | Speaker/Facilitator                       |
|---------------------|---|---|
| 09:00 AM – 11:00 AM | Principles of Curriculum Design         | Dr. Susanta Kumar Naskar, NITTTR, Kolkata |
| 11:00 AM – 11:30 AM | <b>Break</b>                            | —   |
| 11:30 AM – 01:30 PM | Competency-Based Curriculum Development | Dr. Dipti Verma, CSVTU, Bilai             |
| 01:30 PM – 03:00 PM | <b>Lunch Break</b>                      | —   |

| <b>Time</b>         | <b>Session Title</b>                    | <b>Speaker/Facilitator</b>             |
|---------------------|---|--|
| 03:00 PM – 05:00 PM | Microlearning and Modular Course Design | Prof. Srinivasa K G, IIIT, Naya Raipur |

#### **Day 4: Assessment Techniques for Effective Learning (8th May 2025)**

| <b>Time</b>         | <b>Session Title</b>                | <b>Speaker/Facilitator</b>           |
|---------------------|-------------------------------------|--------------------------------------|
| 09:00 AM – 11:00 AM | Formative and Summative Assessments | Dr. J. P. Patra, CSVTU, Bhilai       |
| 11:00 AM – 11:30 AM | <b>Break</b>                        | —                                    |
| 11:30 AM – 01:30 PM | Alternative Assessment Methods      | Prof. Vishal Sood, CUHP, Dharamshala |
| 01:30 PM – 03:00 PM | <b>Lunch Break</b>                  | —                                    |
| 03:00 PM – 05:00 PM | Data-Driven Assessment and Feedback | Dr. J. P. Patra, CSVTU, Bhilai       |

#### **Day 5: Implementation and Future Trends (9th May 2025)**

| <b>Time</b>         | <b>Session Title</b>                       | <b>Speaker/Facilitator</b>             |
|---------------------|--|--|
| 09:00 AM – 11:00 AM | Implementing Innovative Teaching Practices | Prof. Srinivasa K G, IIIT, Naya Raipur |
| 11:00 AM – 11:30 AM | <b>Break</b>                               | —                                      |
| 11:30 AM – 01:30 PM | Emerging Trends in Education               | Dr. Nilesh Sable, VIIT, Pune           |
| 01:30 PM – 03:00 PM | <b>Lunch Break</b>                         | —                                      |
| 03:00 PM – 05:00 PM | Action Planning and Wrap-Up                | Participants / Organizer               |

## INAUGURAL SESSION

### AGENDA

| Time           | Event                     | Speaker/Facilitator   |
|----------------|---------------------------|---|
| 9:15 AM        | Start of the Inauguration | Introduction of Guests by Dr. Subhendu Kumar Rath, Deputy Registrar, BPUT, Odisha |
| 9:17 – 9:20 AM | BPUT Anthem               | --  |
| 9:20 – 9:23 AM | Welcome Address           | Dr. D. C. Rao, Secretary, AIU-AADC-BPUT   |
| 9:23 – 9:26 AM | Address By                | Prof. Sujit Kumar Khuntia, Director, Curriculum Development, BPUT, Odisha         |
| 9:26 – 9:31 AM | Address by Guest of Honor | Mrs. Ranjana Parihar, Joint Secretary, Association of Indian Universities         |
| 9:31 – 9:36 AM | Address by Chief Guest    | Prof. Amiya Kumar Rath, Vice Chancellor, BPUT, Odisha                             |
| 9:36 – 9:40 AM | Vote of Thanks            | Dr. Debashreeet Das, Associate professor, Department of CSE, CUPGS, BPUT, Odisha  |

### MINUTES OF THE INAUGURAL SESSION

The inaugural session of the *One-Week Online Faculty Development Programme (FDP) on Innovative Teaching Methodologies*, organized by BPUT Odisha in association with AIU-AADC-BPUT, was held on **5<sup>th</sup> May 2025**.

#### Proceedings:

**1. Start of the Inauguration (9:15 AM):**

The session commenced with the formal **introduction of guests** by **Dr. Subhendu Kumar Rath**, Deputy Registrar, BPUT, Odisha. He welcomed all dignitaries, resource persons, and participants, and briefly outlined the objectives of the FDP focusing on the adoption of learner-centric pedagogies and digital content innovation.

**2. BPUT Anthem (9:17 AM – 9:20 AM):**

The gathering observed the BPUT anthem, marking a ceremonial beginning to the event.

**3. Welcome Address (9:20 AM – 9:23 AM):**

**Dr. D. C. Rao**, Secretary, AIU-AADC-BPUT, delivered the welcome address, highlighting the need for academic and administrative synergy to foster innovation in higher education.

**4. Address by Prof. Sujit Kumar Khuntia (9:23 AM – 9:26 AM):**

**Prof. Sujit Kumar Khuntia**, Director of Curriculum Development, BPUT, emphasized curriculum reforms and the need for aligning pedagogy with industry-ready skills. He appreciated the FDP theme as timely and relevant.

**5. Guest of Honor Address (9:26 AM – 9:31 AM):**

**Mrs. Ranjana Parihar**, Joint Secretary, Association of Indian Universities, addressed the participants, stressing the integration of digital tools and teaching innovations in academic delivery. She urged faculty members to leverage platforms like this FDP to upgrade their teaching practices.

**6. Chief Guest Address (9:31 AM – 9:36 AM):**

**Prof. Amiya Kumar Rath**, Vice Chancellor, BPUT, Odisha, as Chief Guest, emphasized the strategic importance of innovation in teaching-learning. He pointed out the need to build resilience, inclusivity, and adaptability in the higher education ecosystem through initiatives such as this FDP.

**7. Vote of Thanks (9:36 AM – 9:40 AM):**

The session concluded with a **vote of thanks** by **Dr. Debashreet Das**, Associate Professor, Department of CSE, CUPGS, BPUT, Odisha. She expressed gratitude to all guests, organizers, and participants for making the inauguration meaningful and inspiring.

The inaugural session successfully set the tone for the week-long FDP, underlining the significance of innovative methodologies and e-content in transforming higher education. The session was attended by faculty members from various institutions and concluded with positive energy and forward-looking momentum.

## MINUTES OF THE SESSION

### SESSION: 1

**Topic:** Overview of Innovative Teaching Methodologies

**Speaker/Expert:** Prof. Vishal Sood, School of Education, Central University of Himachal Pradesh, Dharamshala

#### Minutes of the Session:

- The session commenced with a warm welcome and a formal introduction of the expert by the session moderator.
  - The expert began by outlining the pressing need for innovation in contemporary teaching practices.
  - Key educational shifts were discussed, including the movement from teacher-centered to learner-centric pedagogies.
  - The speaker emphasized the growing importance of flexibility, inclusivity, and active participation in instructional design.
  - Global and national trends influencing higher education reforms were highlighted.
  - Theoretical foundations such as constructivism and experiential learning were revisited to set the context for pedagogical transformation.
  - The role of technology in enabling adaptive, engaging, and personalized learning experiences was examined.
  - Case examples of innovative classroom practices and successful institutional initiatives were shared.
  - The significance of aligning teaching methods with graduate attributes and learning outcomes was emphasized.
  - Participants reflected on their current teaching approaches and identified potential areas for pedagogical enhancement.
  - The session encouraged critical thinking about the future of teaching and the role of educators as change agents.
  - A brief Q&A segment allowed participants to seek clarification and share classroom experiences.
  - The session concluded with a formal vote of thanks by the moderator, appreciating the expert's insightful and impactful delivery.
-

## SESSION: 2

**Topic:** Active Learning Strategies

**Speaker/Expert:** Dr. Budh Singh, Department of Education, GGV Bilaspur

### Minutes of the Session:

- The session started with the introduction of the expert by the session moderator.
  - Dr. Singh introduced the philosophy and framework of active learning, highlighting its relevance in modern education.
  - He emphasized a shift from passive lectures to participatory learning environments.
  - Techniques such as Think-Pair-Share, Peer Instruction, and Flipped Classroom were discussed in depth.
  - The session underscored how these strategies foster deeper understanding and student motivation.
  - Case studies and examples from actual classroom practices were shared.
  - Participants explored ways to integrate active learning in different subject contexts.
  - Barriers to adoption, such as time constraints and student resistance, were acknowledged with possible solutions.
  - The alignment of active learning strategies with Bloom's taxonomy was demonstrated.
  - A practical segment was conducted where participants designed short activities.
  - A Q&A session allowed for clarification and pedagogical reflection.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights.
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## SESSION: 3

**Topic:** Designing Engaging Learning Experiences

**Speaker/Expert:** Dr. Budh Singh, Department of Education, GGV Bilaspur

### Minutes of the Session:

- The session started with the introduction of the expert by the session moderator.
  - Dr. Singh initiated the talk by stressing the importance of student engagement in knowledge construction.
  - Key elements of engagement such as relevance, challenge, and autonomy were explained.
  - Techniques like storytelling, real-world application, and gamification were elaborated upon.
  - The psychology behind engagement and its connection to learner motivation was discussed.
  - Examples of interactive digital tools used for immersive learning were showcased.
  - The session included a breakdown of how to structure a lesson plan around engagement principles.
  - Participants collaborated in designing a mini-lesson focused on experiential engagement.
  - Challenges in maintaining engagement in hybrid environments were addressed.
  - The role of the instructor as a facilitator in engaged learning was emphasized.
  - Feedback from participants was invited to enhance future design strategies.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights.
-

## **SESSION: 4**

**Topic:** Digital Tools for Teaching and Learning

**Speaker/Expert:** Dr. Nilesh Sable, Vishwakarma Institute of Information Technology, Pune

### **Minutes of the Session:**

- The session started with the introduction of the expert by the session moderator.
  - Dr. Sable highlighted the evolution of digital teaching tools in the post-COVID academic era.
  - A categorized overview of tools for content delivery, collaboration, and assessment was provided.
  - Platforms like Google Classroom, Moodle, Zoom, MS Teams, and Padlet were demonstrated.
  - Criteria for selecting appropriate tools based on pedagogical goals were discussed.
  - Practical demonstrations included quizzes, breakout rooms, polls, and annotation features.
  - Issues of accessibility, digital literacy, and data privacy were highlighted.
  - Participants reflected on their institutional infrastructure and tool availability.
  - Strategies to blend synchronous and asynchronous teaching using digital platforms were shared.
  - Scalability and sustainability of technology use in teaching were examined.
  - Real-time queries were addressed through a live demo.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights.
-

## SESSION: 5

**Topic:** Creating Interactive e-Content

**Speaker/Expert:** Dr. Neeraj Kumar Rathore, IGNTU, Amarkantak

### Minutes of the Session:

- The session started with the introduction of the expert by the session moderator.
  - Dr. Rathore discussed the shift from static content to interactive, multimedia-rich digital learning materials.
  - He demonstrated tools like H5P, Canva, Powtoon, and Articulate.
  - The significance of learner autonomy, pacing, and non-linear navigation in content design was stressed.
  - Types of interactivity—clickable elements, quizzes, branching scenarios—were illustrated.
  - Emphasis was placed on the role of visuals, typography, and layout in digital learning.
  - Tips for creating inclusive content that caters to diverse learning needs were shared.
  - Participants were shown how to convert traditional materials into engaging e-content.
  - File formats, hosting platforms, and content update strategies were covered.
  - Licensing and copyright issues in e-content were briefly discussed.
  - A hands-on task was assigned to create a basic e-module.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights.
-

## **SESSION: 6**

**Topic:** Blended and Hybrid Learning Models

**Speaker/Expert:** Prof. Srinivasa K G, IIIT, Naya Raipur

### **Minutes of the Session:**

- The session started with the introduction of the expert by the session moderator.
  - Prof. Srinivasa introduced key concepts of blended and hybrid learning with practical definitions.
  - Various models like rotation, flex, and enriched virtual models were explained.
  - Advantages such as personalization, flexibility, and resource optimization were discussed.
  - He provided design guidelines for effective blending of offline and online activities.
  - Institutional readiness and faculty preparedness were examined.
  - The need for designing content and assessment suited for each mode was emphasized.
  - Real implementation case studies and outcomes were presented.
  - Technology management, scheduling, and student support were addressed.
  - Participants explored alignment of hybrid design with curriculum goals.
  - Resistance to change among stakeholders and strategies to overcome it were discussed.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights.
-

## **SESSION: 7**

**Topic:** Principles of Curriculum Design

**Speaker/Expert:** Dr. Susanta Kumar Naskar, NITTTR Kolkata

### **Minutes of the Session:**

- The session started with the introduction of the expert by the session moderator.
  - Dr. Naskar opened with the fundamentals of curriculum theory and structure.
  - The Backward Design model (Understanding by Design - UbD) was explained as a goal-oriented framework.
  - He illustrated the mapping of Program Outcomes (POs) and Course Outcomes (COs).
  - Alignment with national regulatory frameworks like AICTE and NAAC was discussed.
  - Real examples of curriculum alignment for technical and non-technical disciplines were shared.
  - Emphasis was laid on learner-centered, flexible, and inclusive curriculum development.
  - Components of curriculum planning like course mapping, delivery sequencing, and learning environment were analyzed.
  - Tools for gap analysis and stakeholder feedback integration were demonstrated.
  - He provided insights on maintaining relevance and employability through periodic revision.
  - Participants engaged in curriculum critique and redesign exercise in breakout groups.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights. He addressed queries related to uploading supplementary files and use of ICT.
-

## **SESSION: 8**

**Topic:** Competency-Based Curriculum Development

**Speaker/Expert:** Dr. Dipti Verma, CSVTU Bhilai

### **Minutes of the Session:**

- The session started with the introduction of the expert by the session moderator.
  - Dr. Verma introduced the framework of Competency-Based Education (CBE).
  - She defined competencies in terms of knowledge, skills, and attitudes.
  - The necessity of outcome-based education (OBE) and how it overlaps with CBE was highlighted.
  - National Education Policy (NEP) alignment with competency-based models was explained.
  - Various levels of Bloom's Taxonomy were revisited from a skill-mapping perspective.
  - Mapping course modules with core employability skills was demonstrated.
  - Use of digital badges and micro-credentials to assess competencies was discussed.
  - Examples of skill-integrated curricula from engineering and management domains were shared.
  - Assessment design for demonstrating competencies in practice was explored.
  - Industry-academia collaboration for competency validation was encouraged.
  - The session concluded with a vote of thanks extended by the moderator to the expert for her outstanding delivery and valuable insights.
-

## **SESSION: 9**

**Topic:** Microlearning and Modular Course Design

**Speaker/Expert:** Prof. Srinivasa K G, IIIT Naya Raipur

### **Minutes of the Session:**

- The session started with the introduction of the expert by the session moderator.
  - Prof. Srinivasa defined microlearning and its growing relevance in digital education.
  - He highlighted characteristics like short duration, targeted focus, and flexible access.
  - Platforms and tools supporting microlearning such as YouTube Shorts, Instagram Reels, and LMS modules were shown.
  - Cognitive load theory and learner engagement principles were related to micro-content design.
  - He demonstrated how to structure modular courses from conventional syllabi.
  - Participants explored chunking content for better retention and recall.
  - Techniques for embedding formative assessments into micro-units were shared.
  - The use of multimedia formats (audio, infographic, GIF, short videos) was encouraged.
  - He discussed accessibility and inclusivity in modular design.
  - Group activity involved designing a micro-module using a template shared during the session.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights.
-

## **SESSION: 10**

**Topic:** Formative and Summative Assessments

**Speaker/Expert:** Dr. J. P. Patra, CSVTU Bhilai

### **Minutes of the Session:**

- The session started with the introduction of the expert by the session moderator.
  - Dr. Patra differentiated between formative (assessment for learning) and summative (assessment of learning).
  - He elaborated on the timing, scope, and impact of both assessment types.
  - Tools like Kahoot, Mentimeter, and Google Forms were demonstrated for formative use.
  - Emphasis was placed on feedback loops and learning analytics.
  - He showed how low-stakes assessments boost motivation and reinforce learning.
  - Best practices for designing quizzes, reflective journals, and minute papers were covered.
  - Rubric creation and alignment with learning outcomes were discussed.
  - Summative methods like end-sem exams, projects, and presentations were contextualized.
  - He suggested using LMS analytics to personalize instruction.
  - Participants reflected on their assessment practices and explored improvement strategies.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights.
-

## SESSION: 11

**Topic:** Alternative Assessment Methods

**Speaker/Expert:** Prof. Vishal Sood, CUHP Dharamshala

### Minutes of the Session:

- The session started with the introduction of the expert by the session moderator.
  - Prof. Sood introduced a spectrum of alternative assessments, emphasizing learner autonomy.
  - Methods like portfolios, peer assessments, self-assessments, and open-book exams were explained.
  - He discussed how alternative assessments align with 21st-century skills.
  - The role of rubrics in ensuring consistency and objectivity was explained.
  - Benefits of peer feedback in collaborative learning contexts were shared.
  - Templates and tools for digital rubrics were demonstrated.
  - The importance of reflective practices in alternative assessment was emphasized.
  - Examples from teacher education and liberal arts disciplines were cited.
  - He discussed academic integrity and authenticity in open-ended tasks.
  - Challenges in standardization and scalability were acknowledged with solutions.
  - The session concluded with a vote of thanks extended by the moderator to the expert for his outstanding delivery and valuable insights.
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## SESSION: 12

**Topic:** Data-Driven Assessment and Feedback

**Speaker/Expert:** Dr. Ramakrishna Malkapuram, Vignan University

### Minutes of the Session:

- The session began with a formal welcome and a brief profile introduction of the speaker by the moderator.
  - Dr. Patra started by defining data-driven assessment as a means to enhance teaching effectiveness and learner outcomes.
  - Various sources of assessment data such as LMS analytics, quizzes, attendance, and student interactions were outlined.
  - He explained how to interpret learner progress and identify learning gaps through data trends.
  - Visualization tools like dashboards, charts, and heatmaps were showcased.
  - The session highlighted how feedback, when data-backed, becomes timely and actionable.
  - Techniques to provide personalized, constructive feedback were discussed.
  - Ethical considerations related to data privacy and consent were emphasized.
  - He also discussed formative analytics vs. summative analytics and their respective uses.
  - Tools such as Google Analytics for Education, Moodle tracking, and Excel dashboards were introduced.
  - Participants examined anonymized data to identify performance patterns.
  - The moderator concluded the session by sincerely thanking the speaker for his impactful insights and practical demonstrations.
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## **SESSION: 13**

**Topic:** Implementing Innovative Teaching Practices

**Speaker/Expert:** Prof. Srinivasa K G, IIIT Naya Raipur

### **Minutes of the Session:**

- The moderator introduced the speaker and set the context for the session by highlighting the importance of innovation in pedagogical practice.
  - Prof. Srinivasa started with the systemic barriers in adopting innovation at institutional levels.
  - Strategies to embed innovation in lesson planning and delivery were shared.
  - He discussed the role of institutional policies, leadership, and resource allocation.
  - Emphasis was placed on small, scalable experiments to build momentum for change.
  - Stakeholder involvement, including students, was suggested as a catalyst for implementation.
  - Examples of successful case studies from IIIT and other higher-ed institutions were shared.
  - The importance of reflective practice and feedback collection was highlighted.
  - He demonstrated an implementation matrix to track pedagogical innovations.
  - The role of communities of practice and peer learning in sustaining innovation was explored.
  - Participants were invited to share their own experiences of pedagogical change.
  - The session wrapped up with words of appreciation and gratitude to the speaker for his enriching and forward-thinking presentation.
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## SESSION: 14

**Topic:** Emerging Trends in Education

**Speaker/Expert:** Dr. Nilesh Sable, VIIT Pune

### Minutes of the Session:

- The expert was cordially introduced by the session coordinator, setting the stage for a futuristic discussion on educational transformation.
  - Dr. Sable opened with an overview of global transformations in higher education.
  - AI-powered tools for personalized learning and predictive analytics were showcased.
  - He discussed how Augmented Reality (AR), Virtual Reality (VR), and simulations enhance experiential learning.
  - Adaptive learning systems that evolve based on student behavior were explained.
  - Trends such as nano-degrees, MOOCs, and stackable credentials were reviewed.
  - The impact of blockchain in academic credential verification was briefly touched upon.
  - Emphasis was placed on balancing automation with human values in education.
  - A discussion followed on the preparedness of Indian HEIs to adopt emerging technologies.
  - He introduced the “Futures Literacy” approach by UNESCO.
  - Practical strategies for integrating these trends into regular academic settings were outlined.
  - The session drew to a close with heartfelt thanks extended to the speaker for his visionary insights and dynamic interaction.
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## VALEDICTORY SESSION

### AGENDA

| Time            | Event                            | Speaker/Facilitator  |
|-----------------|----------------------------------|--|
| 04:00 PM        | Start of the Valedictory         | Introduction of Guests by Mr. Ashish Kumar Mohanty, Research Scholar, BPUT, Odisha |
| 4:02 – 4:05 PM  | BPUT Anthem                      | --   |
| 4:05 – 04:08 PM | Address by Coordinator           | Dr. D. Chandrasekhar Rao, Secretary, AIU-AADC-BPUT                                 |
| 4:08 – 4:11 PM  | Address by Director CD           | Prof. Sujit Kumar Khuntia, Director, Curriculum Development, BPUT, Odisha          |
| 4:11 – 4:16 PM  | Address By Guest of Honor        | Dr. Pankaj Mittal, Secretary General, Association of Indian Universities           |
| 4:16 – 4:20 PM  | Feedback                         | Participants, FDP on ITMED   |
| 4:20 – 4:23 PM  | Address By Guest of Honor        | Mrs. Ranjana Parihar, Joint Secretary, Association of Indian Universities          |
| 4:23 – 4:28 PM  | Address by Chief Guest           | Prof. Amiya Kumar Rath, Vice Chancellor, BPUT, Odisha                              |
| 4:28 – 4:30 PM  | Vote of Thanks by Co-Coordinator | Dr. Debashreet Das, Associate Prof. Dept. of CSE, CUPGS, BPUT, Odisha              |

#### Proceedings of the Session:

- The valedictory session commenced at 4:00 PM with the **formal introduction of the dignitaries** by **Mr. Ashish Kumar Mohanty**, Research Scholar, BPUT, Odisha.
- This was followed by the **BPUT Anthem**, observed respectfully by all attendees.
- **Dr. D. Chandrasekhar Rao**, Secretary, AIU-AADC-BPUT, delivered the **Coordinator's Address** where he highlighted the academic relevance and successful execution of the one-week FDP. He commended the efforts of the organizing team and participants for their dedication throughout the event.
- **Prof. Sujit Kumar Khuntia**, Director of Curriculum Development, BPUT, shared his reflections, emphasizing the program's alignment with ongoing academic reforms and

curriculum transformation. He encouraged faculty to implement the methodologies explored during the FDP into their teaching practices.

- **Dr. Pankaj Mittal**, Secretary General, Association of Indian Universities, delivered a special address appreciating the FDP's forward-looking theme. She stressed the need for continuous professional development in light of emerging technologies and evolving learner profiles.
- A brief **feedback session** followed, where select **participants** shared their learning experiences, key takeaways, and appreciation for the engaging sessions and interactive delivery.
- **Mrs. Ranjana Parihar**, Joint Secretary, Association of Indian Universities, offered insightful remarks on faculty empowerment and the institutional responsibility to foster pedagogical innovation.
- **Prof. Amiya Kumar Rath**, Vice Chancellor, BPUT, Odisha, addressed the gathering and applauded the academic vigor and collaborative spirit demonstrated throughout the week. He urged participants to act as change-makers within their respective institutions.
- The session concluded with a heartfelt **vote of thanks** proposed by **Dr. Debashreet Das**, Associate Professor, Department of CSE, CUPGS, BPUT, Odisha. She expressed gratitude to all dignitaries, resource persons, coordinators, technical support teams, and participants for their contribution to the success of the program.

The session marked a meaningful end to an impactful academic journey, leaving participants motivated and equipped to innovate in their teaching endeavours.

## SUMMARY

The Faculty Development Programme (FDP) on Innovative Teaching Methodologies and e-Content Design, organized by Biju Patnaik University of Technology (BPUT), Odisha in collaboration with the Association of Indian Universities – Academic and Administrative Development Centre (AIU-AADC-BPUT), was successfully held from 5th to 9th May 2025. The five-day event aimed to build academic capacity among faculty by introducing modern, learner-centric teaching strategies and practical e-content creation tools aligned with national education priorities. This program brought together 15 expert sessions, delivered by academicians from nationally reputed institutions including IIIT Naya Raipur, NITTTR Kolkata and Chennai, CUHP Dharamshala, IGNTU Amarkantak, CSVTU Bhilai, GGV Bilaspur, NIT Rourkela, and VIIT Pune, among others. The FDP witnessed participation from faculty across disciplines, and included over 30 hours of interactive learning, hands-on demonstrations, and reflective discussions.

Each session was curated to ensure a balance between conceptual frameworks and practical applications. Participants engaged in hands-on activities such as designing microlearning modules, mapping course outcomes, and experimenting with e-content tools like H5P and Canva. The FDP also emphasized alignment with national standards such as NEP 2020, NAAC, NBA, and NIRF.

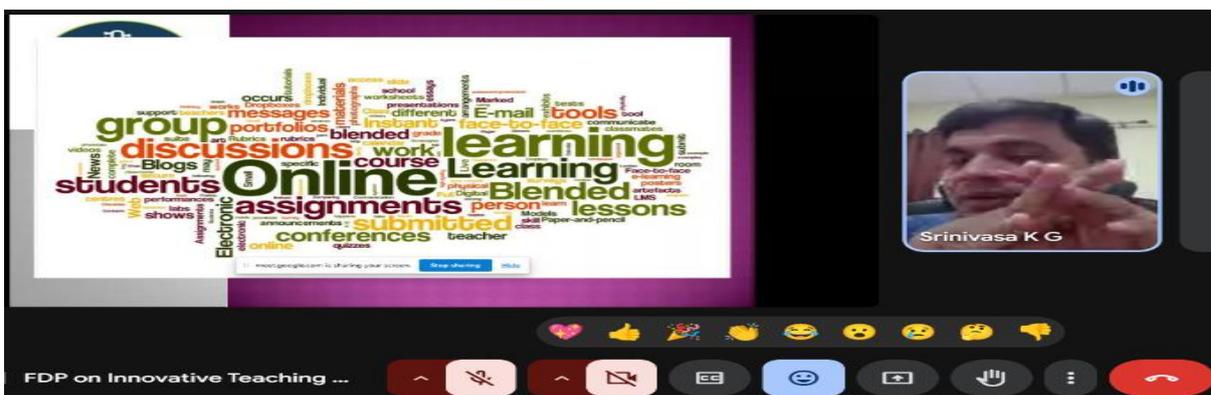
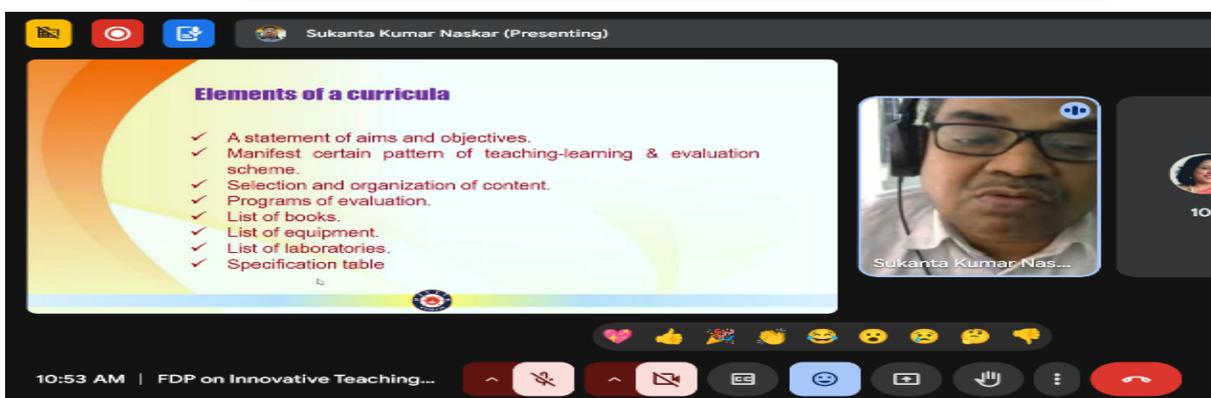
The inaugural and valedictory sessions were marked by thoughtful addresses from senior academic leaders and policymakers, reinforcing the vision of transforming higher education through innovation and digital empowerment. A structured feedback session allowed participants to share reflections on the learning experience, and suggestions for future programs.

This FDP has served as a critical platform for enhancing teaching effectiveness and promoting academic innovation. The cross-institutional knowledge exchange and collaboration during the program have contributed to developing a network of educators equipped to lead pedagogical change in their respective domains.

With structured content, national-level resource persons, and a forward-looking agenda, this FDP stands as a benchmark for professional development in higher education. It not only enabled participants to upgrade their pedagogical toolkit but also encouraged them to become catalysts for institutional transformation.

The organizing team expresses sincere appreciation to all contributors, participants, and support staff whose efforts made this FDP a resounding success.

## PICTURE GALLERY



# ABOUT US

The Biju Patnaik University of Technology (BPUT), located in Rourkela, Odisha, was established in November 2002 by an Act of the Government of Odisha. Its primary objective is to ensure high-quality technical education across the state through a common curriculum and uniform evaluation standards.

The foundation stone for BPUT was laid in 2003 by Dr. A.P.J. Abdul Kalam, then Hon'ble President of India. Since then, the university has expanded significantly, now including 137 affiliated and constituent colleges and serving a student population exceeding 100,000. BPUT offers a wide range of undergraduate and postgraduate programs in fields such as Engineering, Architecture, Business Management, and Computer Applications. It is also a leading institution for Ph.D. programs across various disciplines.

BPUT boasts a vast alumni network, with over 100,000 graduates contributing globally to industries, academia, and research. The university actively fosters innovation and collaboration through events like the BPUT Research Conclave, BPUT Hackathon, BPUT Tech Carnival, and BPUT Industry-Academia Conclave. Annually, BPUT also hosts several Faculty Development Programs (FDPs) to enhance educators' skills and knowledge.

BPUT is committed to academic excellence, research, and industry partnerships, aiming to prepare future engineers, architects, and managers for success. The university operates on the philosophy of "Think Good, Do Good, Be Good," viewing education as a service rather than a business. Its dynamic model, coupled with qualified faculty, skilled staff, and excellent infrastructure, makes it a highly sought-after institution for technical education.



<https://www.bput.ac.in/>

