Best Practices (2021-22)

During 2021-22, college was involved in number of practices related to co-curricular, extra-curricular and outreach programmes. To promote skill-oriented learning, IIC cell of the college has organized number of virtual sessions which was made open to all through our YouTube channel. Along with ongoing activities, we have initiated one unique vaccination drive for the students and staffs of our institute. A workshop on fire safety was scheduled in association with the team of Fire Brigade, Nagar Parishad, Wardha where hands-on-training on fire safety was also given to the students and staffs.

Best Practice 1

Title:

Spoken Tutorial of IIT Mumbai: Learning Free and Open-Source Software (FOSS) online.

Goal:

- To empower students with new software skills besides regular academic curriculum.
- To expose the students to market driven learning ecosystems.

Context:

In present scenario, acquiring additional skills or having the knowledge of state-of-the art technology is the essential part of learning for everyone. The number of online learning opportunities, including learning management systems and massively open online courses, has increased dramatically over time. As per the need of new education policy (NEP), online courses should replace some traditional physical courses in near future and allow students to learn from Internationally recognized online platform. Students need to be prepared to learn on the fly thanks to the development of Information and communication technology. Anyone who shows interest in the subject, regardless of age, location, or other considerations, can benefit from these courses and modules because they are not targeted at any specific audience.

Practice:

Believing the fact, college has started providing the learning facilities, in the form of Spoken Tutorial of IIT Mumbai, to the students to acquire software knowledge which

is available online. Also, to make it more productive, we have added this activity in the college timetable and received satisfactory results.

Every undergraduate student of second year and final year has to register for one course in the semester for which they visit the ICT Centre of the college in during the allotted schedule. They learn the online course by watching videos available online at spoken tutorial portal through their login id. Faculty members are entrusted this responsibility as observer to make this effective.

Evidence of Success:

During the session 2021-22, total 271 students including 185 girls have completed the allotted course along with their regular studies.

Problems Encountered:

Most of our students lives in rural areas and frequently have the problem of power cut and internet connectivity, data pack which brings the limitation to spare their off timings for more online courses which they could do at home. The learning experience is completely different for students when they switch from traditional classroom training with a face-to-face instructor to computer-based instruction in a virtual classroom. They struggle to adjust to the online learning environment (specially language) due to their reluctance to change, whereas it takes some time for them to get used to course and computer-based learning techniques. Traditional-minded students struggle to adjust, but they must accept the new learning environment with an open mind and heart.

Resources Required:

To provide the IT facility to our students, college has a dedicated ICT Centre which caters to the need of online learning. This center is having 45 desktop computers having 100 MBPS internet along with A/V aid. Looking at the requirements this need to be strengthened. Students would be better prepared for online classes with more and more exposure of such courses if they can be made aware of the advantages of the course and even talked about them with their classmates.

Best Practice 2

Title of the Practice: Computer Awareness Course

Goal:

- To impart basic computer skills to all the undergraduate first year students of the college.
- To inculcate skills for students in handling the computers related to their academics.
- To make them familiar with the cyber space.

Context:

The current techno savvy world demands the students should be well aware with the computers and related technologies. The digital technologies have made a great

impact in every aspect of life and it is nowadays an essential thing to survive in the market. Considering this requirement and as a large portion of the students of our college are from rural areas, it was observed that most of them have no prior experience of working with personal computers. Our college has consistently strived for its undergraduates for their improvement every way. The Computer Awareness Course was planned and presented from the academic year of 2017-18 for every B.Sc. First year student of the college. The course is planned in such a manner with the goal that it targets mastering the abilities as opposed to simple reasonable information.

Practice:

There are two variations of this course. The one variation is explicitly created for the Computer Science students which comprises of cutting-edge ideas identified with Indian IT Act, Cyber Awareness, Internet innovations, and so on, and the other variation of the course is produced for rest of the first year students that targets giving essential PC abilities like getting acquainted with PC Fundamentals, MS Word, and Internet.

During the first semester, every learner of Biology stream take part in the course and in the subsequent semester, students from Mathematics stream including the Computer Science students are taught this course. Every batch is allotted one session per week during which they are imparted with practical skills related to computer handling and working with them. The emphasis is more on imparting practical knowledge so that the student could perform the required tasks on his own. At the end of semester, they need to appear for a final exam comprising of multiple choice questions. Due to the COVID – 19 pandemic breakouts, the students were taught using pre-recorded video lectures using Moodle LMS. The course was conducted in online mode through the https://mmwcst.gnomio.com/ . The course was started from 27th October, 2021 and thereafter continued till the end of the session. A total of 336 students were enrolled for this course.

Evidence of Success:

It was observed that the students have been profoundly benefited from this course which has helped them in their scholastics and day-to-day activities. The course is assisting them with becoming self-reliant with regards to PC related requirements. For instance, students all alone make their e-tasks, project reports, presentations, articles and papers, etc. for which they used to rely upon others already. Web related abilities

help them for getting to different internet based assets viably. They are now more comfortable and confident at finding information pertaining to their academics and other interests. Furthermore, they are now more aware about how to interact safely in the cyberspace without getting into virtual traps and loopholes, which is the present need.

A total of 336 students were enrolled for the course and amongst them 205 appeared for the examination. The details can be summarized as follows:

Description	CST Course for CS Students	CST Course for Non - CS Students
No. of students enrolled	44	292
No. of students appeared for exam	28	177

Problems encountered and resources required:

- Due to certain lack of facilities at home, few students need more opportunity to get acquainted with PCs and related digital technologies.
- Some students lack electronic devices at their place as they are from rural background. This has limited their ability to practise at their will during the e-learning sessions.
- A commonly encountered difficulty amongst learners is to recall the technological terms.
- Difficult to concentrate on the feeble students by giving them the additional window as they lack required facilities to rehearse at their home.

Regards

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