

3.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs) - 706.45

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years (5) - 12

Year	2017-18	2018-19	2019-20	2020-21	2021-22	Total
INR in Lakhs	324.75	30.72	15.53	82.94	252.51	706.45

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years (5) - 12

3.1.3.1: Number of departments having Research projects funded by government and non-government agencies during the last five years - 12

Year	2017-18	2018-19	2019-20	2020-21	2021-22
Number	11	11	10	10	10

Sl.No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned in INR in lakhs	Duration of the project	Name of the Funding Agency	Type (Government/ non-Government)
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2017-18

	Major Projects							
1	DBT Star Status	Dr. Vinay Kumar	Institutional (All Science Departments)	2017-18	282	2017-18	DBT	Government
2	Identification of novel and conserved sodium responsive mi-RNAs and their target genes modulating salinity stress during reproductive phase in rice cultivars	Dr. Vinay Kumar	Biotechnology	2017	10.17	2017-2020	DST SERB	Government
3	Empirical Analysis of Effects of Pre-birth Education on Child development using advanced Statistical Techniques	Dr. Amita Dharmadhikari	Statistics	2015	12.53	2015-18	UGC	Government
	Minor Projects							
4	Elicitation of diosgenin production in Helicteres isora suspension cultures	Dr. Vinay Kumar	Biotechnology	2016	1.2	2016-18	Savitribai Phule Pune University, Pune	Government
5	Synthesis and characterization of pyrazol	Dr. Sushama Katade	Chemistry	2016	0.95	2016-18	Savitribai Phule Pune University, Pune	Government
6	Bisystematics studies of on Braconidae parasitoides on lepidpterian larvae .	Dr.Shakera Inamdar	Zoology	2015	2.8	2015-2018	UGC	Government

7	DBT (Workshop Chemistry)	Dr. Madhuri Kulkarni	Chemistry	2017-18	1.33	2017-18	DBT	Government
8	Science Academies' Refresher Course	Dr. Sushama Katade	Chemistry	2017-18	6.34	2017-18	Science Academies'	Government
9	Science Academies' Lecture Workshop	Dr. Vinay Kumar	Biotechnology	2017-18	1.4	2017-18	Science Academies'	Government
10	Science Academies' Lecture Workshop	Mrs. Vaishali Salunkhe	Electronics	2017-18	0.83	2017-18	Science Academies'	Government
11	Study on digestive and reproductive physiology of Lepidophagous fish, Neotropius Khavalchor, Kulkarni, from Western Ghats, India	Dr. Sanjay Kharat	Zoology	2016-17	Nil	2016-18	UGC	Government
	Synthesis and Characterization of dysprosium doped in Nano Ferrites	Mr. MD. Waghmare	Physics	2016-17	4.7	2016-18	UGC	Government
12	Marathi and Hindi interface of ABCD-Open Source Library Management Software for the DOC BIBLAS	Sangeeta Namdev Dhamdhare	Library	2017	0.5	6 months	UNESCO, USA and BIREME, Antwerp University, Belgium-2017	Government
				Total	324.75			

2018-19

	Major Projects						
1	DBT Star Status	Dr. Vinay Kumar	Institutional (All Science Departments)	2017-18	Nil	2017-18	DBT Government

2	Identification of novel and conserved sodium responsive mi-RNAs and their target genes modulating salinity stress during reproductive phase in rice cultivars	Dr. Vinay Kumar	Biotechnology	2017-18	7	2017-2020	DST SERB	Government
3	Identification and characterization of salt responsive conserved and novel mi-RNAs in soyabean	Dr. Vinay Kumar	Biotechnology	2018-19	18.4	2018-2021	DAE- BRNS	Government
4	Study on digestive and reproductive physiology of Lepidophagous fish, Neotropius Khavalchor, Kulkarni, from Western Ghats, India	Dr. Sanjay Kharat	Zoology	2018-19	Nil	2016-18	UGC	Government
	Minor Project							
5	Elicitation of diosgenin production in Helicteres isora suspension cultures	Dr. Vinay Kumar	Biotechnology	2018-19	1.2	2016-18	BCUD	Government
6	Synthesis and characterization of pyrazoline derivatives.	Dr. Sushama Katade	Chemistry	2018-19	0.55	2016-18	BCUD	Government
7	Synthesis, characterization and magnetic properties of dysprozium substituted in Nickel nanoferrite by SOLGEL autocombustion method	Mr. Mahendra Waghmare	Physics	2018-19	Nil	2016-18	UGC	Government
8	Evaluation report of Genderations Mentoring Program in Pune schools	Dr. Sadhana Natu	Psychology	2018-19	1.3	May 2018 - August 2018	Genderations International	NGO
	DBT Star Minor Projects for Students - Seed Money sanctioned by the College							
9	To develop a prototype of greenhouse for cultivation of strawberry by maintaining the controlled environmental conditions using multiple sensors	Mrs. Pradnya Pathakji and Mr. Deepak Kumbhar (Electronics)	Institutional	2018-19	0.05	2018-19	DBT	Government
10	To develop emergency calling and messaging system using arduino uno and SIM900 GSM module	Dr. Saroj Hole and Mr. Deepak Kumbhar (Electronics)	Institutional	2018-19	0.05	2018-19	DBT	Government

11	Interactions of PGPB and Pleurotus mushroom w.r.t. physiological and biochemical parameters	Dr. Amrita Srivastav (Biotechnology)	Institutional	2018-19	0.05	2018-19	DBT	Government
12	Drug repurposing: repurposing of muscle relaxant drug tricolchicoside as an anticancer agent in leukemia and breast cancer cells	Dr. Amrita Srivastav (Biotechnology)	Institutional	2018-19	0.05	2018-19	DBT	Government
13	Use of protein based and green synthesized nanoparticles in cancer therapy	Dr. Vinay Kumar (Biotechnology)	Institutional	2018-19	0.05	2018-19	DBT	Government
14	Inhibition of multidrug resistant biofilms using Nanoparticles	Dr. Uttara Oak (Biotechnology)	Institutional	2018-19	0.05	2018-19	DBT	Government
15	Isolation and characterization of endophytes from medicinal plants	Dr. Neelima Kulkarni (Microbiology)	Institutional	2018-19	0.05	2018-19	DBT	Government
16	Study of chrysomya rufifacies(diptera) in india	Dr Shakeria Inamdar (Zoology)	Institutional	2018-19	0.05	2018-19	DBT	Government
17	Molecular identification , histological examination of parasites of loaches found around pune	Miss Chandani Verma (Zoology)	Institutional	2018-19	0.05	2018-19	DBT	Government
18	Effect of endoparasites on the cognitive abilities of common spiny loach lepidosteichthys thermalis	Mr Pradeep Kumar (Zoology)	Institutional	2018-19	0.05	2018-19	DBT	Government
19	Study of planarian diversity and karyology	Mrs Trupti Kale (Zoology)	Institutional	2018-19	0.05	2018-19	DBT	Government
20	Effect of herbicide on freshwater spiny loach lepidosteichthys thermalis	Miss Chandani Verma (Zoology)	Institutional	2018-19	0.05	2018-19	DBT	Government
21	Development of biocontrol agent using chitinase producing enzyme against plant pathogen	Mrs Sneha Ogale (Microbiology)	Institutional	2018-19	0.05	2018-19	DBT	Government
22	Histology and scanning electron microscopy of butterfly wings and flight muscles	Mr Pradeep B. Kumar (Zoology)	Institutional	2018-19	0.05	2018-19	DBT	Government
23	Efficacy of herbal disinfectants versus chemical disinfectants against MDR organisms found in hospital environments: a comparative study	Mrs Sneha Ogale (Microbiology)	Institutional	2018-19	0.05	2018-19	DBT	Government
24	Isolation, screening and characterization of penicillium species from spoiled food samples	Mrs Gauri Bhagat (Microbiology)	Institutional	2018-19	0.05	2018-19	DBT	Government

DBT Star Minor Projects for Faculty							
25	To design and implement smart-in-door tuneable lighting system to enhance working efficiency of people in static light environment	Mrs. Pradnya Pathakji and Mr. Deepak Kumbhar (Electronics)	Institutional	2018-19	0.15	2018-19	DBT Government
26	Identifying antimicrobials from marine myxobacteria	Dr. Uttara Oak (Biotechnology)	Institutional	2018-19	0.15	2018-19	DBT Government
27	Deciphering the roles of ureide accumulation and metabolism in feedback-inhibition of N ₂ -fixation under drought stress conditions in pigeonpea	Dr. Amrita Srivastav (Biotechnology)	Institutional	2018-19	0.15	2018-19	DBT Government
28	Synthesis and characterization of Ni-Cr layered double hydroxides	Dr. Mohini Gupte (Chemistry)	Institutional	2018-19	0.12	2018-19	DBT Government
29	A green approach towards the synthesis of amidoalkyl-2-naphthols using different catalysts	Mrs. Revati Nagarkar (Chemistry)	Institutional	2018-19	0.15	2018-19	DBT Government
30	Removal of fluorides from drinking water with effective applications of microbiological approach	Mrs. Ashwini Kulkarni (Microbiology)	Institutional	2018-19	0.15	2018-19	DBT Government
31	Isolation, characterization and evaluation of microbes for their municipal and agricultural wastewater treatment potentials	Dr. Kirti Dahigaokar (Microbiology)	Institutional	2018-19	0.15	2018-19	DBT Government
32	Isolation of pigment producing bacteria with subsequent characterization and applications of extracted pigments	Ms. Yogini Kanade (Microbiology)	Institutional	2018-19	0.15	2018-19	DBT Government
33	Isolation of AM fungi from xerophytes and study of their applicability for cultivation under water stress conditions	Dr. Gauri Phadke (Microbiology)	Institutional	2018-19	0.15	2018-19	DBT Government
34	Synthesis, characterization and antimicrobial activities of novel coumarin-Sciff bases	Dr. Ritu Mamgain (Chemistry)	Institutional	2018-19	0.15	2018-19	DBT Government
				Total	30.72		

2019-20							
Major projects							
1	DBT Star Status	Dr. Vinay Kumar	Institutional (All Science Departments)	2017-18	Nil	2017-2022	DBT Government
2	Identification of novel and conserved sodium responsive mi-RNAs and their target genes modulating salinity stress during reproductive phase in rice cultivars	Dr. Vinay Kumar	Biotechnology	2017-18	6	2017-2020	DST SERB Government
3	Identification and characterization of salt responsive conserved and novel mi-RNAs in soyabean	Dr. Vinay Kumar	Biotechnology	2018-19	7.03	2018-2021	DAE- BRNS Government
4	Holistic teacher training in innovative skills of cooperative learning and e-content development	Dr. Sushama Katade	Chemistry	2019-20	2.5	2019-20	Ministry of human resource development (MHRD) Government
				Total	15.53		

2020-21							
Major Projects							
1	DBT Star Status	Dr. Vinay Kumar	Institutional (All Science Departments)	2017-18	Nil	2017-2022	DBT

2	Identification of novel and conserved sodium-responsive miRNAs and their target genes modulating salinity stress during reproductive phase in rice cultivars	Dr. Vinay Kumar	Biotechnology	2017-18	1.8	2017-20	DST SERB	Government
3	Identification and functional characterization of salt responsive conserved and novel miRNAs in soybean	Dr. Vinay Kumar	Biotechnology	2018-19	6.14	2018-21	DAE- BRNS	Government
4	DST-FIST Programme (Second Cycle)	Dr. Vinay Kumar	Institutional - All science PG departments	2019-20	75	2020-2025	DST	Government
				Total	82.94			

2021-22

1	DBT Star Status	Dr. Vinay Kumar	Institutional (All Science Departments)	2017-18	Nil	2017-2022	DBT	Government
2	DBT BUILDER	Dr. Vinay Kumar	Institutional - Life sciences PG departments	2020-21	250	2020-2025	DBT	Government
3	Identification and functional characterization of salt responsive conserved and novel miRNAs in soybean	Dr. Vinay Kumar	Biotechnology	2018-19	2.51	2018-21	DAE- BRNS	Government
4	DST-FIST Programme (Second Cycle)	Dr. Vinay Kumar	Institutional - All science PG departments	2019-20	Nil	2020-2025	DST	Government
				Total	252.51			