**Title – Manufacturing of Thermoplastic composites for Biomedical Applications**

- Recently, the use of petroleum based or synthetic products decreased due to higher concern of researchers on green materials like- bio-materials, as an alternative of synthetic material. The increasing demand of bio-based products, bio-materials attracting researchers due to their low cost, eco-friendly etc. for further use in biomedical field such as drug delivery, tissue engineering, in the form of implants (bone plates, dental implants, ligaments, joint replacements, sutures, heart valve etc) and devices used in medical field (biosensors, pacemakers, artificial heart etc)

- Here we are interested to develop thermoplastic composites by various manufacturing process techniques to improve their strength as thermoplastic composite suffers from low strength. And these composites will further tested for biomedical applications such as drug delivery, tissue engineering, in the form of implants (bone plates, dental implants, ligaments, joint replacements, sutures, heart valve etc.)