



Shri Aillak Pannalal Digamber Jain Pathashala's

# WALCHAND INSTITUTE OF TECHNOLOGY

(An Autonomous Institute)

- Accredited by **NAAC A+ Grade** and **NBA, New Delhi** for all six UG courses
- Winner of AICTE-CII Survey 2013, 2014 & 2018 Award for Best Industry-Linked Institute.
- Recognized by **AICTE**, New Delhi
- Permanently affiliated to **Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
- Solapur Jurisdiction only.

Seth Walchand Hirachand Marg, Ashok Chowk, Post Box No.634, SOLAPUR – 413006.

☎ : 2651388, 2652700, 2653040 ●Fax: (0217) 2651538 ●Email: principal@witsolapur.org ●Website: [www.witsolapur.org](http://www.witsolapur.org)

## 1. Title of the Practice:

Inculcating life-long learning through self-learning using Coordinated Student Development (CSD) model

## 2. Objectives of the Practice

- 1) To inculcate lifelong learning through a CSD model
- 2) To facilitate an access to various global platforms
- 3) To empower student with emerging technologies

## 3. The Context

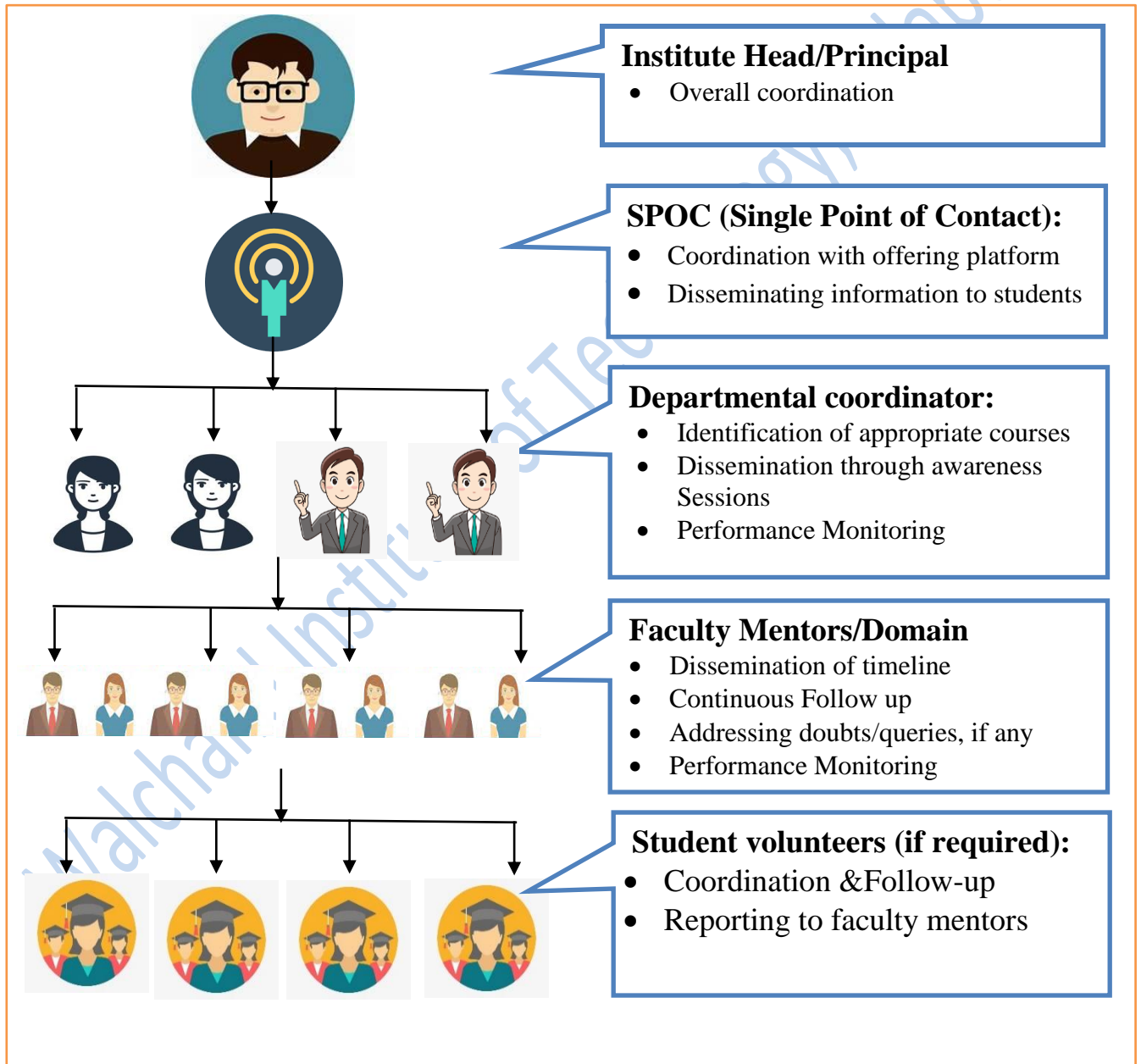
The technological development is evolving at a rapid pace beyond imagination. To accommodate these continuously ever-evolving changes into the course curriculum from time to time is a challenging task. As overall technological development is enormous, the course curriculum cannot be all inclusive at any given instance of time. Also, it is not possible to accommodate all possible knowledge domains as a part of course curriculum as well it is unlikely to accommodate choice of every student. The choice of individual learner to the expected breadth and depth can be made possible through various MOOC platforms, including emerging areas.

Also, the constraints imposed due to COVID-19 pandemic situation has resulted in significant transformation in the education system because of compelled online education system in place of on campus education system through virtual classrooms for content delivery and interactions.

Looking to all above, this is an attempt to make it possible by inculcating, lifelong learning through self-learning, to accommodate varying choices of students and situational constraints. This will also be beneficial & effective even after restoration to pre pandemic situation.

#### 4. The Practice

Our Coordinated Student Development (CSD) model aims at inculcating lifelong learning through continuous self-learning. It is an observation that generally in normal circumstance the entire system is left to students and the success rate observed is low. With an objective to enhance success rate and to facilitate the learning process to be a joyous one, Institute has developed the following CSD model:



**Coordinated Student Development (CSD) model**

- **Feedback and review**

Two-way communications are effectively maintained. Regular feedback on implementation & effectiveness is taken and accordingly addressed into review meetings for corrective actions, if any.

## 5. Evidence of Success

The success rate of MOOC implementation at the institute level is @90% which is very much higher as compared to the success rates observed globally.

- **Infosys Springboard**

The institute has been recognized as the leading institution in Maharashtra for achieving the highest number of certifications, and it ranks second in the state for course completion rates on the Infosys Springboard platform. During the academic year 2022-23, approximately 776 students, encompassing first-year, direct second-year, and postgraduate levels, along with 27 faculty members, were successfully onboarded onto the Infosys Springboard.

*Table 1 Infosys Springboard User Progress Report*

	<b>Acd. Year 2022-23</b>
<b>New Registrations</b>	803
<b>Number of Courses available</b>	More than 200
<b>Number of students completed Certifications</b>	563
<b>Number of students completed Course Certificates</b>	5880

Eight faculty members have participated in and completed the Faculty Enablement Program (FEP) offered by Infosys, enhancing their pedagogical skills and subject knowledge. Additionally, six faculty members have successfully earned Google Certifications through Coursera, specifically in the domains of Google Project Management and Google Finance Data Analytics Professional.

In terms of student achievements, 18 students have successfully completed internships, providing them with practical experience and industry exposure. Furthermore, 12 students have obtained Google Certifications facilitated by Infosys across various domains, signifying their proficiency and specialized knowledge.

To date, the students have collectively achieved 563 certifications in diverse fields, including Python Foundation Certification, Artificial Intelligence Primer Certification, Java Developer Certification, and Associate in IT Foundation Skills (Python), demonstrating a broad range of competencies and a commitment to continuous learning and professional development.

#### ○ NPTEL

The NPTEL Local Chapter at Walchand Institute of Technology (WIT), Solapur, has shown significant engagement and achievements in the academic year 2022-23. Institute, has demonstrated commendable engagement and achievements in the academic year 2022-23. The dedication of both students and faculty to enhancing their knowledge and skills through NPTEL courses is evident in their participation rates, performance, and certification outcomes. With strategic support and encouragement, the chapter is well-positioned to achieve even greater success in future academic years, contributing significantly to the academic and professional development of its participants.

#### **Participation Overview**

**Total Engagement:** The chapter witnessed enthusiastic participation from both students and faculty members. The student body constituted the majority of the participants, with an impressive 85.94% participation rate, underscoring the students' keen interest in leveraging the NPTEL platform for their academic and professional development. Faculty members also actively engaged in the program, accounting for 14.06% of the total participation, which highlights the faculty's commitment to continuous learning and development.

#### **Certification Outcomes**

##### **Students:**

The certification distribution among students highlights varied levels of achievement:

39 students did not receive a certificate, suggesting areas for improvement.

36 students were awarded the Elite certificate, demonstrating superior performance.

20 students successfully completed their courses.

15 students achieved the Elite+Silver certificate, marking them as high achievers.

## **Faculty:**

The faculty's certification achievements were notable for their diversity and high level:

7 faculty members received the Elite+Silver certificate.

5 faculty members were awarded the Elite certificate.

4 faculty members did not receive a certificate, indicating potential areas for enhancement.

1 faculty member stood out with the Elite+Gold certificate.

1 faculty member successfully completed their course.

- Links for Feedback by the students about NPTEL:
  - <https://youtu.be/C7YkE1mZy9w>
  - <https://youtu.be/fnT7ThA4Xy0>
  - <https://youtu.be/ypdIVIfn16g>

- **Coursera:**

We introduced access to courses of Coursera platform to deliver job-relevant, multi-disciplinary online learning to our campus community that empowers students, alumni, faculty, and staff with a world-class education. The major domains opted by learners include Computer Science, Data science and Business.

## **6. Problems Encountered and Resources Required**

### **Problems Encountered**

- Subscribed Mobile Data plan was observed to be inadequate for watching online videos for some students.
- Students from countryside were finding it difficult to complete assignments, especially for programming related courses due to poor Internet connectivity and appropriate hardware.

- **Infosys Springboard**

- Learning analytics is not updated in real time and it is not user friendly for analyzing student performance department wise
- Technical issues in Online Proctored examination resulting in lesser completion rate certification
- Too high course duration for few of the certification courses (400 hrs for JAVA certifications courses)

- **NPTEL**
- Economically weaker students were finding it difficult to afford the registration fees to undertake examination for the SWAYAM-NPTEL courses; to certain extent, this problem was resolved by offering scholarship in the form of exam part fee waiver scheme.

### **Resources required**

- Infrastructure
  - i. Desktop/Laptop/Tab/Smartphone with audio
  - ii. Adequate Internet connectivity
  - iii. Collaborations to access online platforms
- Human Resources as per CSD model.

### **7. Notes**

The expectations for the jobs are changing as artificial intelligence, machine learning, robotic process automation and other digital capabilities are overwhelming the workplace. It therefore becomes imperative for student to constantly learn new skills and develop capabilities that will make them ready for the jobs of the future.

Also, Online learning is observed to be beneficial and cost effective with certain inbuilt challenges. These inbuilt challenges are: IT infrastructure, tie-ups with MOOC platforms, selection of appropriate courses and course completion rate. Our success rate was commendable and appreciated by respective platforms which is due to our CSD model. For ensured success, this proven model can be adopted by other institutes.