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## **NAAC Qualitative Metrics**

### **Criterion VII – Institutional Values and Best Practices**

#### **7.2.1 State at least two department/institute best practices, as per NAAC format.**

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##### **1. Academic Enrichment for Faculties through MOOC Certification**

###### **1. Objectives of the Practice**

- Develop a more in-depth and practical exposure of a particular subject by enrolling in a certification course from a reputed university.
- Best and innovative method for updating their domain knowledge.
- To gain academic excellence and impart knowledge in detail to students.
- To learn ideas and innovation in teaching particular subjects and make them interesting for students.
- To enrich faculties with current trends and research related to particular certification.
- To promote overall personality development of learners addressing all the educational domains through certification.
- To orient learners towards self-learning and develop skills in communication.
- To diversify the programmed contents and to establish greater relevance to local socio-economic problems.
- Demonstrate new models of intervention facilitating critical thinking and analysis by responding to the emerging needs and changing social realities.
- To facilitate awareness of the current trend and movement in the field of their own expertise.

###### **2. The Context**

- Survey that revealed that in some cases as many as 39% of our learners are teachers. “This finding forces us to broaden our conceptions of who MOOCs serve and how they might make a difference in improving learning.” Researchers also recommend using MOOCs to increase blended learning on campuses like using MOOC content in traditional lecture courses. “The real potential is in the fostering of feedback loops between the two realms,” Chuang said. “In particular, the high number of teacher participants signals great potential for impact beyond Harvard and MIT, especially if deliberate steps could be taken to share best practices.” It can be a highly fruitful arrangement for the learner, university and industry, which can contribute in transforming the face of the youth of our nation. The objective of the paper will be to focus on providing a framework for the learner, trainer, university and industry beneficial for everyone.

### **3. The Practice**

- Established expertise and increased in-depth knowledge of faculties/teachers in their domain knowledge.
- Mooc's can be used as a tool to empower youth of our nation.
  - To blend the goal of attaining higher education
  - To incorporate the goal of facilitators
  - To include the role of university
  - To provide maximum benefit for the student.
  - To empower our nation.

### **4. Evidence of Success**

- Domain Knowledge improved vastly and practical exposure to real world problems is experienced.
- Peer learning is facilitated.
- Learn various ways to learn the same thing in an innovative manner and make students understand the importance of that subject.
- Formation of Curriculum/Academic coursework and research around field experience: It has acted as vital tools to promote field based curriculum/community based learning.

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

- Separate dedicated time allocation required for completing certifications.
- Additional learning resources.
- Administrative and academic reforms to facilitate change.
- Difficult to main tempo for long period to gain certification for faculty.

## **2. Industry Recognized Certification Courses**

### **1. Objectives of the Practice**

- The expansion of technology in recent times has fundamentally changed the ways in which education operates. Institutes are finding that emerging technologies are positively enabling growth, and are realizing that it pays to invest in professionals who are well equipped through the right certifications to explore this technology. The objectives of this practice are as follow:
- Places students among the elite in IT field, and serves as tangible recognition of meeting personal and organizational goals

- Preparing students for successful entry into real-world careers is the practical goal of education. CSPIT-IT is pleased to offer industry-ready certification programs for students. These standards-based programs foster confidence in students.
- Certification will boost a student's career and open a wealth of new opportunities for them.
- To Expand Student's employment opportunities
- To increase student's knowledge and qualifications
- Gain professional credibility
- Avail greater networking opportunities
- Complete projects with greater efficiency
- Increase the marketability of a student's resume by standing out from the crowd.
- Student will stay updated with the latest technologies & tools required to simplify their work
- Re-skill and up-skill student's knowledge
- Students get access to resources, frameworks, tools and labs from accredited certification providers
- Boost student's reputation among peers and higher ups
- Showcase willingness to engage in continuous and lifelong learning
- Access exclusive updates about the IT domain from the Certification Vendors Membership and Communities.

## 2. The Context

- IT is rife with opportunity and challenges. There are plenty of options to learn new and exciting skills. The biggest challenge was to know the kind of IT training student will be needing six months down the road. When it comes to IT, you never know what kind of disruptive technology will be introduced in the next few days that will render your plans obsolete.
- Diversity can bring a lot of new ideas, but it can be quite a challenge to deal with it. One problem with diversity in IT firms is that everyone has different learning styles, so you need to make sure that your training is done in a way that accommodates bilingual as well as multilingual people.

## 3. The Practice

- CSPIT-IT has incorporated following practice and its uniqueness:
  - **Redhat Academy:** Students will get exposure to open source operating systems like linux and also get Redhat certified.
  - **Microsoft IT Academy:** Students will get knowledge of Latest product of Microsoft. This certification is recognized all over world.
  - **aws Academy:** Together as A Club ASC aims to provide a platform for the intellectuals to learn and explore the Cloud fundamentals of AWS. As a part of the club we assure that every individual gets something productive out of this club. ACS intends to bring developers under one roof to create a community to inspire many. The club will be channeled into propagating learning and teaching symbiotically.
  - **CISCO:** Help in professional networking solutions in industry. Students will benefit from Core network competency.

- **ORACLE:** Learn to perform complex, hands-on activities through lab, study and practice sessions
- **EC-COUNCIL Academia Partner:** EC-Council recognizes the institution as an authorized EC-Council Academia Partner. The EC-Council Academia Partner network is the premier partnership for delivering high-quality, authorized EC-Council Cybersecurity related academic courses.

#### **4. Evidence of Success**

- CHARUSAT NPTEL Local chapter, Co-ordinated by Department of Information Technology; CSPIT has been recognized as Top-100 SWAYAM-NPTEL Local Chapter.
- NPTEL Local Chapter, CHARUSAT has Received “AAA” Grade by IIT-Madras based on the student’s performance and Local Chapter Activity
- NPTEL Local Chapter, CHARUSAT has become one of the Top-10 Local Chapters among the 1200+ Local Chapters all over India.
- NPTEL Local Chapter, CHARUSAT has received Grant of Rs. 1, 80,000 /- for Workshop on NPTEL. CHARUSAT had organized the awareness workshop on National Programme on Technology Enhanced Learning (NPTEL) in association with IIT-Madras. The workshop was sponsored by the HRD Ministry. Around 85 professors from over 50 engineering and science colleges attended the workshop.
  - 90+ AWS Certified students
  - Certified Ethical Hacker (11), Computer Hacking Forensic Investigator (02), Certified Network Defender (04), EC-Council Certified Incident Handler (06) and EC-Council Certified Security Specialist (04)
  - 50+ students placed in reputed industries.
  - 50+ students are doing internships.

#### **Problems Encountered and Resources Required**

- One problem with diversity in IT firms is that everyone has different learning styles, so you need to make sure that your training is done in a way that accommodates bilingual as well multilingual people
- Separate dedicated time allocation required for completing certifications.