**Quality of student projects**

1. **Allocation Methodology**: Students are encouraged to form a group as per their interest. Assigned group of students are mentored by a faculty member. Students are guided to refer journals to identify project and literature survey. Few students identify their projects during industrial training. Students are given full freedom to choose their project in their field of interest.

Area of interest of students

 Project Identification

Project Allotment

Monitoring Progress through Weekly Discussions

Project Demo and Evaluation

Project Completion

Mid Term Assessment

End Term Evaluation (External)

Formation of Student Groups as per field of Interest

Allotment of Guide

Discussion with subject expert

Brain Storming

Literature Survey,

Industry Problem

Industrial Training Inputs

Figure: Project Selection Process.

1. **Types and relevance of the projects and their contribution towards attainment of POs is shown in following table.**

Table: List of POs addressed through students Projects

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Project Name** | **Guide** | **POs addressed**  |
| **2013-14** |
| 1 | Development of BI-Layer Knitted Sportswear. | DR. A.K.Chakrabarti | PO3 |
| 2 | Bamboo Based Composites For Furniture Application. | Dr. R.N.Joshi | PO3 |
| 3 | Bamboo Based Polymer Composites. | Dr. R.N.Joshi | PO3 |
| 4 | Designing Of Multi Gadgets Holding Jackets. | Dr.P.G.Solankar | PO6 |
| 5 | Role of ERP in Textiles. | Dr.P.G.Solankar | PO5 |
| 6 | A Study On Enhancement Of Water Absorbency Property Of Tri-Layer Sports Knitted Fabric.  | Dr.P.Pramanik | PO3 |
| 7 | Development F Of Electromagnetic Shield Fabric. | Dr.P.Pramanik | PO1 |
| 8 | Development of Silk Garment for Sweat Management. | Dr.P.Pramanik | PO3 |
| 9 | Optimization of Dying Conditions of Cationic Dye able Polyester with Cationic Dye. | Dr.P.Kar | PO3 |
| 10 | Optimizing Process Conditions for Alkaline Hydrolysis &Dying Conditions for Softer and Darker Dyed Regular Polyester.  | Dr.P.Kar | PO3 |
| **2014-15** |
| 1 | Flame Retardants Fabric | Dr.A.K.Chakrabarti | PO3 |
| 2 | Development of Heat Resistant Fabric | Dr.P.Pramanik | PO3 |
| 3 | Preparation of Exhaust Air Filter for Low Effluent Emission | Dr.A.K.Chakrabarti | PO6 |
| 4 | Development of Cut Resistance Fabric | Dr.P.Pramanik | PO6 |
| 5 | Electrical Energy Audit in Textile Plant | Dr.P. G.Solankar | PO7 |
| 6 | Effect Softeners on Thermal Comfort of Cotton Polyester Fabric | Dr.P.G.Solankar | PO4 |
| 7 | Antibacterial Finish Fabric | Dr.V.K.Joshi | PO3 |
| 8 | Fabrication of A Light Weight Motorbike Helmet Using Textiles | Dr.R.N.Joshi | PO3 |
| **2015-16** |
| 1 | Fabrication of Ply winding Machine | Dr.V.K. Joshi | PO3 |
| 2 | Energy Conservation in Spinning Plant | Dr. P. G. Solankar | PO4 |
| 3 | Fabrication of Hank To Cone, Cone To Cone, Bobbin To Cone, Parallel winding Machine | Dr.R.N.Joshi | PO3 |
| 4 | A study on effect of shore Hardness on Ring Spun yarn Quality  | Dr. A.K. Chakrabarti | PO2 |
| 5 | A study on effect of Spacer on Ring Spun yarn Quality | Dr. A.K. Chakrabarti | PO2 |
| 6 | A Study of Effect of Different Top Arm pressure on yarn structural properties  | Dr. A.K. Chakrabarti | PO2 |
| 7 | Anti – Odour Coating By using Activated Carbon. | Dr. Prabir Kar | PO7 |
| 8 | Fabrication of Apparatus for measuring Acoustic property of Fabric | Dr. P. Pramanik | PO3 |
| 9 | An Attempt To Produce High Wicking woven Fabric for Suiting | Dr. P. Pramanik | PO3 |
| 10 | Study of Different properties of Bambou- Banand Fabric | Dr.V.K. Joshi | PO2 |
| 11 | Fabrication of Ply winding Machine | Dr. V. K. Joshi | PO3 |
| 12 | Utilization of Textile waste For Reinforcement In Concrete Block | Dr. Prabir Kar | PO7 |
| 13 | Preparation Light Weight Helmet | Dr. R.N. Joshi | PO6 |
| **2016-17** |
| 1 | To Study the Effect of different Dyeing parameters on colour values of vat dyed cotton woven fabric | Dr. P. Kar | PO7 |
| 2 | Footcare of diabetic Patient through specially designed Socks | Dr. P.G. Solankar | PO6 |
| 3 | Development of knit braided rope for automobiles | Dr. R.N. Joshi | PO3 |
| 4 | To Study different properties of cord on braiding machine by changing different parameters | Dr. V.K. Joshi | PO1 |
| 5 | 3 – D Fabric on handloom  | Dr. P. Pramanik | PO3 |
| 6 | Control on Count CUY of 60s Ne Yarn in BABCO Spinning Mill  | Dr. A.K.Chakravarti | PO2 |
| 7 | Fabrication of Jacquard Handloom For Practical Purpose | Dr. R. N. Joshi | PO3 |
| 8 | High performance Fiber Fabric Filter for automotive | Dr. P. Pramanik | PO5 |
| 9 | Measurement of Roving and Sliver Strength by Newly forming Device | Dr. P. G. Solankar | PO5 |

1. **Projects related to the Industry**: Inventory Management in Spinning, Electrical Energy Audit in Textile Plant projects conducted in the industry

**List of Projects related/ carried out at industry:**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Title of Project**  | **Name o the Industry** |
| 1 | A study on effect of shore Hardness on Ring Spun yarn Quality  | Dr BAMCO Spinning Mill, Peth Shivani |
| 2 | A study on effect of Spacer on Ring Spun yarn Quality | Dr BAMCO Spinning Mill Pethshivani |
| 3 | A Study of Effect of Different Top Arm pressure on yarn structural properties  | Dr BAMCO Spinning Mill Pethshivani |
| 4 | Control on Count CUY of 60s Ne Yarn in BABCO Spinning Mill  | Dr. A.K.Chakravarti |