



Bharath Institute of Higher Education and Research

(Deemed to be University)

Office of the Dean of Engineering,

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SBIST/ACAL/POL/2025-26/001

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OFFICE ORDER

MANDATORY MOOC ELECTIVES THROUGH SWAYAM / NPTEL

or

ELECTIVES MANDATORILY THROUGH SWAYAM / NPTEL (MOOCs PLATFORM)

1. PREAMBLE

In alignment with the **National Education Policy (NEP) 2020**, **AICTE guidelines on MOOCs**, and the **Outcome-Based Education (OBE) framework**, Sree Balaji Institute of Science and Technology (SBIST) mandates that designated elective courses shall be completed through the **SWAYAM / NPTEL platform**.

This initiative is undertaken to:

- Provide access to high-quality national academic resources
- Expand elective choices beyond traditional classroom offerings
- Promote digital and self-directed learning
- Strengthen interdisciplinary exposure
- Enhance employability and skill development

The integration of SWAYAM/NPTEL into the curriculum reflects the institution's commitment to flexible, technology-enabled, and learner-centric education.

2. POLICY STATEMENT

Students are required to enroll in prescribed SWAYAM / NPTEL courses as **Mandatory MOOC Electives** during specified semesters.

Successful completion of the prescribed MOOC is compulsory for:

- Award of elective credits

- Academic progression
 - Inclusion in academic transcript
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3. INTEGRATION OF SWAYAM INTO CURRICULUM

SBIST integrates SWAYAM/NPTEL courses directly into the approved curriculum structure.

These MOOCs are:

- Approved by the Academic Council
- Reflected in the syllabus documents
- Mapped to Program Outcomes (POs) and Course Outcomes (COs)
- Included in semester-wise course registration

4. SEMESTER-WISE MANDATORY MOOC ELECTIVES

Semester I – Mandatory MOOC Electives

1. **Course Title:** Introduction to Electromagnetic Theory
Official Link: <https://nptel.ac.in/courses/115104088>
2. **Course Title:** Engineering Mathematics – I
Official Link: https://onlinecourses.nptel.ac.in/noc25_ma79/preview
3. **Course Title:** Clean, Green and Sustainable Technologies
Official Link: https://onlinecourses.swayam2.ac.in/ntr26_ed30/preview

Semester II – Mandatory MOOC Electives

1. **Course Title:** Basic Electrical Circuits
Official Link: Basic Electrical Circuits – Course
2. **Course Title:** Operating System Fundamentals
Official Link: <https://nptel.ac.in/courses/106105214>
3. **Course Title:** Computer Networks and Internet Protocol
Official Link: Computer Networks and Internet Protocol – Course
4. **Course Title:** Cloud Computing Basics
Official Link: <https://nptel.ac.in/courses/106105167>
5. **Course Title:** Communicative English
Official Link: <https://nptel.ac.in/courses/115104088>
6. **Course Title:** Universal Human Values – II
Official Link: <https://nptel.ac.in/courses/109104085>

These courses are communicated through syllabus documents and academic advisories to ensure clarity and transparency.

5. ELECTIVE SELECTION & ENROLLMENT PROCESS

Students must:

- Register directly on the official SWAYAM/NPTEL platform
- Enroll within prescribed registration timelines
- Select only the courses approved for the semester

The institution ensures that:

- Registration timelines are communicated in advance
- Students understand the mandatory nature of the MOOC elective
- Academic guidance is provided for platform navigation

This structured process avoids ambiguity and ensures smooth enrollment.

6. ACADEMIC SUPPORT & FACULTY INVOLVEMENT

To ensure effective learning, each department appoints **MOOC Faculty Coordinators** who:

- Guide students in course selection
- Assist in registration
- Clarify course expectations and timelines
- Monitor progress
- Provide academic mentoring
- Conduct doubt-clearing sessions if required

This ensures that online learning is complemented with institutional academic support.

7. FLEXIBILITY & SELF-PACED LEARNING

SWAYAM/NPTEL courses offer:

- Flexible scheduling
- Self-paced learning
- Access to recorded lectures
- Online assignments and quizzes

This enables students to balance academic workload while benefiting from nationally curated content.

8. MONITORING OF PROGRESS

Student participation is monitored through:

- Enrollment verification
- Interim progress checks
- Assignment submission tracking
- Completion status verification

Students must complete:

- All assignments
- Online quizzes
- Final proctored examination (if applicable)

9. ASSESSMENT & CREDIT RECOGNITION

Upon successful completion:

- Students submit official Course Completion Certificate
- Certificates are verified by the Department
- Credits are awarded as per institutional norms

The MOOC is recorded in:

- Academic transcript
- Grade Sheet
- Credit summary records

Credit mapping is aligned with PO/CO and OBE framework.

10. DOCUMENTATION & RECORD MAINTENANCE

For compliance and audit purposes, the institution maintains:

- Approved curriculum showing MOOC integration
- Semester-wise list of SWAYAM/NPTEL electives
- Official course links
- Student enrollment data

- Completion data
- Verified certificates

These records are available during AICTE, NAAC, and NBA inspections.

11. ALIGNMENT WITH NEP 2020

Mandatory MOOC integration supports NEP 2020 objectives by:

- Promoting learner-centric education
- Encouraging interdisciplinary exposure
- Supporting digital and blended learning
- Facilitating access to high-quality national faculty
- Encouraging lifelong learning

12. QUALITY ASSURANCE & CONTINUOUS IMPROVEMENT

The list of SWAYAM/NPTEL courses is reviewed periodically based on:

- Curriculum updates
- Student feedback
- Industry requirements
- Regulatory updates

Necessary revisions are incorporated to ensure academic relevance and effectiveness.

13. PROMOTION OF LIFELONG LEARNING

By mandating SWAYAM/NPTEL electives, SBIST fosters:

- Self-directed learning
- Critical thinking
- Digital literacy
- Exposure to national academic excellence
- Skill enhancement for 21st-century careers

This initiative strengthens the institution's commitment to inclusive, flexible, and outcome-oriented education.

14. COMPLIANCE STATEMENT

The institution fully complies with AICTE guidelines on MOOC integration and NEP 2020 recommendations for credit transfer and blended learning.

MOOC electives are:

- Academically approved
- Properly documented
- Credit-mapped
- Monitored and evaluated
- Integrated into official academic records

J. Indumathi



