

# MIZORAM UNIVERSITY

MIZORAM: AIZAWL- 796 009

## Botany Department

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No. BOT/CBCS/MOOC/2017-18

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### Minutes of Meeting of Deans of All Schools & CBCS Committee held on 1<sup>st</sup> August, 2017 in Dean's Conference Hall, School of Life Sciences, Mizoram University

#### 1. Approval of MOOC courses on offer on SWAYAM portal of MHRD

The committee has approved the following upcoming MOOC courses available on SWAYAM portal. The students can opt course only from the approved list.

(Annex. I. List of approved MOOC courses for Registration by the Students.)

#### 2. Regulations Governing the MOOC Programme

- i) During entire 2-years PG programme, a student can opt MOOC courses on offer on SWAYAM not exceeding equivalent to 10 Credits.
- ii) Course opted by the student should belong to Course Category 'Postgraduate'.
- iii) A course on SWAYAM platform can be enrolled by the students after the approval of Prof. In-Charge of Digital Learning Monitoring Cell of the University.
- iv) If student has enrolled for approved MOOC courses, she/he has participated in the programme and has been issued Valid Certificate (participation and credit certificate) from the Course Coordinator of Host Institution, and then the acquired credits shall be added to Credits acquired under the CBCS.
- v) Credits obtained from SWAYAM shall be additional to existing 88 Credits under the CBCS.
- vi) The Credits obtained from SWAYAM shall be transformed in to Grade Points. The grade Points (credit x 9.0) obtained from MOOC will be added to total grade points of candidate obtained under CBCS.
- vii) If grades are not awarded by the Course Coordinator, the MZU will award grade to the course through the Committee headed by the Dean of respective school.
- viii) Normally, Grade A++, equivalent to grade value 9.0 will be awarded.
- ix) The MOOC grade points shall be considered for the computation of SGPA/CGPA of the candidate.
- x) If, result of the MOOC course is not available 30 days before the commencement of semester examination, the MOOC credits and grade points will be added to SGPA of next immediate semester.
- xi) MOOC courses shall not be linked with any semester course structure.
- xii) The progression of student from one semester to next will be governed by the existing CBCS (PG) Regulations.

xiii) For ranking and such other purposes, the Grade Points/Credits obtained from MOOC shall not be considered.

### **3. Implementation of Online Education through SWYAM and other platforms.**

Unless facilities are not available, it may not be possible to implement the programme. The students can learn online study material generally after finishing the class room teaching. The facility shall be available during 5.00 to 11.00 PM, so student can participate in the Video-tutorial etc. In this regard the committee has suggested developing following facility in campus:

- i) The existing facility (PC, high speed internet connection, audio-visual equipments, power back-up) in Library and ITC Center may be upgraded.
- ii) The Library and ITC shall remain open till 11.00 PM and on holidays.
- iii) A common Visual Class Room with a capacity of 50 students can be created within the campus to supplement the existing facility.

### **4. Preparation of MOOC Courses by MZU faculty**

The committee discussed on the requirement of course development according to Guidelines for Developing Online Courses (1<sup>st</sup> June, 2017) for SWAYAM given by MHRD, Govt. of India. A 75% of total duration of each production should be case-studies, scenarios, animation, analogies, individual or group activities, graphics, live experiments etc. Direct lecture focused on the teacher can be less than 15% of total duration.

In view of above, the committee approved and recommended the development of “MOOC Creation Studio”, in leadership of Department of Mass Communication and Journalism, MZU, with following equipments/accessories:

- i) Cameras: three 1/3” type; full HD CMOS sensors; 1920x1080/ 50i; HD recording > 50 Mbps. Camera should have suitable Tripod.
- ii) Non-Linear editing
  - a) Editing software : Adobe Creative Cloud for Teams
  - b) Hardware:  
Windows 10 Prof. 64 bit; 1 TB 7200 RPM SATA 1st Hard Drive; 500 GB 2<sup>nd</sup> Hard drive; 32 GB 2 CPU RAM
  - c) Video Capture card
  - d) Effects : FxPlug support, Real-time software-based audio normalization;
  - e) Character generator software
- iii) Interactive 27” multi touch display & pen; Resolution >5000 lpi; Resolution 2560 x 1440
- iv) Interactive touch screen panel with required computer, pen and software  
LCD Panel : > 50 inches wide screen; 1920 x 1080
- v) Laptop touch screen > 15”
- vi) Vision Mixer/ Switcher for connecting camera, Interactive panel and Tablet
- vii) Audio Mixer: 8 channels with min 6 mic/ line input
- viii) Microphones
- ix) Active speaker (2 Way)
- x) Studio Cool Lights
- xi) Power back up (UPS)

### **Requirements of Professionals for production**

Committee recommended hiring production team experienced in preparing Programmes for educational purposes for short-term who can be paid by the Course Coordinator:

- i) Director
- ii) Instructional designer
- iii) Production assistant
- iv) Camera persons
- v) Multimedia technicians and Editors

#### **5. Setting up of a “Digital Learning Monitoring Cell”**

Committee recommended having a Digital Learning Monitoring Cell headed by a Professor In-charge with following responsibilities:

- i) Popularize the digital content available on SWAYAM by printing posters, WhatsApp messages, Face book post and Twitter accounts of the University.
- ii) Review of uses of digital resources.
- iii) Monitoring of students for use of SWAYAM.
- iv) Keeping the record of MOOC on offer during the semester.
- v) Collection of Certificates from the students uploading on SWAYAM
- vi) Transformation of Credits to Grade Points
- vii) Monitoring of production of courses by the faculty
- viii) Suggestion to improve utilization of digital resources in the campus

#### **6. SWAYAM Prabha DTH channel**

Committee recommended to buy DD free dish and configure channels centrally and latter to install in many class rooms. Orientation session for all teachers may be arranged, so that they see and use these channels while teaching their courses.

#### **7. Implementation**

The committee resolved to implement MOOC course credit transfer from the current semester i.e. August, 2017.

The above recommendations will be forwarded to Academic Council for discussion and approval.

**(S.K. MEHTA)**

**Co-Ordinator CBCS**

#### **Copy to:**

- i) The Vice Chancellor, Mizoram University for approval and considering an agenda item of Academic council.
- ii) The Registrar, MZU, for kind information.
- iii) The Controller of Examination for information.
- iv) The Deans of All Schools.
- v) All members of CBCS Committee (PG).
- vi) System Administrator, ITC, Center, for uploading on website of MZU.

LIST OF MOOC ON SWAYAM PORTAL OF MHRD

**Engineering and Science**

S. No.	Course Title	Institute	Starting and closing	Credit (Yes/No)
1.	Forest Biometry	IIT, Kanpur	21.08.2017-13.10.2017	Not announced
2.	Satellite Communication	IIT, Kharagpur	21.08.2017-13.10.2017	Non-credit
3.	Pericyclic Reactions and Organic Photochemistry	IIT, Madras	21.08.2017-13.10.2017	Non-credit
4.	Distributed Systems	IIT, Patna	21.08.2017-13.10.2017	Non-credit
5.	Phase Diagrams in Material Science and Engineering	IIT, Madras	1.07.2017-08.09.2018	Non-credit
6.	Experimental Stress Analysis	IIT, Madras	01.07.2017-7.09.2018	Non-credit
7.	Introduction to Process Modeling in Membrane Separation Process	IIT, Madras	1.07.2018-7.09.2018	Non-credit
8.	Sustainable River Basin Management	IIT, Madras	1.07.2018-7.09.2018	Non-credit
9.	BioMEMS and Microfluidics	IIT, Madras	1.07.2018-7.09.2018	Non-credit
10.	Modern Construction Materials	IIT, Madras	1.07.2018-7.09.2018	Non-Credit
11.	Design and Simulation of DC-DC Converters Using Open Source Tools	IIT, Madras	1.07.2018-7.09.2018	Non-Credit
12.	Estimation of Wireless Communication MIMO (or) OFDM Cellular Sen	IIT, Madras	1.07.2018-7.09.2018	Non -Credit
13.	Conduction and Convection Heat Transfer	IIT, Madras	1.07.2018-8.09.2018	Non-Credit
14.	Error Control Coding : An Introduction to Convolutional Codes	IIT, Madras	1.07.2018-7.09.2018	Non-Credit
15.	Artificial Intelligence: Search Methods for Problem Solving	IIT, Madras	7.07.2018-8.09.2018	Non-Credit
16.	Mass Spectrometry Based Proteomics	IIT, Madras	1.07.2018-7.09.2018	Non-Credit
17.	Protein and Gel-Based Proteomics	IIT, Madras	1.07.2018-7.09.2018	Non- Credit

**Humanities**

S.	Course Title	Institute	Starting and	Credit (Yes/No)
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No.			closing	
1.	Indian Philosophy: An Introduction	Shri Lalbahadur Shastri Rashtriya Sanskrit Vidyapeeth	1.08.2017-31.12.2017	04
2.	Vedic Language and Literature	SLSRSV	1.08.2017-31.12.2017	Non-credit
3.	Poetics and Aesthetics	SLSRSV	1.08.2017-31.12.2017	04
4.	Introduction to Public Administration	Kurukshetra University	7.08.2017-28.10.2017	04

### Mathematics

S. No.	Course Title	Institute	Starting and closing	Credit (Yes/No)
1.	Partial Differential Equations (PDE) for Engineering: Solution by Separation	IIT, Madras	1.07.2018-7.09.2018	Non-credit
2.	Probability Methods in Civil Engineering	IIT, Madras	1.07.2018-8.09.2018	Non-Credit

### Psychology

S. No.	Course Title	Institute	Starting and closing	Credit (Yes/No)
1.	Clinical Psychology	Delhi University	07.08.2017-19.11.2017	04

### Mass Communication

S. No.	Course Title	Institute	Starting and closing	Credit (Yes/No)
1.	Introduction to Audio-Visual Media	Jamia Millia Islamia, Delhi	10.08.2017-30.11.2017	04

### Management

S. No.	Course Title	Institute	Starting and closing	Credit (Yes/No)
1.	Management Accounting for Decision Making	IIM, Bangalore	5.08.2017-31.12.2017	02
2.	Introduction to Marketing Essentials	IIM, Bangalore	5.09.2017-31.12.2017	02
3.	Customer Relationship Management	IIM, Bangalore	5.09.2017-31.12.2017	02
4.	Introduction to Corporate Finance	IIM, Bangalore	5.11.2017-10.03.2018	02
5.	Introduction to Strategic	IIM, Bangalore	5.12.2017-10.03.2018	02

	Management			
6.	Strategy and Sustainable Enterprise	IIM, Bangalore	5.01.2018.10.036.2018	02
7.	Organizational Design: Creating Competitive Advantage	IIM, Bangalore	5.02.2018-7.07.2018	02

The above listed courses will be placed in Academic Council for Approval and Implementation. Students may register for the required number of courses on SWAYAM portal. After completion of course, students may be required to submit the course completion certificate from the Respective Institution.

(S. K. MEHTA)  
CBCS- Co-Ordinator