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Online Education Policy (OEP) for University of Hyderabad

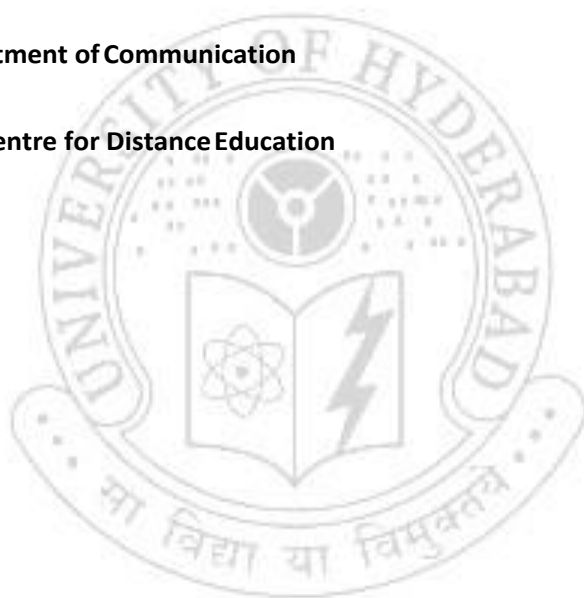


MOOCs Committee, University of Hyderabad

22/9/2016

MOOCs Committee Members

- **Prof. J. Prabhakar Rao, Chairman, MOOCs Committee, CALTS, School of Humanities.**
- **Prof. B. Raja Shekhar, Dean, School of Management Studies**
- **Prof. R. Siva Prasad, Department of Anthropology**
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- **Prof. S. Raja Gopal, Department of Plant Sciences**
- **Dr. Vasuki Belavadi, Department of Communication**
- **Prof. S. Jeelani, Director, Centre for Distance Education**



Title: E-CONTENT Policy for University of Hyderabad

1. Preamble

The University of Hyderabad (UoH) was established by the parliament Act in 1974. It is one of the major higher education institutions in India which is largely devoted to postgraduate studies and integrated Studies. The university offers uni-disciplinary and inter-disciplinary courses across various fields' knowledge such as Humanities, Social Sciences and Sciences. It offers postgraduate diplomas and short term courses by distance mode. The study in India Program which is a unique program of the university is highly popular in number of foreign countries. The UGC Centre for Human Resources Development (UGC-HRC) regularly provides teacher training programs in different areas of knowledge. Besides, the faculty of the university is actively engaged in high quality research with more than 500 ongoing National and International projects. The faculty has been honored with prestigious National and International awards for their contribution in pedagogy and research. A large number of reputed Institutions find their home on our campus and the university has close academic links with them. In terms of infrastructure facility, the entire campus is connected on 1 Gbps National Knowledge Network (NKN) connectivity, Wi-Fi enabled and this facilitates net- working, vital for sustaining academic activity.

The university has decided to adopt OEP for diversifying pedagogical activity for disseminating knowledge through enhanced technology of teaching and learning. This will enable to effectively improve access, enhanced quality and potentially lower the cost of institutional resources.

2. Massive Open Online Courses (MOOCs) Policy of Government of India

Most e-Content initiatives in India were aimed at increasing the quantum of e-Content in Higher Education. In order to drastically increase the enrolment of students at all levels of education, the Government of India has come up with several initiatives such as e-Patashala, UGC, Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM) Programme of MHRD, Guidelines for development and implementation of MOOCs, MHRD, UGC Gazette notification published on 19th July, 2016 on Credit Framework for Online Learning Courses through SWAYAM, etc.

3. Background of developing OEP at University of Hyderabad

The Centre for Distance Education and Virtual Learning (CDVL) has a distinction of offering non-regular courses (the courses that are not being offered in the university curriculum) in distance mode. It is presently planning to offer online courses also. A number of teachers of the university are participating in e- Patashala programme of UGC. The university has recently set up Department of Education and Education Technology. The interdisciplinary India-EU E-QUAL Project where the university is one of the partners is aimed at developing online courses in Environment, Natural Resources and Sustainable Development; Cultural Studies; Human Ecology; and Critical Thinking. Teachers from different disciplines of the university are engaged in developing and designing online courses under the project. Similarly, teachers have also submitted more than 80 proposals to MHRD to develop online courses in different disciplines. The University library will soon become part of National Depository Library (NDL).

4. Promoting Online Courses at UoH

4.1 Vision

- To use enhanced Information and Communication Technology (ICT) in pedagogy in order to have open access for massive outreach, to provide high quality teaching, and effective learning.

4.2 Mission

- To offer some of the regular courses of the university online.
- To design skill-based and entrepreneurship-oriented online courses and offer them through CDVL.
- To offer online courses for Study in India Programme (SIP) students.
- To make available online, the courses of UGC-HRDC.
- To promote National and International Collaboration for developing online courses.
- To make use of funding opportunities provided by different public and private institutions for developing and implementing online courses.
- To develop capacities of UoH teachers to design online courses.
- To increase awareness among student community about the utility of online courses.
- To develop infrastructural facilities for effective implementation of online courses.
- To bring relevant Ordinances, Rules, Regulations, etc., for effective promotion and implementation of online courses.

5. Role of MOOCs Committee

The MOOCs Committee constituted (Vide Ref. NO.UH/R&D/MOOCs Committee/2016/262 dated 26-07-2016) will implement the objectives mentioned in the letter until an Advisory Board of e-learning Centre is put in place.

6. Definitions

6.1 Open Educational Resources are defined as teaching, learning and research materials in any medium, digital or otherwise, that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions. Thus, E-Contents are the educational contents that are freely shared among the educators, learners, researchers and the masses under the open licensing. These materials are shared under creative commons or GNU license that enumerates on how the contents shall be used adapted and shared.

6.2 Principle Investigator (PI) or Subject Matter Expert (SME): is a faculty member of the University who proposes and develops an online course.

6.3 Content Developers: Any person engaged in the development of teaching and learning materials used by the University.

6.4 Copyrights: refer to laws that regulate the use of the work of a creator, such as an artist or author. This includes copying, distributing, altering and displaying creative, literary and other types of work.

6.5 Open License: A license that specifies what can and cannot be done with a work (whether sound, text, image or multimedia). It grants permissions and states restrictions. Broadly speaking, an open license is one which grants permission to access, re-use and redistribute a work with few or no restrictions. Creative Commons has six different types of open licenses.

6.6 Creative common License: It is a copyright license that enables free distribution of copyrighted work. This license helps to share, use, reuse, redistribute, and build upon a work (derived work) that have been created by the author. CC provides flexibility to the creator as well as the user as it is free from the concerns of copyrights infringement, as long as users abide by the conditions as specified under the license. (Annexure- 1)

6.7 Regulator e-Content: is presently MOOCS Committee of University of Hyderabad for ensuring high quality e-Content. After the establishment of e-learning Centre in the university, the Advisory Board

will be entrusted to be the Regulator of **e-Content**.

- 6.8 Content Manager(s):** is/are person(s) authorized by University of Hyderabad and later Advisory Board (reference 5) for uploading and managing the content of E-Content on a digital platform on a consistent ongoing basis.
- 6.9 Content Editor(s):** is/are person(s) authorized by MOOCS Committee/Advisory Board (reference 5) and are subject experts in a particular domain of knowledge for editing the content of E-Content on a digital platform on a consistent ongoing basis.
- 6.10 Language Editor:** is/are person(s) authorized by MOOCS Committee/Advisory Board (reference 5) for editing of the language of the content of E-CONTENT on a digital platform on a consistent ongoing basis.
- 6.11 Translators:** is/are person(s) authorized by MOOCS Committee /Advisory Board (reference 5) of the University for translating the E-CONTENT in a desired language on a digital platform on an ongoing basis.
- 6.12 Transcription writer:** is/are person(s) recommended by MOOCS Committee /Advisory Board (reference 5) with the approval of Vice Chancellor for Transcription.
- 6.13 Legal Expert:** is/are person(s) authorized by MOOCS Committee/Advisory Board (reference 5) for looking into the legal issues related to the content before uploading and managing the content of E-CONTENT on a digital platform on a consistent ongoing basis. S/he/they would be responsible for ensuring compliance of all dimensions related to cyber laws.
- 6.14 Format Designer(s):** is/are person(s) authorized by MOOCS Committee /Advisory Board (reference 5) for format editing and ensuring aesthetic quality of content to be uploaded on a digital platform. Format designers are normally software experts.
- 6.15 E-Learning Centre:** is a Centre for promoting, implementing online courses designed by the teachers of the University, providing training to the teachers on developing e-Content by using enhanced technology of teaching and learning and operating, maintaining E-labs, virtual classroom, video conferencing room etc. A detailed budget of the Centre is appended to this document.
- 6.15.1 Advisory Board of E Learning Centre:** consists of a teacher from each school who will be recommended by the Dean of the school. It will also consist of co-opted members namely Director, CDVL, In-charge, CNF, Director SIP and Director UGC-HRD and two external members. The tenure of the board will be for three years. The board will be approved by the Vice Chancellor of the University. The present MOOCs committee can be the first advisory board of E-learning by adding above mentioned members with the approval of the Vice-Chancellor. All the proposals of online courses will be submitted directly to the advisory board for its consideration and the same will be placed in the Academic Council for its approval. The board will meet annually to discuss and approve administrative, academic and financial matters. It shall also meet regularly to discuss and recommend to Academic Council proposals for online courses submitted by the teachers.
- 6.15.2 Chairman of Advisory Board:** is Vice Chancellor of the University.
- 6.15.3 Director of E-Learning Centre:** is Head of the Centre who will be appointed/nominated by the Vice Chancellor of the University. The tenure of the Director will be for three years. He will chair Advisory Board meetings and report to the Vice Chancellor. The Director will also coordinate the entire activity with University units such as Schools and Centers through the members of the Advisory Board.
- 6.15.4 Administrative Manager:** is/are person(s) recommended by MOOCS Committee/Advisory Board (reference 5) with the approval of Vice Chancellor of the University for Management of all administrative, financial and other activities of the office.
- 6.15.5 IT Manager:** is/are person(s) recommended by MOOCS Committee/Advisory Board (reference 5) with the approval of Vice Chancellor of the University for coordinating with content developer(s) and managing entire team of IT. She/he Manages the MM Lab and IT Lab systems as well as to tend to the MOOCs hosting servers/ hosting services.

- 6.15.6 **Web Developer:** is/are person(s) recommended by MOOCS Committee/Advisory Board (reference 5) with the approval of Vice Chancellor of the University for Development and maintenance of E-CONTENT repository.
- 6.15.7 **Animator/Multimedia Professional:** is/are person(s) recommended by MOOCS Committee/Advisory Board (reference 5) with the approval of Vice Chancellor of the University for designing of 2D & 3D animations.
- 6.15.8 **Video Editor:** is/are person(s) recommended by MOOCS Committee/Advisory Board (reference 5) with the approval of Vice Chancellor of the University for Video editing of recorded materials.
- 6.15.9 **Cameraman:** is/are person(s) recommended by MOOCS Committee Advisory Board (reference 5) with the approval of Vice Chancellor of the University for Operation of camera and lecture recording.
- 6.15.10 **Network Engineer:** is/are person(s) recommended by MOOCS Committee/Advisory Board (reference 5) with the approval of Vice Chancellor of the University for Establishment and maintenance of network and hardware in E-Learning Centre.
- 6.15.11 **Office Assistant:** is/are person(s) recommended by MOOCS Committee/Advisory Board (reference 5) with the approval of Vice Chancellor of the University for assisting staff.
- 6.15.12 **Data Entry Operator:** Needed to input the textual content of the courses.
- 6.15.13 **Lab Assistant:** is/are person(s) recommended by MOOCS Committee/Advisory Board (reference 5) with the approval of Vice Chancellor of the University for taking care of E-learning lab, virtual class rooms, video conferencing room etc.
- 6.15.14 **Instructional Designer:** A person with knowledge of MOOCs and experience with eLearning course design. The instructional designer has teaching experience and knowledge of pedagogy. The instructional designer can provide feedback and review of the courses and e- Contents.
- 6.15.15 **Legal Advisor/ Consultant:** is a professional who provides expert advice in a legal area such as Intellectual property rights, copyrights, licensing etc.
- 6.15.16 **Learning Management System:** A learning management system (LMS) is a software application or Web-based technology used to plan, implement, and assess a specific learning process. Typically, a learning management system provides an instructor with a way to create and deliver content, monitor student participation, and assess student performance.
- 6.15.17 **Information Technology Lab:** The Lab with sophisticated facilities for web application development like LMSs, repositories etc.
- 6.15.18 **Multi-Media Lab:** is a place for integration of Texts, graphics, animation, audio, video etc. It will facilitate in enhancing the quality of OERs.

7. Integrating and implementing online courses

The online courses may be divided into week wise sections as per the course plan. Each week of the course will include a lesson with a single topic or themed topics with specified learning outcomes. A 1-4 credit course will be covered in 4 to 12 weeks duration including assessment component. A 3 credit course should be for 40 hours to 90 hours for a 6 credit course. The University will follow MOOCs guidelines of HRD for structure, e-Content development etc. of these courses.

7.1 Academic Programs and Projects

Teachers of the University will be encouraged to develop online courses alongside graduate and Master's programmes (if any). Specialized courses (electives) for PG students can also be offered online.

7.2 SIP and UGC Human Resource Development Centre

Courses for SIP can be offered by any teacher of the University. HRDC can also offer online courses. A preliminary market survey may be conducted to see what kind of courses can be developed, especially for college teachers.

7.3 Centre for Distance and Virtual Learning (CDVL)

Innovative online courses can be offered by CDVL.

Virtual classrooms are integral to online education.

8. Online Courses Programs

8.1 Developing online materials for in-house courses for University Students

- (a) Elective courses within the discipline may be developed.
- (b) Elective courses as interdisciplinary courses for the University may be offered.
- (c) Specific courses for research programs may also be developed – for instance, in cases where there is a shortage of faculty to offer real-time classes to research scholars.

8.2 Developing online courses for external consumption

- a) Joint courses with other institutions and subject specialists are possible.
- b) Courses offered on SWAYAM platform etc.
- c) These could be revenue-generating courses.

8.3 Developing online courses for CDVL

- a) Exclusive or Joint courses with other institutions and subject specialists are possible.
- b) These could be revenue-generating courses.

9. **Participation of Teachers:** The university teacher(s) will be encouraged to develop online courses. Such teacher(s) shall be provided with suitable incentives—both academic and financial.

10. Institutional Mechanism for proposing online courses

The University will follow MHRD and UGC Guidelines for the course development, assessment, evaluation, certification and credit transfer.

The proposals for online courses will be submitted to the MOOCs committee/Advisory Board.

Academic council of the university shall approve the courses offered by the university.

Each School should nominate one teacher to monitor online educational programs including courses in the school. The teacher will be a member of the Advisory Board representing the school. Any proposal of online courses from the school should come through the Dean of School and the same will be presented before the MOOCs Committee/ Advisory board by the faculty and the member of the school.

Three types of courses may be developed and offered by the University:

1. Regular online courses for the university students

Course Development: Some of the regularly offered courses in the university can be made available online ref no 8.1 (a, b, c). The course(s) shall be submitted to the MOOCs/ Advisory board as per the Policy.

Assessment, Evaluation: The assessment and evaluation of these courses will be done as per approved university rules for such courses.

Certification: As these courses are part of the curriculum, no separate certificate is required.

Credit Transfer: As per University rules.

2. Courses that will be developed and offered through CDVL

Course Development: The online courses will be developed and offered as per CDVL Guidelines. The proposals for these courses will be submitted to the MOOCs Committee/ Advisory Board and they will be finalized in consultation with CDVL.

Assessment, Evaluation: As per CDVL Guidelines

Certification: As per CDVL Guidelines

Credit Transfer: As per CDVL Guidelines

3. **Courses that will be developed and offered under SWAYAM and other programs:** The faculty can offer online courses for SWAYAM. These courses will be developed, assessed, evaluated as per MOOCs Guidelines of MHRD and UGC. The university will follow mutually agreed guidelines for other programs.

11. Quality Assurance and Review System

1. The MOOCs committee will draft a set of guidelines for all MOOCs courses.
2. UoH will monitor learning resources developed at various stages. To this end it proposes a MOOCs Quality Control Sub-committee:
 - a. University MOOCs Committee member (as ex-officio member),
 - b. IQAC Director,
 - c. Head of the Dept. from which the MOOCs course is proposed,
 - d. One other member from the Dept. or School to be decided by the MOOCs committee and the Head of Dept./Dean,
 - e. Two external experts nominated by the MOOCs committee and Head of Dept.
3. Stages of Review:
 - (i) Template Review: All MOOCs proposals will be first examined by the University MOOCs committee to ensure that they fit into the template and requirements.
 - (ii) Proposal Review: The MOOCs Committee will seek expert reviews from the specific discipline, both from within the University and externally before the proposal is cleared for development. Reviewers: One Internal expert and one external expert.
 - (iii) Developed Content Review: Once the course content is developed there will be another review of the entire material. Reviewers: Only external expert.

12. Licensing:

While the *University* supports free and open access to all educational resources and will make them freely available on E-CONTENT Repository through Creative Commons Attribution all contents it owns or co-owns with the following exceptions:

The University may make exceptions to the sharing of intellectual property it owns on a case by case basis with detailed reasons for limiting the free access to such materials.

Contractual agreements may be entered into between and among parties on course delivery and revenue sharing.

Intellectual property owned by the University that the latter considers as commercially sensitive may also be restricted.

Open licensing allows IP owners to modify the copyright on the intellectual property for augmenting openness. However, the most popular and well-known open license is the Creative Commons license (CC).

Mode of Online Education	Copyright	License
Centre for Distance and Virtual Learning (CDVL)	University of Hyderabad	As per the suggestion of Legal Advisor
Regular Courses of the University	University of Hyderabad	
Collaborative Courses (SWAYAM, other programs etc.)	As per MoU	As per MoU
Open Access (External)	University of Hyderabad	CC -BY- SA

ANNEXURE-1

Creative Commons licensing does not change the copyright ownership; it rather allows for affordances and sets stipulations for end- users based on the following license conditions:

CC-BY

This license lets others distribute, remix, tweak, and build upon your work, even commercially, as long as they credit you for the original creation. This is the most accommodating of licenses offered and recommended for maximum dissemination and use of licensed materials.

CC BY-ND

This license allows for redistribution, commercial and non-commercial, as long as it is passed along unchanged and in whole, with credit to you.

CC BY-NC

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CC BY-NC-SA

This license lets others remix, tweak, and build upon your work non-commercially, as long as they credit you and license their new creations under the identical terms.

Six specific types of CC licenses are available at <http://creativecommons.org/licenses/>

All materials developed by it and having exclusive rights shall be released on the university E-CONTENT Repository site under *Creative Commons Attribution- Non Commercial-Share Alike 4.0 International License*.

The materials like University/Schools blog contents, Lecture notes, PowerPoint presentations, acts & statute and ordinance of the University, etc. shall be release under *Creative Commons Attribution- -Share Alike 4.0 International License*.

For derivatives and reproductions of other CC licensed materials, the University shall follow the respective CC provisions and the licenses therein.

While sharing the materials of the University in appropriate licenses, the derived work is not permitted to use University logo for differentiation from the original work.

13. Liability

All e-Content materials shared at the University e-Content Repository to the world at large will carry a disclaimer indicating that the material is for educational purposes only and that the university absolves itself of any practical misuse of the e-Content materials or their content. E-Content materials authored and published by faculty and staff of the university and others does not necessarily reflect the opinion of the university.

Learning materials published under CC license should include the following information in the credit page:

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Learning materials not published under CC license will only include © <Year>, University of Hyderabad

14. Institutional Infrastructure

The institutional infrastructure is needed for developing; hosting and delivery of the e-Content Personnel are also needed for the development, service and maintenance of the infrastructure and activities. The e-Content developed will be called as UoH E-Content Repository. The overall premises will be called as e-learning Centre housed with suitable floor space allowing for all activities. Adequate floor space is to be worked out by the MOOCs committee.

14.1 Production Facility

The e-Content videos would be produced in a studio. Equipment and other details of the Studio will be on the lines of the state of the art production facilities. Editing of the Video would be done in a Multi-media lab. The MM Lab shall have suitable editing etc. tools and software. Two virtual classrooms having complete video conferencing facility will be part of the e-Learning Centre. Each virtual classroom will have the suitable network connectivity and video conferencing equipment for streaming of content and instructor interaction with studio/virtual classroom audience and online audience. A minimum of 20 seats would be the capacity of each virtual classroom. The minimum classroom sizes will be as per AICTE norms. The Studio MM Lab and IT lab all would be closely located with faculty staff rooms. IT Lab will enable the fusion of the other instructional content such as textual, quiz etc. into the MOOCs Software System. The IT lab would facilitate content development and would be equipped with state of the art workstations and software for this purpose.

14.2 Online Repository:

An online repository will be built up around the software system. Virtual hosting services with Commercial service providers with suitable budgets shall also be explored. The hosting of the learning materials in other Cloud Hosting services would provide uninterrupted global access to the E-Content created here. Suitable platforms for creating the content will be explored. All content will be created in a production facility containing studio, Multimedia lab etc.

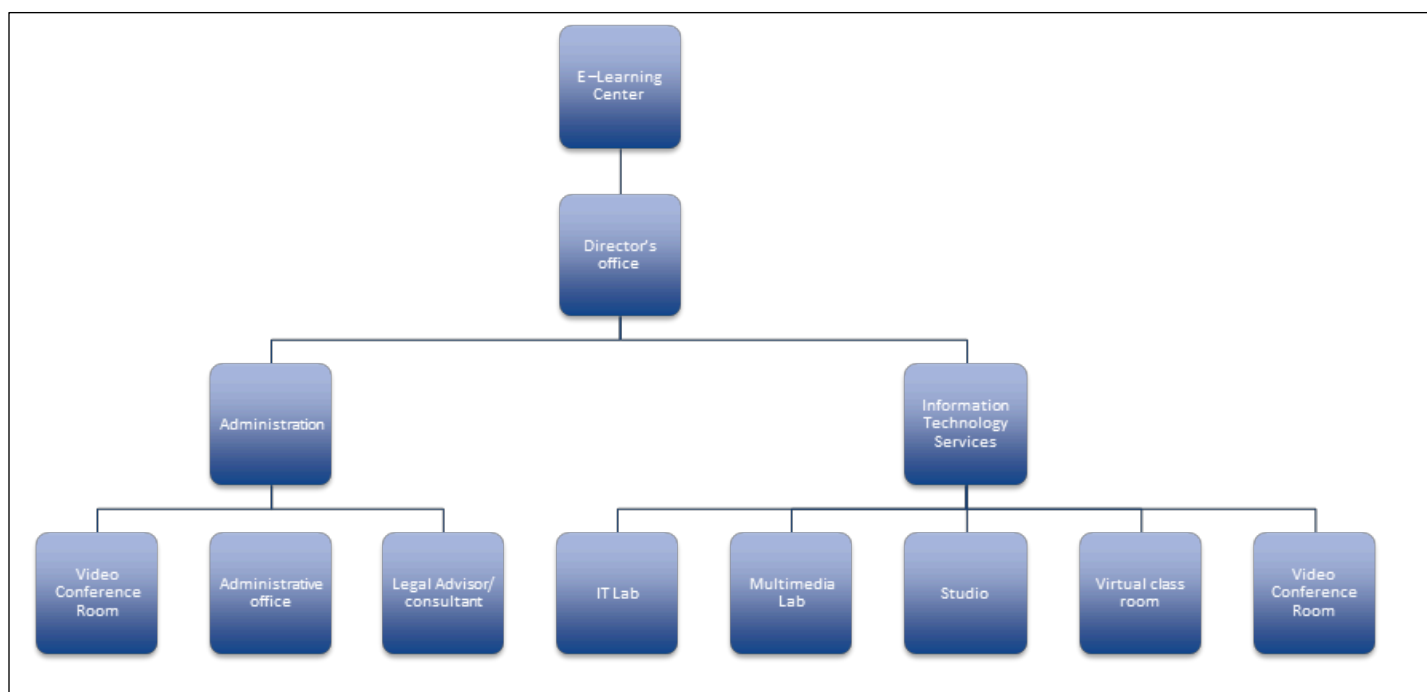
Delivery of courses in blended mode can be done through virtual classroom. Content can be developed in the IT and multimedia lab where various digital formats like audio, video, graphics, animation, text, etc., can be incorporated into the courses.

Learning Management System (LMS): Open and flexible LMS will be chosen based upon the content deployment scenario. Teachers and learners will be able to use the interactive LMS for better course delivery and reception.

14.3 e- Learning Centre Structure

- Multimedia Lab
- Studio
- Two virtual classrooms
- Video Conferencing facility
- I.T lab with LMS (Learning Management System) Facility
- Additional infrastructure as required

Organizational Structure



14.4 e- Learning Centre Human Resource

- Director (as a Head of the Centre)
- Administrative Manager
- I.T Manager
- Legal Advisor/ Consultant
- Software Developer
- Multimedia Professional
- Cameraman
- Attendant
- Premises

Online Repository: An online repository will be built up around the software system. The learning materials will be created in a production facility containing studio, Multimedia lab etc. Delivery of courses in blended mode can be done through virtual classroom and hosted on an appropriate server.

15. Training Faculty, content developers and students

Capacity building programs will be conducted regularly to train and update teachers and content developers of the university in content development by using enhanced technology of teaching and learning. It is also necessary to organize awareness programs among the students about e-Content and their use.

16. Collaborations for developing e-Content

16.1 Academic: An online course can be offered

1. By one or more teachers from the University.
2. In collaboration with other institutions/universities of higher education (both National and International)
3. In collaboration with Government organizations/ Industry/Civil Society/ Other organizations.

16.2. Funding

16.2.1. Funding for online courses can be obtained from

1. Central and State Governments
2. National and International Funding bodies
3. Industry, civil society and other such organizations

16.2.1. Financing: The default financing model shall be as per MHRD guidelines. However, in the case of funding from other bodies (national/international) the collaborating body's guidelines may be followed.

16.2.2. Sharing of revenue on online courses will be on a case-to-case basis on mutually agreed terms.

E-Learning Center Equipment Budget

Furniture	Amount (Rs)
5PC work station in Administration office	25000*5=1,25,000/-
10PC work station in IT Lab	25000*10=2,50,000/-
8PC workstation in MM Lab	25000*5=1,25,000/-
35 back rest chair with flexible side handles moving chairs	18,000*35=6,30,000/-
Director's table	35,000/-
Director's storage	35,000/-
Office storage (collapsible)	40,000/-
IT storage (collapsible)	40,000/-
Studio storage	40,000/-
Systems	
80 TB storage server	2,00,000/-
Office PC (13 no's)	50,000*13 = 6,50,000/-
2 MacBook	2,00,000*2 = 4,00,000/-
6 I MAC	1,50,000*6= 9,00,000/-
3 AMD A10, Windows Workstation	50,000*3 = 1,50,000/-
Printer & Scanners	
Photocopier with network Printing (2 no's)	95,000*2= 1,90,000/-
3 in 1 color printer (2 no's)	25,000*2 = 50,000/-
Drum Scanner	75,000/-
Display	
LED Screen (6no.s) 55inch Samsung	80,000*6= 4,80,000/-
LED Bulb Projector & Screen (Wi-Fi enabled)	1,50,000/-
Document cameras (4 no's)	20,000*4 = 80,000/-
Digitizing Tabs (Wacom) (9no.s)	8,000*9 = 72,000/-
Final Cut pro (4 licenses)	25,000*4= 1,00,000/-
Animation Software (4 licenses)	25,000*4= 1,00,000/-(renewed annually)
Articulate Storyline 2 (2 licenses)	62,000* 2= 1,24,000/-(renewed annually)
MS office (23 licenses)	1,15,000/- (renewed annually)
External Hard disks (10)	8,000*10= 80,000/-
Green Screen kit for Virtual Studio	1,50,000/-
VPS Hosting	2,00,000/-
DSLR & Accessories (3nos)	70,000 *3= 2,10,000/-
Video Camera & Accessories (3 no's)	1,50,000*3= 4,50,000/-
Grand Total	62,46,000/-

Name of Office	No. of People working / Engaged	Size of Office (in sft)
Director's room	1	Standard (180)
Administrative office	5-7	250
IT Lab	6-8	300
Multimedia Lab	4-6	
Studio (3 camera, virtual studio set up with AV mixing)	8	600
Virtual Classrooms (2 no.s)	50-100	700*2 = 1400
Video Conference Room 1	10-15	180
Video Conference Room 2	100	800
Storage		180
Cafeteria		600
Multipurpose Hall		700
Gross		4390

Acknowledgement

The MOOCS committee of University of Hyderabad thanks the following for their valuable inputs in the preparation of the Policy.

- Prof. Sanjaya Mishra, Education Specialist – eLearning, Commonwealth of Learning
- Prof. Jose P D, Professor, Corporate Strategy and Policy, IIM Bangalore
- Prof. Bala Chandra, School of Advanced Study, University of London
- Dr. Manas Ranjan Panigrahi, Programme Officer, Education, CEMCA

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- The Gazette of India dated July 11, 2016
- OER Policy of Netaji Subhas Open University (NSOU), Kolkata
- OER Policy of Odisha State Open University, Budharaja, Sambalpur
- OER Policy of Uttarakhand Open University, Haldwani
- Institutional OER Policy Template, CEMCA
- OER Policy of Central University of Himachal Pradesh

