



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.

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## 1. Title of the Practice:

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

## 2. Objectives of the Practice

- To inculcate lifelong learning through a CSD model
- To facilitate an access to various global platforms through tie-ups, including industry collaborations to enhance professional development
- To encourage students to take up appropriate courses to earn credits and/or for overall development, in self-learning mode at their pace.

## 3. The Context

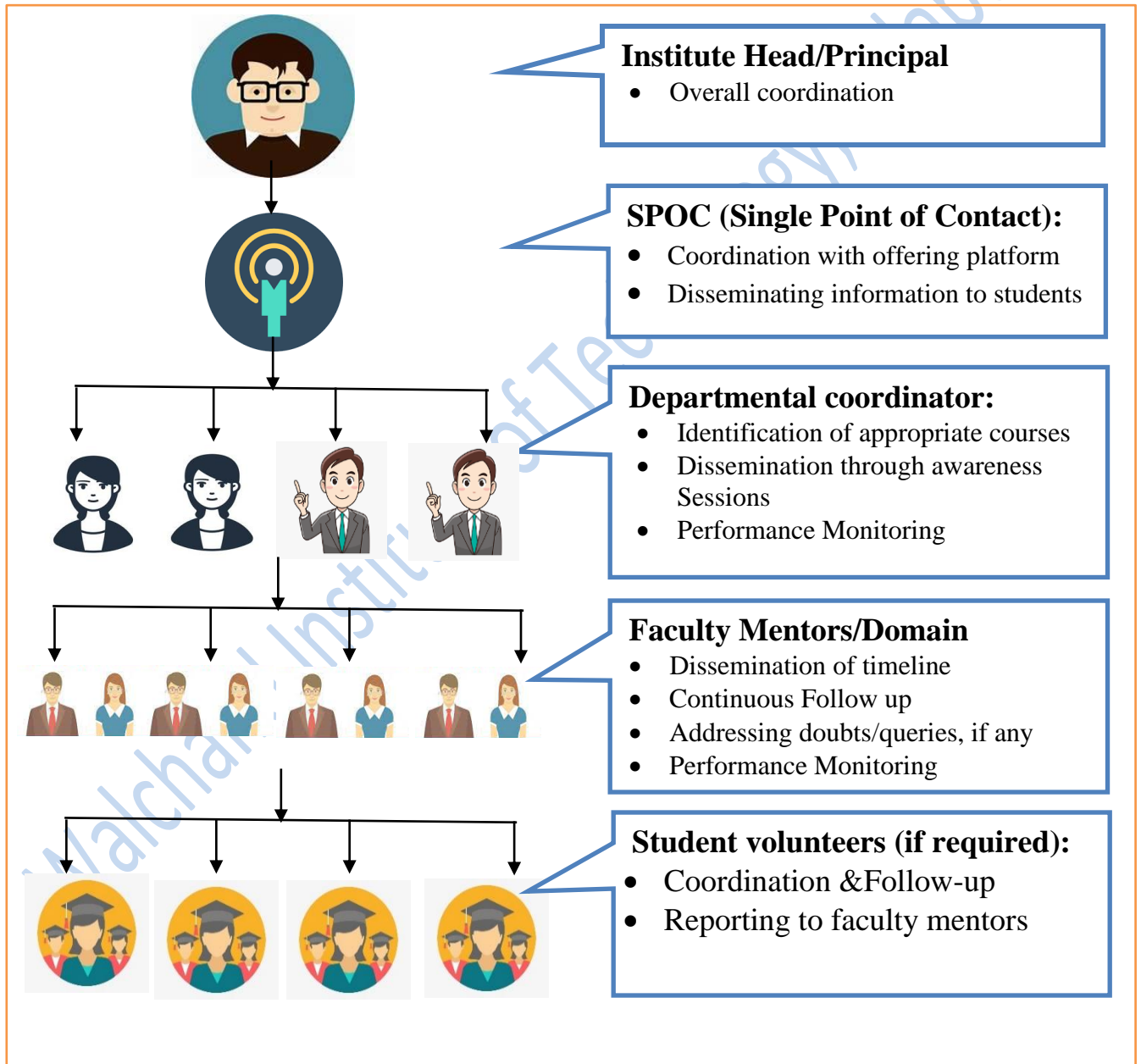
The technological development is evolving at a rapid pace beyond imagination. To accommodate these continuously ever-evolving changes into the course curriculum from time to time is a challenging task. As overall technological development is enormous, the course curriculum cannot be all inclusive at 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 much higher as compared the success rates observed globally due to this coordinated structure. The student's employability enhanced considerably resulting into 41% increase in the number of offers. Also, the average package offered is increased by 30 %

Platform	Enrollment		No. of completions/certifications	Awards/achievements/Recognitions
	No. of Enrollments	No. of Students		
NPTEL	4767	1251	852 certifications	27 National Level Toppers from the institute <ul style="list-style-type: none"> <li>• Topper of 1%: 6 Nos.</li> <li>• Topper up to 2%: 12 Nos.</li> <li>• Topper up to 5%: 27 Nos.</li> </ul>
eDX	2552	1682	2552 certifications	Institute has got an appreciation from Edx for our largest number of certifications
Infosys Springboard	10179	2484	7779 Course Completion	Institute is Recipient of star achievers award in Infosys Campus Connect Conclave.
Infosys Springboard certifications	265	265	265 certifications	
Coursera	879	760	760	No such Provision.

- **NPTEL:**

Due to this outstanding performance, our NPTEL Local Chapter (LC ID 863) is Top ranked at State Level. NPTEL Local Chapter performance and statistics is given below and is also available at NPTEL url:<https://nptel.ac.in/LocalChapter/statistics/863/>

The details of certification is as follows:

No of Registrations	Gold (Score >=90)	Silver (Score 75-89)	Elite (Score 60-74)	Successful (Score 40-59)	Total Certification
	A	B	C	D	A+B+C+D+E
1251	11	210	460	171	852

- Links for Feedback by the students about NPTEL:

- <https://youtu.be/C7YkE1mZy9w>
- <https://youtu.be/fnT7ThA4Xy0>
- <https://youtu.be/ypdIVIfn16g>

- **eDX:**

The courses offered on eDX platform are by well-known international universities like MIT University, Harvard University and industries like, AWS, RedHat and IBM.

The Edx Courses subscription was made available to students from during the A.Y. through AICTE collaboration. Total 2500 licenses are allocated which are totally utilized successfully.

Detailed edx performance report is available on the link:

<https://drive.google.com/file/d/1QyNZlozYeiEg2wJ1k2Q8FifnKGSnClcC/view?usp=sharing>

- **Infosys Springboard**

This is a repository of content and a learning path for a list of new age technology areas. This content includes self-paced learning material, interactive learning aids (quizzes, exercises), bite sized learning videos, playgrounds for practice and much more innovative learning features.

Access to all above was made simple by creating a separate institute microsite on Infosys platform, which is a one-stop destination, that educational institutions can use to their benefit to host internal content with access exclusively for their faculty and students.

All the students are on-boarded on spring board in one go. Detailed report on spring board learning is available on the link:

<https://drive.google.com/file/d/14vi7vF1pbK27TqwMLvg9nfHDb1qbdmZK/view?usp=sharing>

- **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. The detailed link for Coursera statistics can be accessed through the following link.

<https://drive.google.com/drive/folders/19DFxb77vAIqpdMAXBNYjYwvLeAmUqtq?usp=sharing>

## **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.
- **NPTEL**
- Due to Covid 19 pandemic NPTEL Proctored examination for certification was postponed twice while students were at their native place. This has led to non-availability of convenient exam center near their native place which resulted into **significant cancellation of exam registration**.
- 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.
- **COURSERA**
- The course completions were on certain occasions were getting delayed for some courses due to delayed response for Peer Review assignments.

### **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**

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.