Extract of Research Policy document highlighting research promotion schemes (seed money) for the faculty

4.4 Research Promotion Schemes

To promote research in emerging and high impact areas, the University has undertaken initiatives to identify and nurture research clusters/research groups (RC/RGs), Faculty student Start-up groups (FSSG) and provide funds for Product Design and Development initiatives. The aim is to develop these clusters/groups to a level of competency that makes them further emerge as Centers of Excellence (CoE).

The Following research promotion schemes are initiated since 2015. Every year the call for proposals are sent to all faculty inviting applications from a faculty or group of faculty to the different internal funding schemes of the University. The review committee reviews these proposals and approves the funding. This fund is for one year and faculty or group needs to write fresh proposal for continuation or new proposals. Following are the types of activities which are funded.

- Capacity building projects
- Research Groups and Clusters
- Facility creation for Product design
- Incentive for R & D activities

The following section gives brief details about these activities.

4.4.1 Capacity Building fund

Capacity Building fund is the seed money provided to the individual faculty to initiate the new areas of research and grow the research activity in an area aligned with focus areas of School/Department through Capacity Building Projects.

The objectives of these projects are

- To enhance the research capability of the faculty and research center/cluster/group.
- To provide the experience of carrying out a research project.
- To facilitate the process of applying for funds from external funding agencies.

4.4.2 Research Cluster (RC)

Under the RC proposal a group of faculty get seed money for the focused research work, faculty group can be from the same department or inter-disciplinary in nature. Research Cluster is theme cantered, e.g. energy, material science, ESDM, CVG, data analytics, etc. These centers synergize the efforts and expertise of faculty across the departments and create a platform

towards building higher levels of inter-disciplinary research/development /technology-translation/productivity. The aim is to get recognition and visibility in a chosen theme.

4.4.3 Research Group (RG)

Under the RG proposal a group of faculty get seed money for the focused research work. This is similar to RC, wherein collaborating faculty can be from the same department or across departments. Research Group leads to initiation of research clusters in the collaborating area over a period of time.

4.4.4 Centre of Excellence (CoE)

Under the RG proposal a group of faculty get seed money for the focused research work, which has shown significant outcomes in the last few years. The identification of RCs/RGs will be based upon the needs of the University, talent, passion and the ecosystem, which will sustain to evolve into Centres of Excellence (CoEs). This will help to identify the clusters of competence, which then go through two phases before emerging as CoEs. In Phase-1, RCs define roadmap, orient research and build capacity. In Phase-2, RCs contribute towards publications, funded research and consultancy projects, patents, etc. before elevating to a CoE. The CoEs will collaboratively work with University's innovation and entrepreneurship center (CTiE), and product design and development centers (CIPD).

4.4.5 Product Design and Development Grant (PDDG)

The Product Design and Development Grant (PDDG) is given to a faculty or a group of faculty who involve in product innovation, design and development activity of the University and supports start-ups and industry. These faculty groups bring together the skill set and expertise of multidisciplinary group of researchers from Schools, Departments, RCs/RGs and industry towards technology translation, design and development activity of a product

4.4.6 Faculty student start-up grant (FSSG)

This grant is given to faculty or group of faculties who involve with the start-up and students towards a product development and deployment.

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Creating Value
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Earlier known as
B. V. B. College of Engineering & Technology

Research and Development

Date: 023.09.2021

Recommended and Sanctioned Capacity Building Projects 2021-22

SN	S/D/C	Name	Project Title	Requested Amount in L	Sanctioned Amount in L	Remarks
1.	Civil	Roopa Kuri	Investigation of piezoelectric properties of cement basis nano hybrid composites for structural health monitoring	1.00	1.00	Recommended
2.	SoCSE	P G Sunita Hiremath	Analyzing the severity of the substance use dependence and its relationship to psychological disorders	1.50	1.00	Recommended
3.		Sujata C	Person tracking in multi camera environment	5.00	--*	Sanctioned workstation under CEVI
4.		Uma Devi F M	Respiratory illness detection	4.5	--*	
5.		Shrinivas Desai	Medical imaging annotation	1.5	1.00	Recommended
6.		Jayalaxmi Naragund	Resource management of Mobile/Multi-access Edge Computing (MEC) enabled 5G IoT Networks	3.00	3.00	Recommended
7.	SoECE	Ujwala Patil	Spectral reconstruction using RGB images	--	--	Continued without funding
8.		Suneeta Budihal	Radio resource management in Software defined network for BSG communication	4.5	4.5	Recommended
9.		Shivashankar Huddar	Low actuation voltage RF MEMS switch fabrication & characterization	5	3.00	Recommended
10.		S R Nirmala	Biomedical Signal image processing	3.5	6*	Sanctioned workstation for Signal Image, Audio, Video processing Research Group
11.	SME	Arun Patil	Design & development of bio inspired structures for diverse applications	1.40	1.40	Recommended
12.		Praveenkumar Petkar	Experimental studies on cold forging dies with advanced die materials	4.5	4.00	Recommended
13.		Rajashekhar Savadi	Technology Interventions for Ayush Treatments (TIAT)	6	1.50*	Recommended, workstations are part of PDDG
14.	MCA	P R Patil	Drone development lab	--	--	Continued without funding
15.	Chemistry	Sandeep Kurundawade	Kinetic & mechanistic study of catalyzed redox reactions of the molecules with industrial app	1.75	1.50	Recommended
16.	Physics	Veena Choudapur	Rare earth doped cobalt chromite nano particles for humidity sensing applications	0.7	0.7	Recommended
17.		Varsha Koppal	Non linear optical properties of some heterocyclic molecules	4.2	1.30	Recommended
18.		Sangeeta Kolavekar	Study of optical properties of bismuth phosphate glasses containing some rare earth oxides for optical device applications	4	2.00	Recommended
19.		N R Patil	Design & structural studies of thiophene derivatives as high performance polymeric semiconductors for organic devices & photovoltaic applications	3.5	3.00	Recommended
20.	SAS	Shivaprakash Hiremath	Molecular Expression Profiling of Genes in Normal Oral Mucosa, Oral Precancerous Lesions and Oral Carcinomas for Correlation with Progression	4.7	4.00	Recommended
21.	Maths	Bharati M. Shettar	Fast converging Multi grid numerical schemes to solve EHL problems with Nano fluids as lubricants	2.2	1.40 3*	1 workstation Sanctioned
22.		Sumedha Shinde	Spectral Analysis of Graph	2.2	1.40	
			Total	**64.65**	**44.7**	

*** Computing facility/Workstations/Laptops are sanctioned centrally and managed by info cell. Total amount for computing facility = 9Lakhs**

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