

Sponsored Projects
Joint Research Projects

Projects By: Dr. Rupinder Singh and Dr. Jasmaninder Singh Grewal

1. **Research Grant of Rs 43.27 Lac** only for the year 2019-20, for the project, “Development of customized material for maintenance and repair of heritage structures by using additive manufacturing” by Department of Science and Technology.
Status: **Ongoing-Completing in Oct., 2022**

Collaboration with NITTTR Chandigarh

2. **Research Grant of Rs 32.88 Lac** only for the year 2017-18 under ASEAN-INDIA science & technology development fund , for the project, “Development of HAP ($\text{Ca}_5(\text{PO}_4)_3(\text{OH})$) reinforced biodegradable porous structures through polymer deposition technology for tissue engineering applications” by Department of Science and Technology.
Status: **Ongoing-Completing in Jan., 2021**

Collaboration with NUS Singapore and UMP Malaysia

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3. Research Grant of **Rs 26.29 Lacs** only for the year 2016-19, for the project, “Welding of dissimilar plastic based material by using hybrid filament of fused deposition modelling” by Board of Research in Nuclear Sciences (Department of Atomic Energy).
Status: **Completed**

Collaboration with BRNS Mumbai

4. **Research Grant of Rs 0.4 Lacs** only for the year 2017-18 under Student Project scheme (Student Name: Nishant Ranjan), for the project, “On development of poly lactic acid, hydroxyapatite and chitosan based three dimensional scaffolds/ functional prototypes by using additive manufacturing for biomedical applications” by Institution of Engineers (India). Status: **Completed**
5. **Grant-in-Aid of Rs 14.00 Lacs** only for the year 2017-18, under MODROBS for the project, “Development of nano-Hap composite polymer based non removable partial dentures” by All India Council for Technical Education, New Delhi. Status: **Completed**
6. Research Grant of **Rs 85.24 Lacs** only for the year 2015-18, for the project, “Polymer waste as fused deposition modelling feedstock filament for industrial applications” by Department of Science and Technology under Technology system development programme. Status: **Completed**
7. Research Grant of **Rs 21.03 Lacs** only for the year 2015-18, for the project, “Development of in-house/indigenous composite wire based feed stock filaments of fused deposition modelling for biomedical applications” by SERB, Department of Science and Technology, Government of India. Status: **Completed**
8. UGC Research Award/grant for year 2016-2018 **of Rs.42,12,937/-** for the research project, ‘Weldability of dissimilar plastic based material by using hybrid filament of

- fused deposition modelling with friction stir welding' under Mechanical Engineering. The award consists of full salary grant for 02 Years. Status: **Completed**
9. Research Grant of **Rs 0.5 Lacs** only for the year 2016-17 under Student Project scheme (Student Name: Sudhir Kumar, Ranvijay Kumar and Vinay Kumar), for the project, "Plastic waste management by recycling of polymer with reinforcement of metal powder for prototyping, milling and drilling applications" by Institution of Engineers (India). Status: **Completed**
 10. Research Grant of **Rs 0.60 Lacs** only for the year 2015-16, under Student Project scheme (Student Name: Narinder Singh and Piyush Bedi) for the project, "Investigations for mechanical properties of Nylon6-SiC-Al₂O₃ based feed stock filament for fused deposition modelling (FDM)" by Institution of Engineers (India). Status: **Completed**
 11. Research Grant of **Rs 29.15 Lacs** only for the year 2012-15, for the project, "Process capability analysis of hybrid rapid investment castings" by National Coordinated Project (NCP), by All India Council for Technical Education, New Delhi. Status: **Completed**
 12. Research Grant of **Rs 22.03 Lacs** only for the year 2012-15, for the project, "Development of rapid investment castings for industrial applications" by Council of scientific and industrial research, Extramural research division, New Delhi. Status: **Completed**
 13. Research Grant of **Rs 21.19 Lacs** only for the year 2012-15, under SERC fast track scheme for young scientists in engineering science for the project, "Experimental investigations for hybrid rapid mouldings" by Department of Science and Technology, Government of India. Status: **Completed**
 14. Research Grant of **Rs 11.05 Lacs** only for the year 2012-14, under Research Promotion Scheme for the project, "Development of rapid vacuum mouldings for industrial applications" by All India Council for Technical Education, New Delhi. Status: **Completed**
 15. Research Grant of **Rs 1.00 Lacs** only for the year 2011-12, under Student Project scheme (Student Name: Vipul Sharma) for the project, "Micro mould fabrication of plastic components by vacuum casting" by Institution of Engineers (India). Status: **Completed**
 16. Research Grant of **Rs 8.00 Lacs** only for the year 2008-09, under Research Promotion Scheme for the project, "Characterization and Machining performance of cryogenically treated cutting tools" by All India Council for Technical Education, New Delhi. Status: **Completed**
 17. Research Grant of **Rs. 10.5 Lacs** under Career Award for Young Teachers (CAYT) for the year 2007-08 by All India Council for Technical Education, New Delhi for a research project on 'Investigations for reducing wall thickness in shell casting using 3DP'. Status: **Completed**
 18. Research Grant of **Rs. 0.5 Lacs** for the year 2005-2006, under the research project entitled 'Investigating the machining characteristics of titanium alloys using ultrasonic machining' from Institution of Engineers (India), Kolkata. Status: **Completed**