

# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No.F.9-5/2000-U.3)

## **SCHOOL OF BASIC SCIENCE**

### **Circular**

Date: 02/01/2020

### **Sub: Organising Value added Course: COURSE ON SCIENCE AND TECHNOLOGY POLICY**

With reference to the above mentioned subject, we bring it to your notice that School Of Basic Science, Faculty of Arts & Science, Bharath Institute of Higher Education & Research is organising “**COURSE ON SCIENCE AND TECHNOLOGY POLICY**”. The syllabus and registration form is enclosed below.

The candidates those who are interested to join must fill the registration form and submit to the HOD, on or before 04.01.2020. The Registration form received after the mentioned date shall not be entertained under any circumstances.

**Head of the Department**

**Dean**

Encl: A copy of Syllabus & Registration form

Copy To:

- 1.All HODs
- 2.Office File/ Notice Board

**Bharath Institute of Higher Education & Research****SCHOOL OF BASIC SCIENCE****Course Time Table****Value Added Course: Course on Science and Technology Policy****Course Duration:30 Hrs**

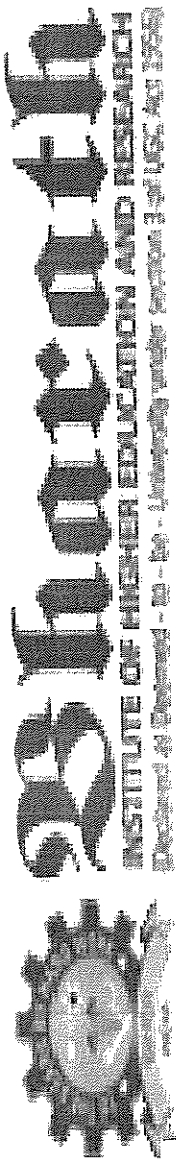
<b>S.No</b>	<b>Date</b>	<b>Time</b>	<b>Hour</b>
1	20/06/01	2.00-3.00p.m	1
2	20/07/01	10.00-11.00p.m	1
3	20/10/01	2.00-3.00p.m	1
4	20/1/2020	10.00-11.00p.m	1
5	21/1/2020	2.00-4.00p.m	2
6	27/1/2020	10.00-11.00p.m	1
7	28/1/2020	2.00-4.00p.m	2
8	29/1/2020	10.00-12.00p.m	2
9	20/03/02	2.00-4.00p.m	1
10	20/04/02	10.00-12.00p.m	2
11	20/10/02	2.00-4.00p.m	2
12	20/11/02	10.00-12.00p.m	2
13	17/2/2020	2.00-4.00p.m	2
14	18/2/2020	10.00-12.00p.m	2
15	19/2/2020	2.00-4.00p.m	2
16	24/2/2020	10.00-12.00p.m	2
17	25/2/2020	10.00-12.00p.m	1
18	20/03/03	2.00-3.00p.m	1
19	20/04/03	10.00-11.00p.m	1
20	20/05/03	2.00-3.00p.m	1

**Bharath Institute of Higher Education & Research**  
**SCHOOL OF BASIC SCIENCE**

**Students Registration List**

**Value Added Course: Course on Science and Technology Policy**

S.NO	REG.NO	NAME OF THE CANDIDATE
1	U19MA007	R.NEELESH RAJ
2	U19MA008	R. SOWMIYA
3	U19MA009	S.GOWSHIYA BEGAM
4	U19MA010	AYENDRILA SENGUPTA
5	U19SC097	ABI P
6	U19SC093	PALANISAMY M
7	U19SC090	KOUSALYA J
8	U19SC089	GOMATHI S
9	U19SC088	MUTHUMARI M
10	U19SC086	NIVETHA S
11	U19SC085	ANANTHA KRISHNA BALAJI B
12	U19SC083	VIJAYAKUMAR P
13	U19SC082	GOPINATH B
14	U19SC080	SATHYA NARAYANAN P
15	U19SC079	ASWIN J
16	U19SC078	ASWIN A
17	U19SC076	SHAMEEM R
18	U19SC075	SANDHAMOORTHY E
19	U19SC074	KARTHIKEYAN J
20	U19SC073	PRIYANKA P
21	U19SC071	YAMUNA N
22	U19SC069	SINDHU R
23	U19SC068	LINGESHWARAN A
24	U19SC067	KAMALI K
25	U19SC066	JAGADEESAN M
26	U19SC065	SADHANA S
27	U19SC064	HAVISH S
28	U19SC063	BHUVANESH M
29	U19SC062	POKADA JEEYAR SAINI KUMARI
30	U19SC061	VISHNU KUMAR P
31	U19SC059	DANIEL S
32	U19SC058	PRATHAP D
33	U19MA004	P. RAMAJAYAM
34	U19MA005	TAMILVENDHAN
35	U19MA006	P.AJAYKUMAR
36	U19VC009	SUREN A
37	U19VC008	JAYAMATHESHWAR R
38	U19VC006	BHARATHRAJ N
39	U19VC005	VASANTH S
40	U19SC113	GANESH N
41	U19SC112	SIVASRITHARAN S
42	U19SC110	GOPI M
43	U19SC109	DAWOOD SUBER T M
44	U19SC108	JABISH E
45	U19SC107	VADIVEL R
46	U19SC106	AJITHKUMAR A
47	U19SC105	SIBIRRAMANI V



83/3, AGARAM MAIN ROAD, THIRUVANCHERRY, CHENNAI - 600 126, TAMIL NADU, INDIA

## **School Of Basic Science**

### *Certificate of Participation*

This is to certify that

**S. NIVETHA**

Has participated in the value added course: Course on Science and Technology Policy, a unique and special programme held at School Of Basic Science, BIHER from 6<sup>th</sup> January to 5<sup>th</sup> March 2020.

*S. J.*

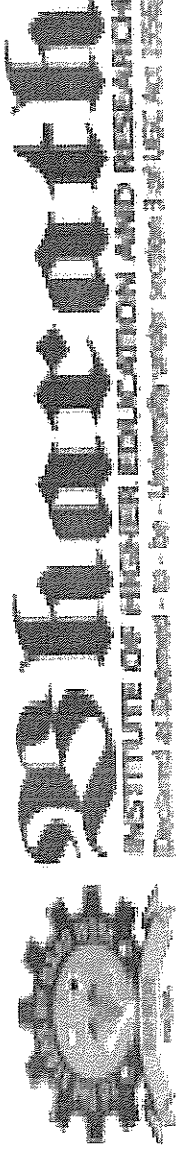
Course Co-ordinator

*Dr. P. Sumathi*

Dr. P. Sumathi  
HOD

*Dr. A. Muthukumaravel*

Dr. A. Muthukumaravel  
Dean



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### Certificate of Participation

This is to certify that

**R. SOWMIYA**

Has participated in the value added course: Course on Science and Technology Policy, a unique and special programme held at School Of Basic Science, BIHER from 6<sup>th</sup> January to 5<sup>th</sup> March 2020.

Course Co-ordinator

Dr. P. Sumathi  
HOD

Dr. A. Muthukumaravel  
Dean



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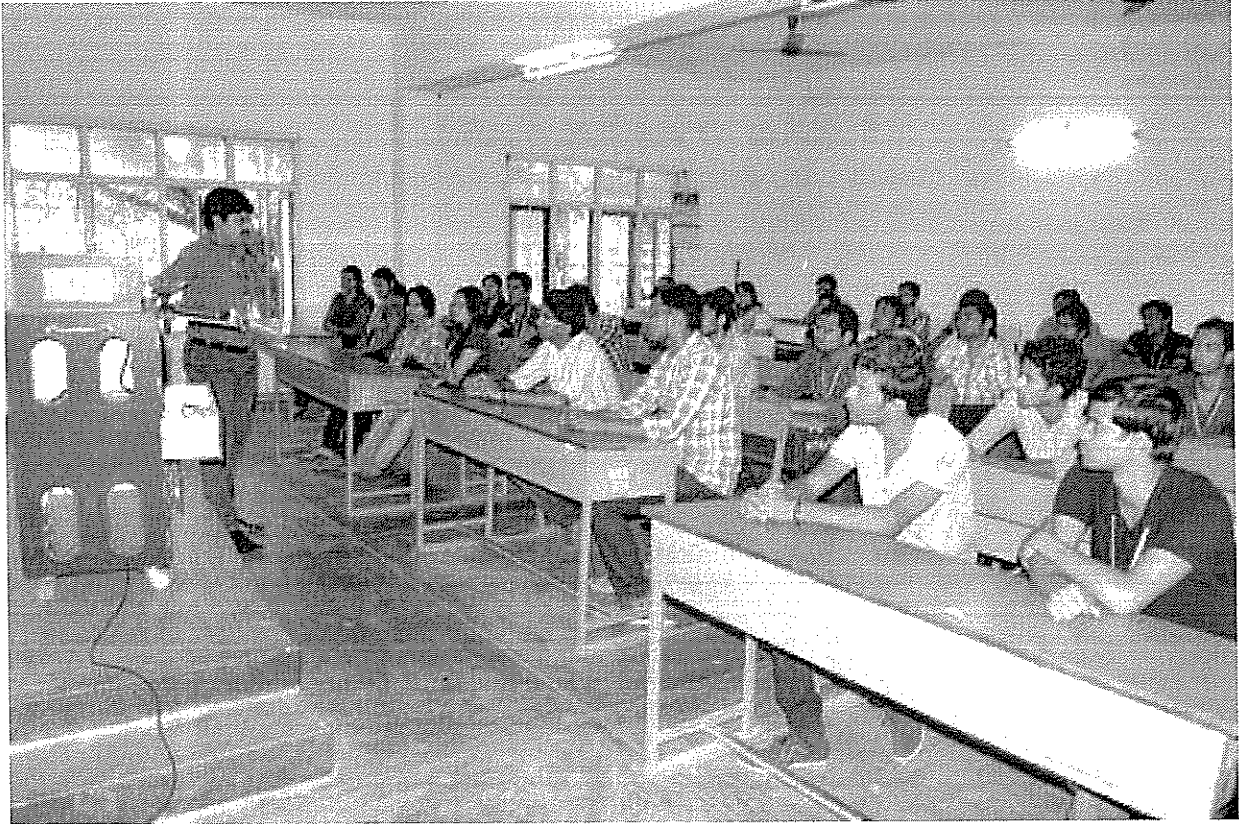
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**SCHOOL OF BASIC SCIENCE**

**Department of Mathematics**

**VAC: Course on Science and Technology Policy**



**Resource Person Details**

Dr. K. Arun  
Asst. Professor,  
Department of Mathematics,  
Hindu College,  
Chennai.

**Bharath Institute of Higher Education & Research**  
**School of Basic Science**  
**Lesson Plan**

**VAC: Course on Science and Technology Policy Course Duration:30 Hrs**

S.No	Date	Topic	Time	Hrs
1	20/06/01	Introduction of Science and Technology Policy and definitions	2-3 p.m	1
2	20/07/01	Innovation policy	a.m	1
3	20/10/01	Importance of Science and Technology Policy	2-3p.m	1
4	20/1/2020	Research and development	a.m	1
5	21/1/2020	Environmental policy	2-4p.m	2
6	27/1/2020	Relation between science and Technology	a.m	1
7	28/1/2020	The contributions of science to technology	2-4p.m	2
8	29/1/2020	Science as a direct source of new technological ideas	10-12p.m	2
9	20/03/02	Science as a source of engineering design tools and techniques	2-4p.m	1
10	20/04/02	Instrumentation, laboratory techniques, and analytical methods	10-12p.m	2
11	20/10/02	The development of human skills, Technology assessment	2-4p.m	2
12	20/11/02	Contribution of technology to science	10-12p.m	2
13	17/2/2020	Technology as a source of new scientific challenges	2-4p.m	2
14	18/2/2020	The positive externalities of innovative activity	10-12p.m	2
15	19/2/2020	Development of Science and Technology	2-4p.m	2
16	24/2/2020	Participatory research; ethics and policy	10-12p.m	2
17	25/2/2020	regional science and technological policy;	a.m	1
18	20/03/03	The multiple dimensions of the research endeavor	2-3p.m	1
19	20/04/03	Department of Science and Technology	p.m	1
20	20/05/03	The role of Science and Technology in National Development	2-3p.m	1



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## SCHOOL OF BASIC SCIENCE

### VALUE ADDED COURSE: COURSE ON SCIENCE AND TECHNOLOGY POLICY

#### SYLLABUS

#### **UNIT-I Introduction of Science and Technology Policy**

Introduction of Science and Technology Policy and Definitions Science and technology policy; innovation policy; public funding of research; research and development; environmental policy

#### **UNIT-II Relation between Science and Technology**

The contributions of science to technology, science as a direct source of new technological ideas, Science as a source of engineering design tools and techniques, Instrumentation, laboratory techniques, and analytical methods, The development of human skills, Technology assessment

#### **UNIT-III Contribution of Technology to Science**

Technology as a source of new scientific challenges, The positive externalities of innovative activity Space Science, Ocean Science

#### **UNIT-IV Development of Science and Technology**

Participatory research; ethics and policy; regional science and technological policy; The multiple dimensions of the research endeavour; Principles for the Development of Science and Technology

#### **UNIT-V Department of Science and Technology**

Mechanism for Funding Research and Development; The role of Science and Technology in National Development The real scope of science and technology policies; The new social and institutional framework.

#### **TEXT BOOK:**

- 1 The Science of Science Policy: A Handbook, Editors Julia Lane, Kaye Husbands Fealing March 2001
- 2 Alit, J.A. et al., 1992, Beyond Spinoff, Military and Commercial Technologies in a Changing World (Harvard Business School Press, Boston, MA), April.
- 3 Bardeen, J., 1957, Crystal imperfections, in J.E. Goldman (editor), The Science and Engineering of Materials (Wiley, New York), Chapter 4, pp. 82-102.

#### **REFERENCE :**

- 1 Brooks, H., 1973, The state of the art: technology assessment as a process, International Social Science Journal 22, (31 (UNESCO, Paris).
- 2 Brooks, H., 1985, Returns on federal investments: the physical sciences, Workshop on The Federal Role In Research and Development (NAS/NAE/IOM), November (available from the NRC Information Office).





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School of Basic Science

Department of Mathematics

Registration Form

Value Added Course

Date: 06/01/2020

Name : R. Neelesh Raj  
Register Number : U19MA007  
Date of Birth : 25/08/2002  
Gender : Male  
Department : Maths  
Pursuing Year : 2019-2022  
Mobile Contact : 7653992015  
Email ID : neel2508@gmail.com  
Course Applied : Course on Science  
and Technology Policy

Signature



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## School of Basic Science

## Department of Mathematics

## Registration Form

## Value Added Course

Date: 06/01/2020

Name : S Nivetha  
Register Number : U19 SA086  
Date of Birth : 19/04/2002  
Gender : Female  
Department : Statistics  
Pursuing Year : 2019-2022  
Mobile Contact : 8293457291  
Email ID : nivitha2002@gmail.com  
Course Applied : Course on Science  
and Technology Policy

Signature



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## School of Basic Science

### Department of Mathematics

### Course Feedback form

### Value Added Course

**Course Title:** COURSE ON SCIENCE AND TECHNOLOGY POLICY **Date:** 05/03/2020

**Name:** R. Neelesh Raj

**Reg. No:** U19MAD07

**Department:** Maths

S.No	Particulars	1	2	3	4	5
(1. Very Unsatisfied 2. Unsatisfied 3. Neutral 4. Satisfied 5. Very Satisfied)						
1.	objectives of the course clear to you				✓	
2.	The course contents met with your expectations				✓	
3.	The lecture sequence was well planned				✓	
4.	The lectures were clear and easy to understand					✓
5.	The teaching aids were effective					✓
6.	The instructors encourage interaction and were helpful				✓	
7.	The level of the course					✓
(1. Very poor 2. Poor 3. Average 4. Good 5. Excellent)						
8.	Overall rating of the course:	1	2	3	4	5
						✓

Please give Suggestion for the improvement of the course:

Signature



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School of Basic Science

Department of Mathematics

Course Feedback form

Value Added Course

Course Title: COURSE ON SCIENCE AND TECHNOLOGY POLICY Date: 05/03/2020

Name: S. Nivetha

Reg. No: U19 SA086

Department: Statistics

S.No	Particulars	1	2	3	4	5
(2. Very Unsatisfied 2. Unsatisfied 3. Neutral 4. Satisfied 5. Very Satisfied )						
1.	objectives of the course clear to you				✓	
2.	The course contents met with your expectations				✓	
3.	The lecture sequence was well planned					✓
4.	The lectures were clear and easy to understand					✓
5.	The teaching aids were effective				✓	
6.	The instructors encourage interaction and were helpful				✓	
7.	The level of the course					✓
(2. Very poor 2. Poor 3. Average 4. Good 5. Excellent)						
8.	Overall rating of the course:	1	2	3	4	5
						✓

Please give Suggestion for the improvement of the course:

Signature