



### Criteria 3.2.1

**List of Extramural funding received for research, Endowment Research Chairs received during the last five years along with the nature of award, the awarding agency and the amount.**

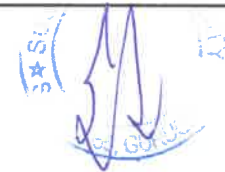
## **Appendix-I**

3.2.1	Research funding received by the institution and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowments, Research Chairs during the last five years (INR in Lakhs) (25)
	3.2.1.1: Total Grants for Research funding received by the institution and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowments, Research Chairs during the last five years (INR in Lakhs)
3.2.2	Number of research projects per teacher funded by government, non-government, industry, corporate houses, international bodies during the last five years (15)
	3.2.2.1: Number of research projects funded by government and non-government agencies during the last five years
	3.2.2.2: Number of full time teachers working in the institution during the last 5 years

Sl. No.	Name of the PI	PI/ Co-PI	Title of the Research Project	Name of the funding agency	Year of award or sanction	Amount in (INR).
1	Kankan Kataria	Tanaya Verma Niraja Adloori Faiyyaz Rashid Khan Vaibhav Sharma Suman devi Surbhi Goyal	Magnesium alloys super sized high pressure die casting for automotive structural components	Abilities India Pistons & Rings Ltd	2020-21	5,059
					2019-20	2,48,495
2	Dr. Dinesh Rai	Vijaya Lakshmi Singh Neha Gupta Bindu Thakral Anand Sharma	Improving supply chain in automotive industry	Aisin Automotive Haryana Pvt Ltd	2022-23	68,75,724
					2022-23	1,75,77,160
					2020-21	34,31,259
					2019-20	58,24,891
3	Dr. Sherry Verma	Garima Bakshi Monisha Sharma Shadab Alam Rajan Bansal Sandeep Gulia	Efficient and secure system based on the software-defined network paradigm for vehicular networks	Aptiv Components India Pvt Ltd	2022-23	4,18,346
					2022-23	38,78,202
					2020-21	10,15,251
					2020-21	4,95,383
					2019-20	37,06,145
4	Dr. Isha Saini	Sangeeta Trehan Indu Prabha Pathak Sagarika Goswami Parshati Dutta Avitesh Nikita savita	Cloud based blockchain integrated with machine learning for value chain management	Ardom Towergen Pvt Ltd	2022-23	15,47,883
					2022-23	10,69,453
					2022-23	13,77,584
					2022-23	1,39,408
					2022-23	25,667
					2022-23	9,49,645
5	Dr. Monika Khurana	Jyoti Mor Meenakshi Dhingra Neetu Jora Suman dahiya Nidhi Chowdhry	AI and IoT based value chain management in telecomm industry	Ardom Towergen Pvt Ltd	2023-24	9,52,198
					2022-23	44,19,785
					2020-21	5,71,852
					2019-20	8,91,000
6	Dr. Purva Mujumder	Kumud Ranjan Halder Pankaj Vyas Ashish Sharma	Effectiveness of constructability concept in the provision of infrastructure assets	Ardom Towergen Pvt Ltd	2023-24	6,36,416
					2023-24	6,20,171
					2023-24	2,250



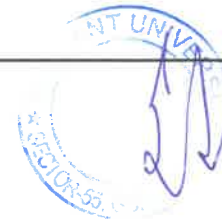
		Ketaki Sahore Shenbegam	Infrastructure assets		2023-24	1.49,400
					2023-24	35.27,942
7	Mr Anand Sharma, SET	Mohd. Shadab Alam Krishan Kumar Nisha Sharma Ayesha Mukherjee	Cost reduction in manufacturing using modern design and development techniques	Dynamic Precision Tools & Spm	2021-22	29,50,000
8	Dr. Alpana Jijja	Antim Dev Mishra Meenakshi Dubey Arti vaish Anushka chaudhry Ashutosh Raj anand	Cyber Security Vulnerabilities Assessment in manufacturing Industry	Dynamic Precision Tools & Spm	2021-22	11.09,200
9	Dr. Anjali Sehrawat	Ms Neetu Jora Kirti dahiya Sulakshna Banerjee Astha mehta	Financial impact of Legal and Statutory non-compliance in manufacturing industry	Dynamic Precision Tools & Spm	2021-22	12,98,000
10	Ms Roshni Sengupta	Chhavi Singla Saurabh Saraswat Navneet Vinayak Manvi aggarwal	Improving eye health in manufacturing industry	Dynamic Precision Tools & Spm	2022-23	9,50,775
					2021-22	6,75,751
					2021-22	14,75,000
					2020-21	1,81,698
					2019-20	45,481
11	Samridhi Singhal	Col. Virendra Kumar Malik Monisha Sharma Yashika ashish Navin Piplani	IoT in CNC Machining: Automating Data Collection and Insights	Dynamic Transmission Ltd	2022-23	13.41,814
12	Hitesh Gahlawat	Sabir Ali Shevata Parul Munjal Harminder Singh Mareena thomas	Strategies for HVAC energy saving	Fmi Automotive Components Pvt Ltd	2020-21	16,69,763
					2019-20	12,67,357
13	Suruchi Shah	Tapsya Samal Aditi Prasad Taral Harish Shah Surabhi Khanna Sachin datt	Model of an automotive adaptive exterior light system	India Japan Lighting Pvt Ltd	2020-21	28,00,524
					2019-20	44,61,394
14	Md. Anees	Amrita Madan Pooja Lalit Kumar Sandeep Gulia Farha Ahmed Neha Malick Radha Dayal	Transform manufacturing using IoT and generative artificial intelligence	India Japan Lighting Pvt Ltd	2023-24	99,99,161
					2022-23	1,82,41,388
					2020-21	5,61,018
					2019-20	8,62,325
15	Ankit Tiwari	Jeyanthi Nadesalingam Archana Ranjan Aruna Bhardwaj Piyush das	Understanding impact of space and its design on mental health and productivity of workers in manufacturing industries	Interface Microsystems	2019-20	57,503



16	Dr Jagat Narayn Giri	Saurabh Chhabra Naveen Nandal	Cost of loosing an employee in automotive industry	Lucas Tvs Ltd	2023-24	24,20,486
					2022-23	9,01,182
					2021-22	20,06,000
17	Dr Richa Divedi	Laurent J G Guiraud Chandana Paul Anshu Rawal Sunil Kumar	Relationship between Mental health and shift timings of employees working in shop floor	Lucas Tvs Ltd.	2021-22	17,70,000
18	Dr. Shaily Bashanjali	Kulmohan Singh Saif anjum Indu Prabha Aashiyani	Importance of soft-skills in automotive industry	Lucas Tvs Ltd.	2023-24	40,967
					2021-22	1298000
19	Ms Shweta Thusoo	Jyoti Kulmohan Singh Mohd Owais Khan Tinu Yadav Rahul sharma	Improving cardiovascular health of shop floor employees	Lucas Tvs Ltd.	2021-22	23,60,000
20	Dr. Saurabh Saraswat	Deepak Thakur Manvi Aggarwal Gunjan rana Farha Ahmed Bhavya arora	What pharmaceutical industries can learn from automotive industry	Lucas Tvs Ltd.	2023-24	9,91,109
					2022-23	12,65,565
					2021-22	16,52,000
21	Dr. T S Brar	Dr. Sachin Datt Radha Dayal Arjun kamal Sobia Ahsan Raktim saha	Importance of interior design on mental health of executives	Lucas Tvs Ltd.	2022-23	55,51,637
					2021-22	885000
					2020-21	5,30,381
					2019-20	4,37,150
22	Vibhuti Sachdev Tillotson	Monica Chaudhary Deepika Raina Purnima Rao Ekta Gyani Nidhi Dhadona Ramit naahar	Occupational health profile of workers employed in casting industry in India	M.J.Casting Ltd	2020-21	9,842
					2019-20	6,56,899



29	Deepak Miglani	Abu Talha Farooqi Suresh Bisht Amit Kumar Singh	Regulatory issues in cloud computing - Indian IT Industry and IT Act	Pc Solutions Pvt Ltd	2019-20	54,000
30	Vidushi Puri	Manleen Kaur Rahat Varma Aditi Prasad Komal Anjali Marwah	Impact of Digital India Initiatives on Indian SMEs - a case study	Roop Automotives Ltd	2020-21	1,61,359
					2019-20	1,92,146
31	Anshu Rawal	Arjun Kamal Raktim Saha Parul Munjal Piyush das Surabhi khanna	Adoption of information technology in automotive industries in India	Ryonan Electric India Pvt Ltd	2020-21	4,70,874
					2019-20	1,02,374
32	Shweta Thusoo	Zeeshan Akhtar Jyoti Shriprada Joshi Ankita Yadav Surabhi mathur	Future of supply chain management in auto components industries in India	Shiroki Auto Components India Pvt Ltd	2020-21	1,970
					2019-20	33,350
33	Arti Vaish	Prashansa Sagar Gupta Md shahroz alam Snigdha Roy Pragya Sharan Hotwani	Design and Analysis of Drive Shaft of an Automobile	Shivam Autotech Ltd	2020-21	8,88,832
					2019-20	16,34,402
34	Neha Gupta	Manimala Anand Sharma Himanshu sanghani Dinesh Rai Sherry Verma T S Brar	Higly efficient and clean decarbonized engines	Shriram Pistons & Rings Ltd	2023-24	5,21,363
					2023-24	59,07,427
					2020-21	14,31,998
					2019-20	20,79,634
35	Somya Tiwari	Nidhi Dandona Sudipto Sarkar Rupa Gupta Nandini Bhandari Jagroop singh	Efficient modeling of engine parts and design analysis	Shriram Pistons & Rings Ltd.	2021-22	4,13,0000
36	Chandana Paul	Anshu Rawal Neena Singh Zutshi Monika Khurana Bindu Thakral Simar Preet Dhingra	Impact of daily commuting on performance of employees - case study of automotive parts manufacturing industry	Shriram Pistons & Rings Ltd.	2021-22	37.76,000



23	Dr. Anjali Marwah	Ms. Tapsya Samal Ramadass Bama Thiruvengadam Kartikeya Chandra Kumud ranjan Piyush das	Mechanical metamaterials for sports helmets: structural mechanics, design optimisation, and performance	Minda Rinders Pvt Ltd	2020-21	4,43,297
					2019-20	22,77,061
24	Anamika Paul	Usman Khan Saloni Malhotra Alpana Jija Sherry Verma Sunil Kumar	Investigate the effect of ground tyre rubber as a reinforcement filler in natural rubber hybrid composites	Minda Tg Rubber Pvt Ltd	2020-21	4,98,376
					2019-20	3,06,393
25	Navdeep Barwal	Amit Singh Tomar Ramit Naahar Kirti Mankotia Chandana Paul Jagat giri	Growth of automotive exports of India	Mindirika Pvt Ltd	2020-21	10,52,350
					2019-20	3,73,523
26	Himanshu Sanghani	Radha Dayal Gunjan Rana Parul Sharma Suruchi Modi Varsha Khetrapal Payal malhotra	Impact of information communication technologies on automobile parts Design & Manufacturing in India	Mitsuba India Pvt Ltd	2023-24	11,25,819
					2023-24	23,91,804
					2020-21	21,14,175
					2019-20	18,77,740
27	Harneet Kaur	Kanupriya Deol Samiksha Ojha Deepika Bajaj Goutam datta Suruchi Shah Komal	Affordable modular kitchen designs for India	My 247 Services Private Ltd	2019-20	35,148
28	Surabhi Goyal	Meha Sharma Madhur Prakash Niraja Adloori Bhawna Dhandona Vidushi Puri	Future of industries manufacturing automotive parts in India - a case study	Ocap Chassis Parts Pvt Ltd	2020-21	2,40,304
					2019-20	3,27,295



37	Dr. Atul aggarwal	Komal Nisha Sharma Tanya Roshni Sengupta Richa Dwivedi Shaily Bhashanjali	Labor demand, supply and employee volatility in Indian manufacturing industry	Shriram Pistons & Rings Ltd.	2021-22	36.58,000
38	Dr. Sherry Verma	Dr. Bindu Krishan Kumar Saurav chhabra Jagbir singh Dahiya Anil dawra	Machine Learning based Spare part inventory management system	Shriram Pistons & Rings Ltd.	2021-22	35.40,000
39	Dr. Suman Dahiya	Dr. Suruchi Modi Surbhi Goyal Pooja Rastogi Dr. Latika Dhuan	Market analysis of spare parts manufacturing	Shriram Pistons & Rings Ltd.	2021-22	36.58,000
40	Amit Kumar Singh	Astha Mehta Ramesh Basa Laurent J G Guiraud Chhavi Singla Navdeep barwal	Legal challanges associated with additive manufacturing	Shriram Pistons & Rings Ltd.	2021-22	37,76,000
41	Kankan Kataria	Ms Anjali Marwah Charu Kapoor Nisha sharma Madhur Prakash	Sustainable interior design : case study of spare part industrial unit	Shriram Pistons & Rings Ltd.	2021-22	30.68,000
42	Varsha Khetrupal	Farah Ahmed Shruti s Hippalgaonkar Suruchi shah Rupa Gupta	Optimizing factory planning in the automotive industry	Shriram Pistons & Rings Ltd.	2021-22	38.94,000
43	Dr. Nidhi Chaudhary	Meenakshi Dhingra PARSHATI DUTTA Sumedha Garg Shweta thusoo Usman Khan	Assessing relationship between employee happiness quotient and performance in Manufacturing industry	Sunbeam Auto Pvt Ltd	2020-21	18,150
					2019-20	5,22,440
44	Dr. Isha Saini	Purva Mujumder Nisha Sharma Kiran G Singh Nisha Nandal Ishani Garg	Effect of mold designs on molten metal behaviour in high-pressure die casting	Sunbeam Lightweighting Solutions Pvt Ltd	2021-22	14,16,000
45	Dr. Mareena Thomas	Harminder Singh Sagarika Goswami Tajinder Kaur Neena Singh Zutshi Alka Gupta	Importance of digital prototyping and simulation to drive quality and efficiency in automotive design	Sunbeam Lightweighting Solutions Pvt Ltd	2021-22	10.03,000
46	Mr Rajan Bansal	Neha Mallick Bhawna Dandona Dinesh Rao	Comparative Life Cycle Assessment of green sand casting and low pressure die casting	Sunbeam Lightweighting Solutions Pvt Ltd	2021-22	8.26,000
					2020-21	1,88,968



		Dinesh Rao Srijani Hazra	and low pressure die casting		2019-20	36,584
47	Aruna Bharadwaj	Parul Munjal Sagar Gupta Rahat Varma Seema Lal Gupta	Impact of trained labor availability on SMEs related to manufacturing	Toyoda Gosei Minda India Private Limited	2020-21	72,092
48	Sunil Kumar	Garima Prakash Deepika Raina Ramdass bama Saloni Malhotra	Employee retention strategies - financial impact	Uno Minda Limited (Rinder Division)	2020-21	7,10,964
					2020-21	4,42,456
49	Dr. Naveen Piplani	Robbin Diwvedi Richa Agarwal Dr. Himadri S. Dey Parul Dhaka	Leadership and growth mindset in manufacturing industry	Uno Mindarika Pvt Ltd	2023-24	23,05,552
50	Pooja Rastogi	Inderjeet Kaur Prabh Bedi Sidharth Srivastava Mrunali arun balki Prashansa	Design and Analysis of Pedal Assembly for an FSAE Vehicle	Venus Industrial Corporation Pvt Ltd	2020-21	27,678
					2019-20	7,27,425
51	Tajinder Kaur Anand	Taral Harish Shah Pankaj Malhotra Bushra Fatima Sehba Saleem	Design of sustainable zippers and trim	Ykk India Private Ltd	2021-22	12,98,000
					2023-24	12,925
52	Kanu Priya	Saif Anjum Arushi Mallik Mehta Nisha Sharma Manisha machan Nain Lulla	Measuring customer feedback, response and satisfaction	Ykk India Private Ltd	2021-22	14,16,000
53	Avitesh Vaishnavi Nayak	Arjun Kamal Vipul gaur AAakash Gupta Pooja mehra	Skill gap in zipper manufacturing industry and its impact on growth	Ykk India Private Ltd	2021-22	9,67,600
					2023-24	1,54,184
54	Dr. Pankaj Vyas	Preetha Ravishree Monisha Sharma	Occupational Hazards of zipper manufacturing industry	Ykk India Private Ltd	2021-22	1121000
					2020-21	2,99,077
					2019-20	4,75,854
55	Dr. Anjali Sehrawat		Significance of Community Participation in Conservation of Jhilmil Jheel Wetland, Uttarakhand	Indian Council of Social Science Research	2022-23	4,76,600
56	Dr. Himadri Shekhar Dey		Mission Amrit Sarovar - Jal Dharohar Sanrakshan (MAS-JDS)	All India Council for Technical Education, Ministry of Education, Govt. of India	2022-23	2,00,000