

**Mechanical Engineering Department****Jorhat Engineering College****Year: 2017-2018**

<b>Group No.</b>	<b>Topic/ title</b>	<b>Guided By</b>	<b>Name of the student</b>
1	Tea factory layout design	Mr. A. K. Dutta	A. Sarma B. Patowary Ms. D. Sarma S. Baruah
2	Design and fabrication of manually operated reciprocating pump	Mr. D. Gogoi	N. Boro K. Rabha R. Mech S. N. Singh
3	Fabrication of abrasive jet machining	Dr. T. Nath	S. Majumdar A. A. Pradhani B. K. Gupta R. Gupta
4	Energy and exergy analysis of main components of a thermal power plant	Mr. B. K. Roy	P. Barman N. F. Islam B. Das M. Ahmed
5	Development and performance investigation of an indirect type solar dryer with a double pass bare solar air heater	Dr. D. K. Rabha	B. Gohain A. Baruah D. R. Phukan G. Gogoi
6	Fabrication of a solar parabolic trough collector for different absorbers, reflecting surfaces and flow rates	Mr. R. Kalita	A. Gogoi K. K. Saikia R. Rajkhowa Ms. M. Dowarah
7	Design and construction of a semi-automatic dishwasher machine	Mr. P. P. Saikia	E. Hussain B. B. Gohain S. B. Jamal M. Rohman
8	Design and fabrication of a two way automatic log splitter	Dr. (Mrs.) R. Nath	V. Thakur Ms. M. Sarmah R. Das A. Dey
9	Design and fabrication of areca nut de-husking machine	Mr. M. Rahman	R. Langthasa Lalremruata J. Teron H. P. Sonowal A. Ahmed
10	Fabrication and testing of hydraulic ram pump	Mr. M. Rahman	M. Gogoi R. Bhowmick S. Bhadra T. N. Hazarika
11	Cam operated variable stroke engine	Mr. D. R. Gogoi	R. Saha F. Hoque K. K. Bora A. Salam

12	Study analysis and experimental investigation of quality in black-smithy industry at Karanga, Jorhat	Dr. D. Hatibaruah	R. K. Misra D. Bayan D. Chandi A. Pait
13	Fabrication of an aluminium can crusher machine	Mr. R. Kalita	Ms. B. Gogoi Ms. C. A. Begum Ms. C. Baruah Ms. J. Bhuyan Ms. P. Kurmi
14	Effects of different heat treatment processes on the changes in mechanical properties and microstructure of a commercial grade mild steel	Dr. S. Paul	S. Basumatary J. A. Ahmed M. Das K. Gogoi A. A. Khan
15	Kinetic energy recovery by pneumatic suspension	Mr. A. K. Dutta	B. Bhattacharyya C. Baruah P. Agarwal C. Bora
16	Comparative study of solar tray dryer with and without latent heat storage	Dr. D. K. Rabha	A. A. Hazarika A. H. Laskar B. K. Singh Ms. S. Dutta
17	Regenerative braking system using torsion spring	Dr. D. Hatibaruah	P. J. Baruah R. Chakraborty B. Bafna Ms. T. Roy
18	Study, analysis and optimization of mechanical properties of welds in MIG welding	Mr. D. Kalita	M. P. Das D. Chelleng Y. Das B. Sonowal
19	Kitchen waste management: design and fabrication of a rotary drum composter	Dr. P. K. Mahanta	Ms. P. Hazarika Ms. A. Nirmala L. Saikia R. Baruah
20	Design and fabrication of manual vacuum pump	Dr. (Mrs.) R. Nath	W. Sharma G. J. Nath P. P. Barman J. C. Das
21	Design and fabrication of automatic paper stamping and feeding machine using crank and slotted lever mechanism	Mr. B. K. Roy	K. Deuri M. Rahman S. Hussain P. Saikia
22	Study, analysis and optimization of MIG welding process parameters for minimization of heat affected zone (HAZ)	Mr. D. Kalita	A. Borah A. Sarma B. Borah P. Goswami
23	Design and fabrication of a smart multipurpose nursing bed	Mrs. D. Bora	P. Sarma F. Islam S. Roy Ms. J. Saikia

24	Design and fabrication of manual cum motorised lifting machine	Mrs. D. Bora	A. Sarmah P. Mahanta S. Saikia R. Baruah
25	Modification of shell and tube type heat-exchanger	Mr. A. K. Dutta	C. Bora B. Borgohain