

GOVERNMENT OF INDIA  
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 556**  
TO BE ANSWERED ON 01.12.2021

**PhD SCHEME**

**556 COL. RAJYAVARDHAN RATHORE:**

Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:

- (a) whether the Government proposes to extend the duration of the Visvesvayara PhD Scheme started in 2014 beyond 2023;
- (b) the State-wise details of distribution of funds allocated and institutions associated with the scheme;
- (c) whether the Institutions of National Importance have been covered under the scheme, specially the ones which have been nominated in the last two years and if not, the reasons therefor;
- (d) the details of number of fellows enrolled in the above said scheme as per their area of research;
- (e) whether the Government has granted an extension to the graduating fellows in light of the Covid-19 pandemic in 2020 and if so, the details thereof; and
- (f) whether the Government has taken action towards updating the structure of the above said scheme as per research objectives laid out in the National Education Policy 2020; and if so, the details thereof ?

**ANSWER**

MINISTER OF STATE FOR ELECTRONICS AND INFORMATION TECHNOLOGY (SHRI  
RAJEEV CHANDRASEKHAR)

- (a) There is no such proposal. Phase-II of Visvesvaraya PhD Scheme has been launched on September 17<sup>th</sup>, 2021.
- (b) The details of distribution of funds allocated and institutions associated with the scheme are at Annexure A.
- (c) As per the guidelines of the scheme, all the institutions of national importance are eligible to receive support under the scheme.
- (d) The details of number of fellows enrolled in the Visvesvaraya PhD Scheme as per their area of research are at Annexure B.
- (e) Visvesvaraya PhD scheme is an institutional scheme and is being implemented as per the rules of the participating institutions. The fellowship support under the scheme is provided to the research fellows through participating institutions upto 5 years or their PhD

completion, whichever is earlier. No fellowship extension was granted to the graduating fellows in light of the Covid-19 pandemic in 2020.

- (f) Visvesvaraya PhD scheme was initiated with the objective of enhancing the number of PhDs in Electronics System Design and Manufacturing (ESDM) and IT / IT enabled Services (ITES) sectors. The research areas such as Machine Learning and Artificial Intelligence mentioned under the National Education Policy 2020 are covered in Phase II of Visvesvaraya PhD Scheme.

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## Annexure A

## Visvesvaraya Phd Scheme for Electronics &amp; IT

State wise details of distribution of funds allocated and institutions associated with the scheme			
S.N.	Name of the States/UT	Name of the Institutions	Amount (in Rs. Lakhs)
1	Andhra Pradesh	Andhra University	248.48
2	Arunachal Pradesh	NIT Arunachal Pradesh, Yupia	139.85
		NERIST Nirjuli	129.37
3	Assam	Gauhati University	252.28
		IIIT Guwahati	72.00
		IIT Guwahati	340.75
		NIT Silchar	201.79
		Tezpur University	257.63
4	Bihar	IIT Patna	793.80
		NIT Patna	368.23
5	Chandigarh	Punjab Engg College University of Technology, Chandigarh	170.52
		University Institute of Engineering and Technology, Panjab University	158.71
6	Delhi	Guru Gobind Singh Indraprastha University, Delhi	233.73
		IIT Delhi	1697.69
		Indraprastha Institute of Information Technology, Delhi	803.54
		Jamia Millia Islamia	433.72
		JNU Delhi	54.35
		South Asian University	51.91
7	Goa	Goa University	203.38
		NIT Goa	104.60
8	Gujarat	IIT Gandhinagar	267.75
		Nirma University	135.09
		Sardar Vallabhbhai National Institute of Technology, Surat	145.12
9	Haryana	NIT Kurukshetra	177.36
10	Himachal Pradesh	IIT Mandi	306.09
		NIT Hamirpur	205.23
11	Jammu & Kashmir	University of Kashmir	88.81
		NIT Srinagar	53.73
12	Jharkhand	IIT-Indian School of Mines, Dhanbad	42.46
13	Karnataka	IISc Bangalore	1446.86
		IIIT, Bangalore	449.73
		NIT Karnataka, Surathkal	621.62
14	Kerala	Mahatma Gandhi University, Kerala	53.69
		NIT Calicut	127.62
15	Madhya Pradesh	Devi Ahilya Vishwavidyalaya	61.98
		IIT Indore	673.20

		Indian Institute of Information Technology and Management, Gwalior	1.63
		Indian Institute of Information Technology, Design and Manufacturing, Jabalpur	160.72
		Maulana Azad National Institute of Technology, Bhopal	127.26
16	Maharashtra	Bharati Vidyapeeth University	55.07
		Dr. Babasaheb Ambedkar Marathwada University	39.89
		IIT Bombay	745.81
		Rashtrasant Tukadoji Maharaj Nagpur University	3.25
		Sant Gadge Baba Amravati University, Amravati	3.25
		Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded	93.66
		Shri Ramdeobaba College of Engineering & Management, Nagpur	16.85
		SNDT Women's University	51.47
		Solapur University	98.96
		VNIT Nagpur	924.53
17	Meghalaya	NE Hill University, Shillong	102.51
		NIT Meghalaya	113.30
18	Odisha	IIT Bhubaneswar	22.82
		NIT Rourkela	264.37
19	Puducherry	Pondicherry University	75.09
		NIT Puducherry	53.04
20	Punjab	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar	24.12
		Guru Nanak Dev University, Amritsar	27.26
		IIT Ropar	169.74
		Punjabi University	111.76
		Thapar University	336.02
21	Rajasthan	Central University of Rajasthan	15.77
		IIT Jodhpur	412.16
		MNIT Jaipur	491.57
22	Sikkim	NIT Sikkim	112.20
23	Tamil Nadu	Amrita University	376.21
		Anna University	545.06
		Annamalai University	118.65
		IIT Madras	141.51
		Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram	45.75
		Karunya University, Coimbatore	63.33
		NIT Tiruchirappalli	889.61
		PSG College of Technology, Coimbatore	31.60
		SRM University	73.70
		Vellore Institute of Technology, Tamil Nadu	86.15
24	Telangana	IIT Hyderabad	1199.17
		International Institute of Information Technology Hyderabad	382.19

		NIT Warangal	145.76
		University College of Engineering, Osmania University	153.48
		University of Hyderabad	213.33
25	Tripura	NIT Agartala	60.56
26	Uttar Pradesh	Aligarh Muslim University	233.61
		IIT BHU	145.87
		IIT Kanpur	1018.60
		Indian Institute of Information Technology, Allahabad	23.87
		MLN-NIT Allahabad	505.03
27	Uttarakhand	IIT Roorkee	480.04
28	West Bengal	IEST Shibpur	683.85
		IIT Kharagpur	20.29
		ISI Kolkata	189.87
		Jadavpur University Kolkata	594.44
		NIT Durgapur	896.60
		University of Calcutta	208.53

#### Annexure B

##### Visvesvaraya PhD Scheme for Electronics & IT

S/No.	Research Areas	No. of fellows
1	3D Printing	1
2	5G Communication	29
3	Algorithms	1
4	Analog Electronics	22
5	Artificial Intelligence	94
6	Big Data	67
7	Biotechnology/ Medical Electronics	74
8	Blockchain/ Distributed Computing	6
9	Cloud Computing	57
10	Compiler Design	4
11	Compressed Sensing	1
12	Computer Architecture	12
13	Computer Networking	17
14	Control Systems/ Robotics	21
15	Cryptography	34
16	Cyber Security	50
17	e-Governance	2
18	Electrical Machines and Drives	4
19	Electromagnetic	2
20	Embedded System	4
21	Evolutionary Computation	1
22	Fluid and thermal	1
23	Geospatial System	4
24	Green and Sustainable ICT	2

25	Haptics	1
26	Hardware security	2
27	HCI and ICTD	2
28	Image Processing/ DSP/ Pattern Recognition	134
29	Internet of Things/ Wireless Sensor Network	76
30	IT and Agriculture	1
31	Large Area Electronics	7
32	Machine Learning	67
33	Materials	45
34	Microwave Devices	10
35	Mobile Communication	17
36	Nanoelectronics	36
37	Natural Language Processing	31
38	Optoelectronics	83
39	Packaging	27
40	Power Electronics	64
41	Quantum Computing/ Communication	12
42	Renewable Energy source	17
43	RF/ Wireless Communications	149
44	Robust control of motors	1
45	Scientific Evaluation	2
46	Software Engineering	5
47	Synthesis and Sensor Technology	1
48	Vehicular electronics	6
49	VLSI Design	93