**Research Plan for 2017-2018**

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| **Topics** |
| Simulation and manipulation of 2DOF Prosthesis Arm |
| Controlling of Robotic Hand and Figures |
| Design and Manufacturing of Thoracolumbosacral Orthosis Used for Child Suffering from Lumber Scoliosis |
| Study the effect of the foot type on the vibrational data for the AK prosthesis Limb |
| Effect of Type of Pylon material on the Properties of Below Knee |
| Design ,Manufacturing and Gait Analysis of Foot Orthosis |
| Hand Finger Amputees .A Survey Investigation and Case Study Application |
| Design and Implement of Smart Tissue using Shape memory Alloy |
| Finite Element modeling of Flat Foot Orthosis |
| Durability of The materials Used in the Flat Foot Orthosis |
| Fatigue and Biological Response of Polymer-Hydroxyapatite Composite for Load bearing Orthopedic Implants |
| Using of Carbon –fiber-Reinforced Polyetheretherketone Composite Implants in Orthopedic |
| Analysis ,Comparison and manufacturing of ankle Foot Orthosis for Different Ankle Foot Deformity |
| Analysis and Manufacturing of Above Knee Socket Prosthesis Using Revofit Solution |
| Design and fabrication of Supra –Malleolar Orthosis |
| Application of Intraosseous Transcutaneous Amputation |
| Design ,manufacturing and Analysis of Knee Ankle Foot Orthosis Konk Knee Deformity |
| Vibration Measurement and Analysis of Flexible Ankle Foot Orthosis |
| Investigating Alignment Position of Human Prosthesis Socket |