



Maharaja Agrasen Institute of Technology, Delhi

Department of Mechanical Engineering

Dated: 01-7-2026

Department: Mechanical Engineering

Month: July 2026

Name of HoD: Dr. Vaibhav Jain

Date of Submission: 01-07-2026

Sl. No.	Name of Activity	Type of Activity	Proposed Date	Target Participants	Faculty Coordinator	Expected No. of Participants	Venue	Collaboration (Industry/External Expert)	Expected Outcome	Approval Status (Director Office)
1	Faculty Development Programme (FDP) on "Outcome-Based Education (OBE) and NBA-SAR for Quality Assurance"	Faculty Development Programme (FDP)	27-31 July 2026	Faculty Members of MAIT and other Engineering Institutions	Dr. Anil Kumar Dahiya, Associate Professor, ME, Department	40-50 Faculty Participants	Room No. 214, Block-2, Department of Mechanical Engineering, MAIT	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh (Remote Centre)	To enhance faculty understanding of Outcome-Based Education (OBE), NBA Revised SAR (GAPC 4.0), CO-PO mapping, assessment and attainment, Continuous Quality Improvement (CQI), and NBA accreditation processes through expert sessions and practical activities.	

Declaration: The above activity is proposed by the Department for July 2026 and will be organized in accordance with institutional guidelines.

Signature of HoD:

For Director's office: Approved/Not Approved

Remarks:

Signature:

Director, MAIT



Dated: 03-8-2026

EVENT REPORT

Five-Day Faculty Development Programme (FDP) "Outcome-Based Education (OBE) and NBA-SAR for Quality Assurance"

1. Basic Details

Title of the Activity: Five-Day Faculty Development Programme (FDP) on "Outcome-Based Education (OBE) and NBA-SAR for Quality Assurance"

Theme/Focus Area: Outcome-Based Education (OBE), NBA Accreditation (GAPC 4.0), Continuous Quality Improvement (CQI), and Quality Assurance in Technical Education.

Date:

27-31 July 2026

Day:

Monday to Friday

Time:

10:00 AM – 4:00 PM

Venue: Room No. 214, Department of Mechanical Engineering, Maharaja Agrasen Institute of Technology (MAIT), Delhi (Remote Centre)

Organized by: Department of Mechanical Engineering, MAIT, Delhi, as a remote center in association with the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh

Activity Coordinator: Dr. Anil Kumar Dahiya, Associate Professor, Department of Mechanical Engineering, MAIT

Number of Participants:

- Faculty Members: 45
- External Participants: 5 Faculty Members from various institutions

2. Resource Person Details:

The Faculty Development Programme featured lectures and interactive sessions by eminent academicians and NBA experts from NITTTR Chandigarh and leading engineering institutions. The programme was coordinated by Prof. Rakesh Wats, who also conducted sessions on institutional preparedness for NBA accreditation, NBA team visit procedures, presentations, and valedictory activities.

Resource Person	Designation & Organization	Session/Area of Expertise
Prof. Rakesh Wats	Course Coordinator, NITTTR Chandigarh	Programme Introduction, Institutional Preparation for NBA, NBA Team Visit & Reporting, Group Activities, Presentations, and Valediction
Dr. S. S. Banwait	Retired Professor, Mechanical Engineering Department, NITTTR Chandigarh	Accreditation as a Step towards Academic Excellence
Prof. Maitreyee Dutta	Professor, IMEE Department, NITTTR Chandigarh	Outcome-Based Education and Quality Assurance
Prof. Mahua Chakrabarti	Retired Professor, VJTI, Mumbai	Outcome-Based Curriculum (Criterion I) and Outcome-Based Teaching-Learning (Criterion II)
Prof. Seshachalam	Professor, BMS Engineering College, Bengaluru	Outcome-Based Assessment (Criterion III)
Dr. B. S. Dhaliwal	Associate Professor, ECE Department, NITTTR Chandigarh	CO-PO-PSO Attainment and Criterion III Practical Sessions
Prof. Sanjay Sharma	Professor, Civil Engineering Department, NITTTR Chandigarh	Student Performance, Faculty Information & Faculty Contributions (Criteria IV-VI)
Prof. Dharminder Kumar Gupta	Retired Professor, Guru Jambheshwar University, Hisar	Facilities, Technical Support, Continuous Improvement, Student Support & Governance (Criteria VII-IX)

3. Objectives of the Activity

The objectives of the FDP were:

1. To familiarize faculty members with the principles and implementation of Outcome-Based Education (OBE).
2. To enhance understanding of NBA Revised SAR (GAPC 4.0) and accreditation processes.
3. To strengthen competency in Course Outcome (CO), Program Outcome (PO), and Program Specific Outcome (PSO) mapping, assessment, and attainment.
4. To promote Continuous Quality Improvement (CQI) practices for improving academic quality.
5. To develop institutional preparedness for NBA accreditation through practical demonstrations and group activities.

PO/PSO Mapping

- PO6 – Engineer and Society
- PO9 – Individual and Team Work
- PO10 – Communication
- PO11 – Project Management and Finance
- PO12 – Life-long Learning

SDGs Addressed

- SDG 4 – Quality Education
- SDG 9 – Industry, Innovation and Infrastructure
- SDG 17 – Partnerships for the Goals

4. Description of the Activity

The Department of Mechanical Engineering, Maharaja Agrasen Institute of Technology (MAIT), successfully hosted the Five-Day Faculty Development Programme on "Outcome-Based Education (OBE) and NBA-SAR for Quality Assurance" from 27th to 31st July 2026 as a Remote Centre in collaboration with the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh.

The programme commenced with an introductory session by Prof. Rakesh Wats, who explained the objectives, structure, and significance of the FDP. This was followed by an inspiring lecture by Dr. S. S. Banwait on accreditation as a pathway to academic excellence. Throughout the programme, eminent experts delivered comprehensive sessions on Outcome-Based Education, curriculum design, outcome-based teaching-learning, assessment methodologies, CO-PO-PSO attainment, NBA Revised SAR (GAPC 4.0), institutional preparation for NBA accreditation, and Continuous Quality Improvement (CQI).

The FDP incorporated interactive lectures, case studies, question-answer sessions, and hands-on group activities. Participants worked collaboratively on NBA criteria-based assignments, analysed practical accreditation scenarios, and presented their findings. These activities provided valuable practical exposure to accreditation documentation and quality assurance practices. The programme concluded with participant presentations, feedback, and a valedictory session, leaving participants better equipped to implement OBE and quality assurance practices in their respective institutions.

5. Learning Outcomes / Impact

After completing the FDP, participants were able to:

- Understand the philosophy and implementation framework of Outcome-Based Education.
- Design measurable Course Outcomes and align them with Program Outcomes and Program Specific Outcomes.
- Apply appropriate assessment and attainment methodologies.
- Gain practical knowledge of NBA Revised SAR (GAPC 4.0) documentation and accreditation requirements.
- Understand Continuous Quality Improvement (CQI) practices for academic excellence.
- Develop teamwork, communication, and problem-solving skills through collaborative group activities.
- Strengthen institutional preparedness for NBA accreditation.
- Contribute towards achieving SDG 4, SDG 9, and SDG 17.

6. Photographs & Documentation

The following documents are enclosed with the report:

- Attendance Sheets
- Participant List
- Programme Schedule
- Event Poster/Brochure
- Geo-tagged photographs of the event

7. Feedback Summary

Feedback Collection Method:

Google Form and participant interaction during the valedictory session.

Average Rating: 4.88/5

Feedback Highlights

- More than 95% of the participants rated the FDP as Excellent or Very Good.
- Sessions were informative, well-structured, and highly relevant to NBA accreditation.
- Resource persons explained concepts using practical examples and institutional case studies.
- Group activities significantly enhanced understanding of NBA GAPC 4.0.
- Participants appreciated the excellent coordination and arrangements at MAIT.
- Several participants recommended organizing advanced programmes on attainment calculations and NBA documentation.

8. Recommendations / Future Scope

- Organize advanced FDPs on NBA Revised SAR (GAPC 4.0) implementation.

- Conduct hands-on workshops on attainment calculation and Continuous Quality Improvement.
- Include institution-specific case studies and mock NBA peer-team visits.
- Strengthen collaboration between MAIT and NITTTR Chandigarh for future faculty development programmes.
- Organize discipline-specific quality assurance programmes for engineering departments.

9. Annexures

1. Attendance Sheets
2. Participant List
3. Programme Schedule
4. Event Poster/Brochure
5. Participant Feedback Summary
6. Geo-tagged Photographs
7. Sample Certificates

Report Prepared By



Dr. Anil Kumar Dahiya

Associate Professor, Department of Mechanical Engineering

Local Coordinator, FDP

Maharaja Agrasen Institute of Technology (MAIT), Delhi

Verified By

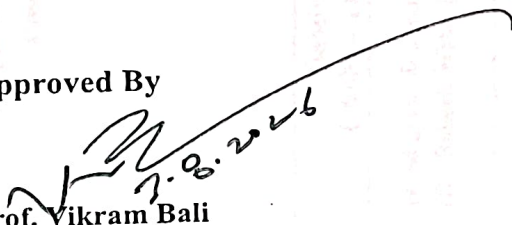


Dr. Vaibhav Jain

Head, Department of Mechanical Engineering

Maharaja Agrasen Institute of Technology (MAIT), Delhi

Approved By



Prof. Vikram Bali

Director

Maharaja Agrasen Institute of Technology, Delhi

Day/Date	Session-I (10:00 - 11:30 AM)	Session-II (11:45AM - 01:15PM)	L	Session-III (02:30 - 04:00PM)
Monday 27.07.2026	Introduction & about the Programme (Dr. Rakesh Wats/ Dr. S.S Banwait)	Accreditation a step towards Academic Excellence (Dr. S.S Banwait)	U N	Outcome Based Education and Quality Assurance (Dr. Maitreyee Dutta)
Tuesday 28.07.2026	Outcome Based Curriculum: Criteria I (NBA) (Dr. Mahua Chakrabarti)	Outcome Based Teaching Learning: Criteria II (Dr. Mahua Chakrabarti)	C H	Task on Criteria I & II (Dr. Rakesh Wats)
Wednesday 29.07.2026	Outcome Based Assessment: Criteria III (Dr. Seshachalam)	CO-PO-PSOs attainment (Dr. BS Dhaliwal)	B	Task on Criteria III (Dr. BS Dhaliwal)
Thursday 30.07.2026	Students Performance, Faculty Information & Faculty Contributions: Criteria IV to VI (Dr. Sanjay Sharma)	Facilities & Technical Support, Continuous Improvement; Student's Support & Governance: Criteria VII, VIII & IX (Dr. Dharminder Kumar Gupta)	R E	Institutional Preparation for NBA (Dr. Rakesh Wats)
Friday 31.07.2026	NBA Team Visit & Reporting (Dr. Rakesh Wats)	Presentation & Discussion (Dr. Rakesh Wats)	A K	Feedback & Valediction (Dr. Rakesh Wats)

Course Coordinator: Prof. Rakesh Wats

Resource Persons:

Prof. Seshachalam (Professor, BMS Engineering College, Bangalore), Prof. Mahua Chakrabarti (Retd. Professor, VJTI, Mumbai),

Prof. Dharminder Kumar Gupta (Retd. Professor Guru Jambheshwar University, Hisar, Haryana),

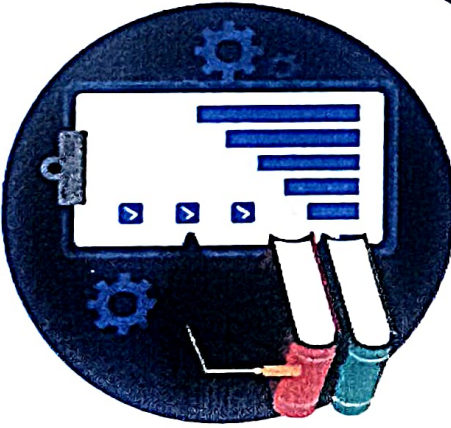
Dr. S.S Banwait (Retd. Professor, Mechanical Engineering Department, NITTTR Chandigarh),

Prof. Sanjay Sharma (Professor, Civil Engineering Department, NITTTR Chandigarh), Prof. Maitreyee Dutta (Professor, IMEE Department, NITTTR, Chandigarh),

Dr. BS Dhaliwal (Associate Professor, ECE Department, NITTTR, Chandigarh)

“OBE AND NBA-SAR FOR QUALITY ASSURANCE”

27 – 31 JULY 2026 (5 DAYS)



REGISTRATION STEPS

- 1 Login as a participant at our Online STC management portal
- 2 Click on Apply for STCs
- 3 Select the Department as Mechanical Engineering
- 4 Select the mode of course as Online
- 5 Click on Apply mentioned in front of the course with Option no as **HEMS-D4** and name as **OBE and NBA-SAR for Quality Assurance**
- 6 Against the option of Select the Venue from where you want to Attend the Course, Choose **Registered Remote Centre**
- 7 In the drop down box below choose the name of our Institute

ABOUT THE FDP

Outcome Based Education (OBE) and NBA accreditation are key to quality assurance in technical education. This FDP will help faculty members strengthen their understanding of OBE implementation, CO-PO attainment, Continuous Quality Improvement (CQI), and preparation of NBA Self-Assessment Reports (SAR) for accreditation and academic excellence.

OBJECTIVES

- 1 To strengthen faculty understanding of Outcome Based Education principles and implementation
- 2 To enhance knowledge regarding NBA accreditation criteria and SAR preparation
- 3 To improve CO and PO assessment and attainment practices
- 4 To support Continuous Quality Improvement (CQI) initiatives within the department
- 5 To prepare faculty members for accreditation related activities and documentation

EXPECTED BENEFITS TO MAIT

- 1 Capacity building of faculty members in OBE implementation and assessment
- 2 Enhanced preparedness for NBA accreditation and SAR documentation
- 3 Strengthening of quality assurance practices across departments
- 4 Opportunity for participation of faculty members at a nominal cost.
- 5 Increased interaction with experts from NITTTR Chandigarh.
- 6 Promotion of a culture of continuous improvement and outcome-based learning

<https://fdp.nitttrchd.ac.in/fdp2025/>

We extend our sincere gratitude to the Management for their constant encouragement and support.

Dr. Nand Kishore Garg
Founder Chairman & Advisor

Sh. Vineet Kumar Lohia
Chairman, MATES

Prof. Vikram Bali
Director, MAIT

Prof. S. S. Deswal
Dean, MAIT

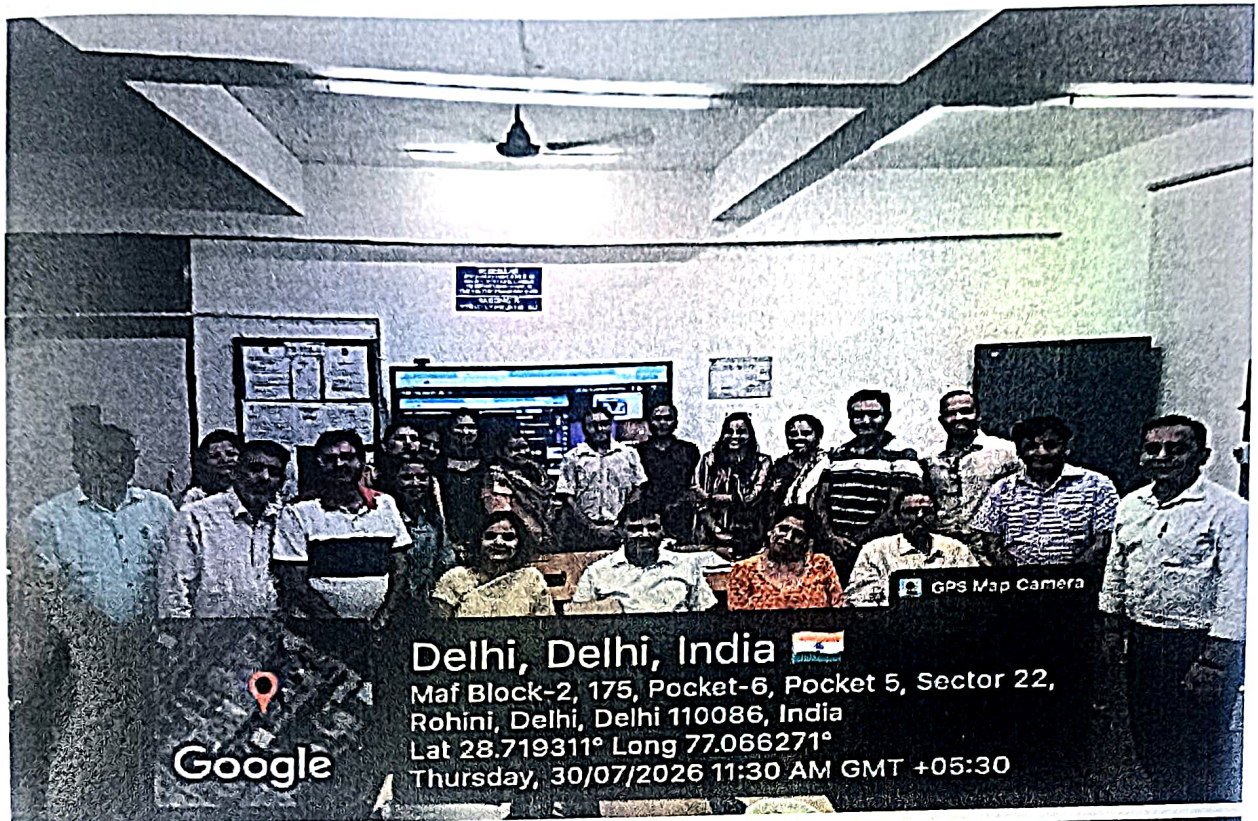
Prof. V. N. Mathur
HoD, MAE

Dr. Vaibhav Jain
HoD, ME

COORDINATOR

Dr. Anil Kumar Dahiya
Associate Professor
Department of Mechanical Engineering, MAIT
8130277097







New Delhi, Delhi, India
Guhana Road, Sector 22 Rukh, New Delhi, Delhi 110086,
India
Lat 29.719129, Long 77.066111
Tuesday, 28/07/2026 11:18 AM GMT-05:30
Note: Captured by GPS Map Camera

