

Production Engineering Department**List of Projects offered by Faculties to Students of Semester VII for Term: June to Oct. 2018**

1. Computerization of Casting Defects- Sand Casting Process. 2. Resistance Spot Welding of Aluminum Alloys.	Dr. A. V. Gohil
3. Optimization in Crew Scheduling of Rajdhani Travels. 4. Optimization in Kerosene Distribution of Bhavnagar District. 5. Application of Linear Programming in Class Time Table Generation.	Dr. H. S. Trivedi
6. Design and fabrication of advanced vertical wind mill. 7. Optimizartion of process parameters of green sand casting. 8. Natural AC system for automobile.	Prof. M. J. Vora
9. Optimization of Supply Chain through Vehicle Routing and Load Balancing for a Typical Perishable Product like Milk and Milk Products. 10. Methods Improvement Analysis and Determination of Standard Time for a Foundry. 11. Selective Inventory Control: An Industrial Case Problem and its Financial Implications. 12. Analysis of Material Handling Problem at any Manufacturing/ Service Industry. 13. Queuing Problem and Determination of Number of Servers at Railway Reservation Counter/ Bank.	Dr. U. K. Chhaya
14. Impact of SC Strategy Dimensions on SC Performance Dimensions: An Empirical study in Indian Automobile Industry 15. Multipurpose Turret Lathe including Vertical Machining Oepration Using Gear Attachment operated by Elect. motor 16. Working of Cycle Using Wind Tunnel with Rechargeable Battery.	Prof. V. A. Parikh
17. Process parameters optimization for lathe machine. 18. Process parameters optimization for radial drilling machine. 19. Process parameters optimization for milling machine.	Prof. P. H. Solanki

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<p>20. Total Productive Maintenance: Cost Reduction through Improving Overall Equipment Efficiency (Excel Crop Care Ltd.)</p> <p>21. Vendor Development: Rating and Management to Improve Manufacturing Performance (Harsha Engineers Pvt., Ltd., Ahmedabad)</p> <p>22. Benchmarking: Improving Business Performance (SKF Bearings, Ahmedabad)</p> <p>23. Quality Assurance and Audit: Practices at Perishable Items Manufacturing Industry (G. P. Mangalani Foods Pvt. Ltd., Budhel, Bhavnagar)</p> <p>24. Root-Cause Analysis and Pareto Chart for Identification and Reduction of Defects in Castings. (Steelcast Pvt. Ltd., Bhavnagar)</p> <p>25. Application of Kaizen at Service Industry. (HDFC, Bank Ltd., Bhavnagar)</p> <p>Students can select organization of specific type if above addresses are not feasible to reach by them.</p>	Dr. M. D. Vadhvani
<p>26. Distribution of Automobile Tyre in Bhavnagar region – Supply Chain Practice</p> <p>27. Distribution of Newspaper in Bhavnagar region- Supply Chain Practice</p> <p>28. Selection of Suppliers in FMCG industry</p> <p>29. Selection of Logistic Providers in Courier services</p>	Prof. N. P. Nirmal
<p>30. Modified Layout in foundry industries to reduce accidental failure with implementation of ALDEP.</p> <p>31. Implementation of automated guided vehicles and ASRS for material handling equipment utilization in small scale industry for productivity improvement</p> <p>32. Fabrication of Pipe Thread cutting Machine</p>	Prof. K. T. Patel
<p>33. Mould design and mechanical analysis of the casted material</p> <p>34. Pneumatic rotary grinding machine</p> <p>35. Automatic foot dust vacuum cleaner machine</p> <p>36. Six axix material handling robot</p> <p>37. Pneumatic pick and place robot with video camera</p>	Prof. D. J. Desai

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38. By proper utilization of quality and it's effect in reduction of manufacturing lead time 39. SOWI apparatus for electricity generation 40. Pneumatic conveyor system for dirt removal	Prof. T. S. Vala
41. Design Modification of Vertical Drilling Machine for Keyway Attachment. 42. Improvement in Productivity by Using Value Stream Mapping. 43. Optimization of Process Parameters of Machining for Improve Surface Finishing.	Prof. B. J. Chudasama
44. Comparative analysis of wax blends to minimize expansion of wax patterns for investment casting. 45. Parametrical Study of friction welding of Aluminum. 46. Construction of a laboratory scale resistance heating furnace.	Prof. H. H. Thaker
47. Design and development of multipurpose stair climbing chair. 48. Design of nozzle junction based on ASME pressure vessel design codes. 49. Analysis and optimization of filleted area of junction using hub height and hub thickness ratio.	Prof. M. J. Bhatt
50. Design and Development of Oil Skimmer. 51. Design and development of pneumatically operated multi hacksaws machine. 52. Application of time study to improve productivity in making of heat exchanger.	Prof. P. V. Sartanpara
53. Optimization of material flow time by time and motion study in small scale production unit. 54. Reduction of bottleneck operation by application of systematic plant layout in small and medium scale production unit. 55. Determining standard time for molding operation using time and motion study in small scale foundry.	Prof. M. V. Gohil
56. Determining the standard time and improving productivity in short-life cycle production system. 57. Measuring Six-Sigma Level and enhancing productivity in small and medium scale casting industries 58. Quality and productivity improvement by application of different quality tools in steel industry.	Prof. J. A. Bhoi