

# SHIVAJI UNIVERSITY, KOLHAPUR



Draft Structure and Syllabus

for

Proposed Interdisciplinary Certificate Course

Certificate Course in Science Communication  
60 Hour - Four Credits

Course Code CD-SC

To be introduced in 2012-2013

(Subject to the modifications made from time to time)

# Certificate Course in Science Communication

Interdisciplinary and Multidisciplinary 60 Hour Four Credit Certificate Course

To be introduced in 2011-2012

Course Duration: 6 Months

Course Code CD-SC

## Relevance of the course

To introduce the students to principles of communication, method of science, and how to communicate science

- To understand the scientific developments in India and the media's role in disseminating them.
- To know different sources of scientific information.
- To know employment opportunities in science communication.

## Course Structure:

- The course is of 60-hour duration and would spread over one academic term.
- One credit of 15 hours can be considered as training program of one week duration. Participants can take admission for any of the credits as per their requirement and they are eligible for participation certificate.
- However those participants who complete four credits are eligible for theory examination it consists of 100 marks.
- Theory examination at the end of academic year would carry maximum 50 marks.
- Internal assessment carries maximum 50 marks that include assignment, project and visits.

## Admission:

1. Admission is open for any graduate of any discipline.
2. It can be simultaneously pursued along with the other post-graduate course.
3. At least 75% attendance is required to enable to student to appear for theory examination.
4. Intake for the course will be 25.

**Fee structure- Per credit 500/-, Admission form 10/-**

Examination Fee :-100 (To be paid along with the examination form)

### **Examination and assessment**

- The examination of the course will be conducted by the University at the end of academic year. Examination fee of Rs. 100 fee as mentioned above will be charged for the same.
- The Examination for this course shall be by a theory paper, seminar, project, fieldwork and assignments.
- The student has to submit the assignments/ seminar papers before the date of the theory examination.

### **Grading**

<b>Aggregate of Total Marks</b>	<b>Letter Grade</b>	<b>Class</b>
70-100	O	Distinction
60-69	A	First Class
55-59	B+	Higher Second Class
50-54	B	Second Class
40-49	C	Pass
39 or less	D	Fail

# **Certificate Course in Science Communication**

To be introduced in 2012-2013

Course Code: CD-SC, Course Duration: 6 Months

Contact Hours : 60

Maximum Marks : 200

Credits : 04

Internal : 100

Examination Duration : 3 hrs

External : 100

## **I. SCIENCE AND COMMUNICATION**

(12 Hours)

Science and technology: definition - Science for a science communicator - Professional scientific communication - History of science and technology - History of science in India's wisdom starting from the Indus Valley civilization, and traditional wisdom the world over - Forms of scientific knowledge - Emergence of modern science - Eminent scientists: their life and achievements – Recent Nobel laureates on science - History of science journalism in India, Gender, Science and Technology

## **II. ROLE OF SCIENCE COMMUNICATION**

(12Hours)

Need for science communication - Importance and use of science communication - Public Understanding of Science (PUS) - Science popularization: programmes, organizations, individuals - Method of science - Scientific temper - Scientificity - Sources of scientific information – books, scientific reports, scientific journals, magazines, feature syndicates, leaflets, tabloids, wall magazines, speeches, seminars, press releases, databases, encyclopedias on science, etc - Comparative study of science sections and supplements carried in Indian / foreign newspapers and science magazines

## **III. SCIENCE AND TECHNOLOGY POLICY AND SET-UP**

(12 Hours)

Science and technology policy statements - Technology statements - Policy resolutions - Science and technology set-up in India - Science Policy Resolution, 1958 - The Indian Patent Act, 1970 - intellectual property rights (IPR) – Science Communication organizations: NCSTC, NCSM, NISCAIR, Vigyan Prasad.

#### **IV. PROSPECTS, AWARDS AND TRAINING**

(12 Hours)

Organizations promoting science - Employment opportunities – CSIR laboratories, other scientific institutions, media organizations, NGOs, Business Process Outsourcing, Knowledge Process Outsourcing - Awards and honours for excellence in science writing / popularization - Science communication education in India and abroad - Freelance science writers - Bhatnagar award – Profiles of Kalinga Award winners and their winning formulae.

#### **V. TOOLS AND TECHNIQUES OF SCIENCE COMMUNICATION**

Communication: definition, Written, Verbal Communication, digital media, science journalism, Drama, Street play, Advertisements, writing research articles, reporting, using folk lores, traditional means of science communications, scientific tools.

Role of Science Communication in Agriculture, Health, Nutrition Science, Environmental Hazards, Weather forecast, Climate Change

#### **Evaluation:**

**Theory – 100 Marks**

**Project/ Training/ Seminar and Viva – 100 Marks**

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**200 Marks**

**Readings:** (Additional readings will be recommended by the course teacher. )

1. Jane Gregory and Steve Miller, Science in Public: Communication, Culture, and Credibility, Plenum, New York, 1998.
2. James G, Paradis and Muriel L. Zimmerman, The MIT Guide to Science and Engineering Communication. MIT Press, UK, 2002.
3. J.V. Vilanilam, Science Communication and Development in India, Sage, New Delhi, 1993.
4. Science Magazine. <http://www.sciencemag.org>