



**A REPORT OF THE FACULTY DEVELOPMENT PROGRAM
ON
DESIGN AND DEVELOPMENT OF MOOCS**

Oct 6th -10th 2025

Organized by: Administrative development center
in collaboration with
Centre for professional development

ABOUT M.S.RUAS

M. S. Ramaiah University of Applied Sciences (MSRUAS) – located in Bengaluru, is a leading private university under the Ramaiah Group. It offers over 130 programmes across 13 faculties, combining academic excellence with practical, industry-oriented learning.

The university's vision is to be a premier, student-centric institution in Asia that emphasizes applied research, innovation, and ethical professionalism. MSRUAS focuses on creating and disseminating knowledge through teaching, research, and industry collaboration while promoting entrepreneurship, leadership, and societal impact.

ABOUT CPD

The Centre for Professional Development is led by the Dean- Dr H S Srivatsa and it aims to upskill and empower the university's academic community – including faculty, administrators, technical and non-teaching staff.

It promotes continuous learning and leadership to build a future-ready academic ecosystem by equipping educators and staff with the capabilities to thrive in a digital, global and rapidly changing higher education environment.

The banner features logos for Ramaiah University of Applied Sciences, AIU, Institution's Innovation Council, and the University of India. The main title is 'FDP - DESIGN AND DEVELOPMENT OF MOOCs'. It lists resource persons Dr. P. Malliga and Dr. S. Renukadevi, organized by AIU - M. S. Ramaiah University of Applied Sciences Academic and Administrative Development Centre in collaboration with the Centre for Professional Development. The inauguration is by Prof. Kuldeep Kumar Raina. The dates are 06.10.2025 to 10.10.2025, from 9:30am to 5pm, at the FMC Computer Lab, G Floor, M. S. Ramaiah University of Applied Sciences.

RAMAIAH UNIVERSITY OF APPLIED SCIENCES

INSTITUTION'S INNOVATION COUNCIL

FDP - DESIGN AND DEVELOPMENT OF MOOCs

Resource Persons

Organized by:
AIU - M. S. Ramaiah University of Applied Sciences Academic and Administrative Development Centre
in collaboration with
CENTRE FOR PROFESSIONAL DEVELOPMENT

Inauguration by Honorable VC of MSRUEAS
Prof Kuldeep Kumar Raina

Dr. P. Malliga
Professor & Head
Dept. of CS & Engineering
(NITTTR), Chennai

Dr.S.Renukadevi
Professor
Dept. Of Education
(NITTTR), Chennai

06.10.2025 to 10.10.2025
9:30am to 5pm

FMC Computer Lab
G Floor, M. S. Ramaiah University of Applied Sciences

Program Description

- A 5 day training program on Design and Development of Massive Online Open Courses was conducted for the faculty of M.S.RUAS under the under the aegis of AIU–Academic and Administrative Development Centre.
- The FDP was delivered by experts from National Institute Technical Teachers Training and Research, Chennai – one of the nine National Coordinators for SWAYAM.

Program Details:

- Dates: 6th – 10th October 2025
- Venue: FMC Block – Computer Lab & MDP Hall – 02

Program Schedule:

Date & Day	Forenoon		Afternoon	
	9.30 a.m. to 12.45 p.m.		01.45 p.m. to 05.00 p.m.	
6.10.2025 Monday	Journey of MOOC	MOOC Framework and Pedagogy	Key Principles of MOOC Design	Features and Functionalities of popular MOOC - Activity
7.10.2025 Tuesday	Educational Video Production	E-Content Development- types and Trends	Typology of videos	Activity – Creating story board
8.10.2025 Wednesday	Learner Centric MOOC Development: Interactive Elements in MOOC	Multimedia and OER Supplementary Resources	Video Production (Activity – Shooting)	
9.10.2025 Thursday	Video Editing Tools	Video Production (Activity – Shooting)	Video Production (Activity – Shooting) / Post Production	
10.10.2025 Friday	Strategies for fostering Learner Engagement: Discussion Forum & P2P Evaluation		Review and Reflection on video	

Resource Persons:

- Dr. S. Renukadevi Professor, Dept. of Education, NITTTR Chennai
- Dr. P. Malliga (Course Coordinator) Professor & Head, Dept. of Computer Science and Engineering, NITTTR Chennai

PURPOSE

To equip faculty members with the knowledge and practical skills needed to conceptualize, design, and deliver high-quality online courses.

OBJECTIVES

01

To understand the principles, pedagogical models, and policy frameworks relevant to MOOCs in higher and technical education.

02

To design MOOC structures, learning objectives, and assessments aligned with Outcome Based Education (OBE) and NEP-2020 guidelines.

03

To develop multimedia-rich e-content using appropriate digital tools and technologies for online learning.

04

To create engaging and interactive MOOCs and know the step by step publishing of MOOCs on national and international platforms.

INAUGURATION

The 5 day offline Faculty development program was inaugurated at the MDP hall in Faculty of Management and Commerce.

It was inaugurated on Monday, the 6th October at 9:00AM

The Inauguration was graced by :

- Honorable V.C. - Prof K K Raina
- Dean of CPD - Prof H S Srivatsa
- Director of CPD - Mr. Jyothi Shankar G
- Dean of FMC- Dr. Sharath Kumar
- Dr. S. Renukadevi Resource person from , NITTTR Chennai
- Dr. P. Malliga Resource person from NITTTR Chennai



The inauguration was hosted by the Centre for Professional development. It commenced with Ramaiah anthem, and the dean of CPD Dr. H S Srivatsa, led the ceremony and greeted the dignitaries, guests and participants with pleasant words of welcome.

This was followed by the digital launch of the FDP by our Honorable. V.C. Prof K K Raina. He then inspired the gathering and expressed his joy and pride regarding the teachers being on a continuous mode of learning and growing.

The first day was dedicated to establishing a strong foundational understanding of Massive Open Online Courses (MOOCs), their pedagogical structure, and the tools used for their creation.

- A comprehensive overview, history and evolution of the Massive Open Online Course (MOOC) model was provided.
- The need for MOOCs was highlighted, including:
 - The demand for scalable learning
 - The promotion of lifelong learning
 - The democratization of education
- A distinction was made between:
 - xMOOCs – viewed as content-focused and structured
 - cMOOCs – seen as network-based and connectivist
- Open Educational Resources (OER) were introduced.
- SWAYAM, India's national MOOC platform, was presented in the context of the global MOOC movement.

The afternoon session transitioned from theory to practice, focusing on the structural design of a MOOC and its implementation within a Learning Management System (LMS). The facilitator introduced the widely adopted "Four Quadrants" approach, a pedagogical framework for organizing online course content to create a holistic learning experience.

- Following this, a detailed, hands-on demonstration of the Canvas LMS was provided.
- The facilitator walked the participants through creating a new course shell, structuring modules, and populating them with content corresponding to each of the four quadrants.
- The demonstration covered practical skills such as uploading videos, embedding documents, creating quizzes, and setting up discussion forums

The second day of the program shifted focus to the practical aspects of content development, detailing the process of structuring a course and producing high-quality video lectures.

- The morning session was dedicated to the "Course Builder," -a systematic approach to planning and organizing the MOOC curriculum.
- The facilitator outlined the essential steps involved in this process, emphasizing its function as a blueprint for the entire course.
- The steps included defining clear learning objectives, creating a detailed module-wise structure, storyboarding the content for each lesson, designing appropriate assessment tools, and mapping all materials back to the four-quadrant model.
- This structured approach ensures a logical flow and a cohesive learning experience for the student.

The afternoon session provided an in-depth look at the three critical stages of video production, a core component of MOOCs.

- Pre-production: This planning phase was highlighted as the most crucial. It involves scripting the content, developing storyboards, preparing presentation slides or graphics, and ensuring all necessary equipment (camera, microphone, lighting) is ready.
- Production: This is the actual recording phase. The discussion covered best practices for achieving clear audio and good lighting, as well as tips for delivering content in an engaging manner.
- Post-production: This final stage involves editing the raw footage. The facilitator explained how to trim videos, add text overlays and graphics, balance audio levels, and export the final video in a web-friendly format.

Day 3 offered a deep, practical dive into the digital tools that empower MOOC creators and the strategies used to make content more engaging.

- The morning session provided a comprehensive survey of the software ecosystem essential for modern e-learning development. The facilitator systematically introduced and demonstrated various tools, categorized by their function, to give participants a clear understanding of their specific roles in the content creation workflow.
 1. Video Creation and Editing
 2. Audio Editing
 3. Authoring Tools

The afternoon session was dedicated to an innovative and highly engaging pedagogical technique: gamifying educational videos. The training was designed to shift the faculty's perspective from viewing video as a passive medium to an active learning tool.

The facilitator explained that gamification involves applying game-design elements to non-game contexts to boost motivation and knowledge retention. Several practical methods were demonstrated

- Interactive Knowledge Checks
- Branching Scenarios
- Reward Systems

By the end of Day 3, participants had a robust understanding of the key software for content production and were armed with creative strategies to transform standard video lectures into compelling, interactive learning experiences.

The day was dedicated entirely to practical application and hands-on experience, allowing participants to directly implement the video production concepts discussed on previous days

- The session on this day elevated the training to a professional production level.
- A video capture session was organized with a professional videographer in a studio setup complete with a green screen.
- Each participant had the opportunity to record a short educational segment. This provided the participants with invaluable experience in presenting on camera, working with professional lighting, and understanding the nuances of a studio environment.

The session also stressed an intensive, hands-on workshop focused on OBS Studio.

Moving beyond the previous day's demonstration, each faculty member worked on a dedicated system to configure the software.

Guided by the facilitator, they learned to create scenes, add multiple sources (including webcam, screen capture, and images), manage audio inputs, and perform live recordings.

The day successfully bridged the gap between theory and practice, building the technical confidence and practical skills of the faculty in video content creation

The final day focussed on post-production, real-world practitioner insights, and a conclusive look at the impact of MOOCs.

- This practical session allowed participants to complete the video production lifecycle they had started on the previous day
- Essential post-production tasks were performed under the guidance of the instructors
- The session culminated in participants exporting their first fully edited, professional-looking educational video, providing a tangible sense of accomplishment and a completed project to take away.

The afternoon began with an invaluable experience-sharing session featuring two seasoned MOOC creators,

- Dr. Girish Shabareeshan from M.S.RMC
and
- Dr. Nageswara Guptha. from FET

They provided practical advice, discussed the challenges they faced, and offered insights into pedagogical strategies that work best in an online environment.

Following this, Dr. Christy Bobby, the university's NPTEL coordinator, delivered an insightful presentation on the usage statistics and impact of available MOOCs on the national platform. By sharing data on enrolment, completion rates, and learner demographics, Dr. Bobby contextualized the week's training, highlighting the immense reach and importance of the work the faculty were now equipped to do

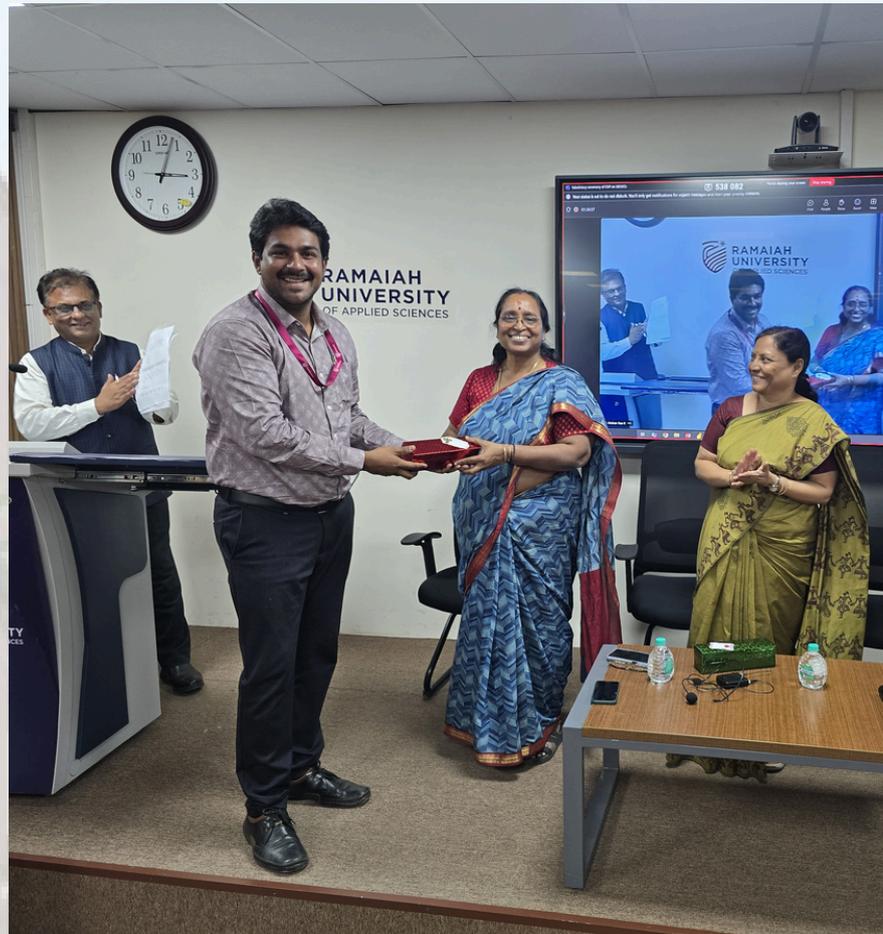
The program successfully equipped the faculty with a comprehensive, 360-degree understanding of MOOC design and development, from initial pedagogical theory to final video production and delivery.

VALEDICTORY PROGRAM

The valedictory program marked the end of the 5 day long FDP that equipped the faculty with a comprehensive, 360-degree understanding of MOOC design and development, from initial pedagogical theory to final video production and delivery.

The Valedictory was graced by :

- **Dean of Faculty of Dental Sciences– Dr. Kavitha Prasad**
- **Dr. S. Renukadevi Resource person from , NITTTR Chennai**
- **Dr. P. Malliga Resource person from NITTTR Chennai**
- **Director of IQAC –
Dr. Mumtaj**
- **Dean of CPD –
Prof H S Srivatsa**
- **Director of CPD –
Mr. Jyothi Shankar G**



The Resource persons and guests were presented with a token of gratitude for their time and support.

The participants shared their experiences and feedback on the new learning that had further empowered them to reach to learners across the nation and world.

THE PARTICIPANTS



A total of forty-eight faculty members from M. S. Ramaiah University of Applied Sciences successfully completed the training programme.