

### About the Institute:

Sardar Patel Institute of Technology (S.P.I.T.) is a flagship institutions of the Bharatiya Vidya Bhavan, a trust of national eminence, a culture by itself, which was founded by Kulapati Dr. K. M. Munshi. It was established to meet the growing demand for engineering talent.

S.P.I.T. is a Numero Uno, self-financed, empowered autonomous engineering institution affiliated to University of Mumbai (UoM). The institute currently offers UG Engineering programmes in Computer, Computer Science, and Electronics & Telecommunication, as well as PG and Ph.D. programmes in Computer, Electronics & Telecommunication, and Masters of Computer Applications. All eligible programmes of the institute are accredited by the NBA under Tier-1. For the Academic Year 2024-25, the institute has been awarded NAAC Grade A under Tier-1 with a score of 3.2. It is top self-financed institute of Maharashtra as per the social ranking.

It was bestowed with the academic autonomy in 2017 and it has constantly innovated in curriculum design and delivery, T-L-E processes to excel. Over several years it has observed a spectacular placements and is rated number one in the state with regards to the average/median salary of the campus. It has demonstrated a leadership in implementation of NEP-2020 since its inception. It is constantly ranked in AA category by NPTEL, was a recipient of NIRF ranks, and ARIIA ranking. It demonstrates transparency in administration, admissions, academics, and follows all rules and regulations of the State Government / parent-university of Mumbai/AICTE/UGC. It has a Technology Business Incubation, supported by the DST, GoI under various schemes namely NIDHI-SSS, SISFS, and NIDHI-Prayas. It has incubated more than 180 start-ups. It has established AICTE-IDEA lab and is imparting skills to many stakeholders.

The institute strictly follows NEP guidelines in implementation of sustainable development goals, ethics. The institute has functional MoUs with reputed institutes and industries. The institute believes that engineering education at S.P.I.T. will not only offer students a degree but will transform their personality, empowering them to become world citizens. S.P.I.T. has celebrated its silver jubilee in the year 2024 with a grand alumni meet honoring the achievements of its alumni and reconnecting in meaningful ways.

### About the IQAC S.P.I.T.

The Internal Quality Assurance Cell (IQAC) of Sardar Patel Institute of Technology (S.P.I.T.) was established on 12 July 2017 in accordance with the guidelines of the National Assessment and Accreditation Council (NAAC). The IQAC serves as the institution's central quality assurance mechanism, fostering a culture of continuous improvement, academic excellence, transparency, and accountability.

Aligned with the vision and mission of the institute, the IQAC plays a proactive role in planning, guiding, monitoring, and evaluating quality enhancement initiatives across academic, research, and administrative domains. It ensures that institutional practices remain consistent with national educational priorities such as NEP 2020, Outcome-Based Education (OBE), and accreditation requirements of NAAC and NBA.

The IQAC functions through a participative governance model involving faculty members, administrative staff, students, alumni, parents, industry experts, and academic professionals. It promotes evidence-based decision-making through systematic documentation, stakeholder feedback, internal and external audits, and regular performance reviews.

Key responsibilities of the IQAC include policy formulation, quality monitoring, accreditation support, capacity-building programs, stakeholder engagement, promotion of best practices, and continuous improvement of institutional processes. The cell coordinates academic, environmental, energy, gender, and administrative audits while maintaining essential quality records and reports.

The IQAC has significantly contributed to strengthening institutional quality by supporting curriculum development, enhancing teaching-learning processes, promoting innovative pedagogical practices, and establishing robust quality assurance frameworks. Through initiatives such as faculty recognition awards, structured feedback mechanisms, and quality benchmarking, it fosters excellence and innovation across the institution.

By institutionalizing quality assurance practices and encouraging stakeholder participation, the IQAC continues to play a pivotal role in sustaining academic standards, enhancing institutional effectiveness, and driving S.P.I.T. towards its vision of becoming a leading technical institution committed to holistic development and societal contribution.

#### Vision

To impart quality initiatives at the institute level through its innovative, comprehensive, and flexible approach in line with accreditation and ranking norms.



IIC S.P.I.T.  
Institution's Innovation Council



**Two-Day Online  
Faculty Development Programme (FDP)**

**On**

**Effective Implementation of  
Outcome Based Education  
(Emphasis on NBA SAR GAPC v4.0 Framework)**

**Duration:**

**12<sup>th</sup> June to 13<sup>th</sup> June, 2026**

**-----Organized by-----**

**Internal Quality Assurance Cell (IQAC)  
Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology**

**(An Empowered Autonomous Institute Affiliated to University of Mumbai)**

**Munshi Nagar, Bhavan's Campus,  
Andheri (W), Mumbai-400058.**

**-----In Association with-----**

**Department of Information  
Management & Emerging  
Engineering, NITTTR Chandigarh**

**Let noble thoughts come to us from every side. -Rig Veda 1.89.1**

### About NBA

The National Board of Accreditation (NBA) is an autonomous body under the All India Council for Technical Education (AICTE), Government of India, responsible for assessing and accrediting technical education programmes offered by higher educational institutions. NBA promotes quality assurance, continuous improvement, and OBE by evaluating programmes against defined standards aligned with national and international best practices. In recent years, NBA has adopted the Graduate Attributes and Professional Competencies (GAPC) framework, emphasizing measurable learning outcomes, attainment-based assessment, and continuous quality improvement. Accreditation by NBA serves as a benchmark of academic excellence and ensures that graduates possess the knowledge, skills, and professional competencies required to meet the evolving needs of industry and society.

### About NITTR and Resource Person

The National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, is a premier institution under the Ministry of Education, GoI, dedicated to improving the quality of technical education through faculty development, educational research, curriculum design, consultancy, and institutional capacity building. Established in 1967, the institute has played a significant role in strengthening engineering and technical education by promoting innovative TLE practices, educational technology, OBE, accreditation awareness, and quality assurance initiatives. Through its training programs, research activities, and academic collaborations, NITTTR Chandigarh continues to contribute to the professional development of educators and the advancement of technical institutions across the country.

Dr. Maitreyee Dutta is a Professor and Head of the Department of Information Management and Emerging Engineering at NITTTR Chandigarh. She is an experienced academician, researcher, and mentor with expertise in engineering education, information management, emerging technologies, curriculum development, educational quality assurance, and faculty development. She has contributed extensively to academic training programs, research initiatives, and institutional development activities, supporting the enhancement of TLE and quality practices in higher technical education.

### About the FDP

Outcome-Based Education (OBE) is a key component of quality assurance and accreditation in engineering education. With the introduction of NBA SAR based on GAPC 4.0, institutions are expected to adopt structured and outcome-driven academic practices. This FDP aims to provide participants with an understanding of OBE principles, formulation of Course Outcomes (COs), CO-PO mapping, attainment analysis, action plan preparation, and course file documentation as per the latest NBA guidelines. The programme is intended for faculty members, academic administrators, and quality assurance personnel involved in curriculum design, assessment, and accreditation activities.

### Objectives

- To familiarize participants with the framework of OBE in the context of NBA SAR GAPC 4.0.
- To enable faculty members to formulate measurable and assessable Course Outcomes (COs) as per the revised SAR guidelines.
- To provide hands-on understanding of CO-PO mapping methodologies aligned with GAPC 4.0 requirements.
- To demonstrate systematic approaches for CO-PO attainment calculation, analysis of observations, and preparation of corrective action plans.

### Outcome

After successful completion of the FDP, participants will be able to:

- Develop well-defined COs aligned with the revised NBA SAR GAPC 4.0 framework.
- Perform effective CO-PO mapping using appropriate methodologies and justification mechanisms.
- Calculate and analyze attainment levels, identify gaps, and formulate action plans for continuous quality improvement.

### Schedule

Date/Day	Time	Contents
12 <sup>th</sup> June 2026 Friday	10:00 am to 11:30 am	• Introduction to OBE • New NBA SAR GAPC v4.0 framework
	11:45 am to 1:00 pm	• Framing COs • CO-PO Mapping
13 <sup>th</sup> June 2026 Saturday	11:00 am to 1:00 pm	• CO-PO Attainment • Observations • Action Plan

### Chief Patron

Dr. Sesha Iyer, Chairman

### Patrons

Dr. B. N. Chaudhari, Principal, S.P.I.T.

Dr. Y. S. Rao, Vice Principal, Dean, RP, S.P.I.T.

### Convener

Dr. R. Kumbhare, Dean-Academics, S.P.I.T.

Dr. S. N. Dhage, Dean-Administration, S.P.I.T.

Dr. K. T. Talele, Dean-Student Affairs-External Relations, S.P.I.T.

### Advisors

Dr. R. R. Sawant – Professor, Dean, SRIC, S.P.I.T.

Dr. Deepak Karia, Dean, FIRM, S.P.I.T.

Dr. Dayanand Ambavade, Dean, ITIS, S.P.I.T.

Dr. Sukanya Kulkarni, Dean, EE, S.P.I.T.

Dr. Dyanraj Patil, Head, ASMH Department, S.P.I.T.

Dr. S. G. Bhirud, Vice Chancellor of COEP, Pune

Dr. M. S. Sutaone, Director, IIIT Allahabad

Dr. S. S. Rathod, Director, WCE, Sangli

Dr. A. N. Awale, Professor, VJTI, Mumbai

Dr. N. Sawant, Sr. Manager, Dolby Tech. India Pvt. Ltd. Mumbai

### Coordinators

Dr. D. R. Kalbande, Professor

Computer Sci. & Engineering Department, Dean S.P.I.T. IQAC

Dr. P. V. Kasambe, Assistant Professor

Electronics & Telecommunication Engineering Department,

Associate Dean S.P.I.T. IQAC

### Organizing Committee

Dr. P. B. Bhavtankar, Associate Professor, CE Department

Prof. J. Y. Ramteke, Assistant Professor, CE Department

Prof. N. S. Mulla, Assistant Professor, CSE Department

Prof. H. T. Kanakia, Assistant Professor, CSE Department

Dr. A. S. Deshpande, Assistant Professor, EXTC Department

Prof. P. A. Deshpande, Assistant Professor, EXTC Department

Prof. Ananthaxmi V., Assistant Professor, ASMH Department

Prof. C. R. Gajbhiye, Assistant Professor, ASMH Department

### Contact for any queries:

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### Resource Persons:

Dr. Maitreyee Dutta, Professor and Head

Department of Information Management & Emerging Engineering,  
NITTTR Chandigarh

**FDP Session Link:** <https://meet.google.com/hiy-zfgv-oqg>