

  
**UNIVERSITY OF MYSORE**

Estd. 1916

**VishwavidyanilayaKaryasoudha**  
**Crawford Hall, Mysuru- 570 005**  
**Dated: 20.06.2017**

**No.AC.2(S)/486/16-17**

**NOTIFICATION**

**Sub:** Introduction of New course in M.Sc. in Cyber Security from the academic year 2017-18.

**Ref:** 1. Decision of the Faculty of Science & Technology Meeting held on 03.03.2017.

2. Decision of the Academic Council meeting held on 30.03.2017.

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The Board of Studies in Information Technology and Multimedia (PG) which met on 28.12.2016 has resolved to introduce a new course in M.Sc. in Cyber security under FCBCS regulations pattern from the academic year 2017-18. Further, the Board also resolved to approve Open Elective in Design thinking and Cyber Security awareness for the above course from the academic year 2017-18.

The Faculty of Science and Technology and the Academic Council at their Meetings held on 03.03.2017 and 30.03.2017 respectively have also approved the above said proposal and the same is notified subject to the approval from the Government with regard to introduction of new course (including Open Elective in Design thinking and Cyber Security awareness for the above course) from the academic year 2017-18.

The regulations, Scheme of Examination and the syllabus including Open Elective for Design thinking and Cyber Security awareness of the new M.Sc. course in Cyber security is annexed herewith.

It may be downloaded from the University Website i.e., [www.uni-mysore.ac.in](http://www.uni-mysore.ac.in)

Draft approved by the Registrar

**Sd/-**  
**Deputy Registrar (Academic)**

**To:**

1. The Principal Secretary to the Government, Higher Education Department (Universities), Dr.B.R.AmbedkarVeedhi, M.S.Building, Bangalore-1.
2. The Executive Director, Karnataka State Higher Education Council, Bangalore-1.
3. The Registrar (Evaluation), University of Mysore, Mysore.
4. The Director, Centre for Information, Science and Technology, Manasagangotri, Mysore.
5. The Dean, Faculty of Science & Technology, DOS in Physics, MGM.
6. The Chairperson, BOS in Information Technology and Multimedia, DOS in Information Technology and Multimedia, Manasagangotri, Mysore.
7. The Chairman, DOS in Information Technology and Multimedia, Manasagangotri, Mysore.
8. The Director, College Development Council, Moulya bhavan, MGM.
9. The Co-ordinator, Information Technology and Multimedia, DOS in Information Technology and Multimedia, MGM.
10. The Deputy/Assistant Registrar/Superintendent, AB and EB, UOM, Mysore.
11. The P.A. to the Vice-Chancellor/Registrar/Registrar (Evaluation), UOM, Mysore.
12. Office file.

## **Unit I**

Defining Digital Attacks, Script Kiddies, Network, Web and Mobile based attacks and study

## **Unit II**

Introduction to Cyber Security

Cyber Security – objectives, roles and principles. Differentiate Information Security and Cyber Security.

## **Unit III**

Measuring Cyber Security

Cyber Security Metrics, data collection and processing. Security Metrics for ISP, Information Security Life cycle management and Tools.

## **Unit IV**

Introducing Vulnerabilities

Analyzing Vulnerability data and processing techniques. Discovering the techniques of Exploitable Vulnerability.

## **Unit V**

### **Incident Responses and Operational Security Management**

Incident categories, Network Incident management, recovery management, risk management, secure software development and forensics.

### **References:**

1. Allan Friedman – Cyber Security and Cyber War
2. Cyber Crimes and Fraud Management