

ALPHA COLLEGE OF ENGINEERING & TECHNOLOGY
BE 3RD SEMESTER
DEPARTMENT OF MECHANICAL ENGINEERING
LIST OF TOPICS FOR ACTIVE LEARNING & OPEN ENDED PROBLEM

Sr.	DIV	ENROLL. NO.	NAME	ACTIVE LEARNING (10 MARKS)	OPEN ENDED PROBLEM (10 MARKS)
1	A	150510119001	AKASH SINGH	CLASSIFICATION OF MANUFACTURING PROCESS, TOOLS, & MOTIONS	DEVELOP A SIMPLEST POSSIBLE TOOL DYNAMOMETER TO DETERMINE THE FORCE THE TOOL EXERTS ON THE WORK PIECE IN A LATHE.
2	A	150510119002	YASH BHATT		
3	A	150510119003	MEET BHAVSAR		
4	A	150510119004	RUSHABH BHAVSAR		
5	A	150510119005	SOHAM BHAVSAR	TOOL SIGNATURE, CUTTING FORCES, MEASUREMENT OF TOOL FORCES USING DYNAMOMETER.	DEVELOP A MACHINE TO MAKE HOLES IN VERY SOFT MATERIAL.
6	A	150510119006	MILINDKUMAR CHAUHAN		
7	A	150510119007	NARENDRA CHAUHAN		
8	A	150510119008	BHAGIRATHSINH CHAVDA		
9	A	150510119009	RAJPALSINGH DEORA	TYPES OF LATHE MACHINES, CONSTRUCTION, ACCESSORIES & ATTACHMENTS OF LATHE.	DEVELOP A MACHINE TO MAKE CORRUGATED METAL SHEET.
10	A	150510119010	VARUN GANDHI		
11	A	150510119011	NAYTIK GHIYA		
12	A	150510119012	DEVASHISH HIMATPURA		
13	A	150510119013	VRITENDRAPRATAP JADON	LATHE OPERATIONS	A PRECISE HOLE IS TO BE DRILLED IN A ROD OF CIRCULAR CROSS SECTION AT A SPECIFIED DISTANCE FROM THE END OF THE ROD. THOUSANDS OF SUCH PARTS ARE REQUIRED. DEVELOP A JIG OR FIXTURE TO ENSURE THAT ALL THE PIECES ARE IDENTICAL.
14	A	150510119014	CHIRAGKUMAR JOGAWAT		
15	A	150510119015	MOHIT KYAD		
16	A	150510119016	MAHENDRAKUMAR SUTHAR		
17	A	150510119017	JIGNESH MAKWANA	PROCESS PLANNING AND TOOL LAYOUT IN LATHE MACHINE	DEVELOP A SIMPLEST POSSIBLE TOOL DYNAMOMETER TO DETERMINE THE FORCE THE TOOL EXERTS ON THE WORK PIECE IN A LATHE.
18	A	150510119018	SACHIN MALI		
19	A	150510119020	MAYUR PRAJAPATI		
20	A	150510119021	AJAYKUMAR MEENA		
21	A	150510119022	MEET PATEL	ALIGNMENT TEST IN LATHE MACHINE	DEVELOP A MACHINE TO MAKE HOLES IN VERY SOFT MATERIAL.
22	A	150510119023	ALOK MISHRA		
23	A	150510119024	BHARGAV PANCHAL		
24	A	150510119025	CHETANKUMAR PANCHAL		
25	A	150510119026	CHIRAG PANCHAL	TYPES, SIZE & SPECIFICATION OF DRILLING MACHINES	DEVELOP A MACHINE TO MAKE CORRUGATED METAL SHEET.
26	A	150510119027	DHARMIK PANCHAL		
27	A	150510119028	DHRUV PANCHAL		
28	A	150510119029	PARTH PANCHAL		
29	A	150510119031	CHINTAN PAREKH	TOOL & WORK HOLDING DEVICES	A PRECISE HOLE IS TO BE DRILLED IN A ROD OF CIRCULAR CROSS SECTION AT A SPECIFIED DISTANCE FROM THE END OF THE ROD. THOUSANDS OF SUCH PARTS ARE REQUIRED. DEVELOP A JIG OR FIXTURE TO ENSURE THAT ALL THE PIECES ARE IDENTICAL.
30	A	150510119032	PRIYANK PARMAR		
32	A	150510119035	ABHI PATEL		
33	A	150510119036	AKASH PATEL		
34	A	150510119037	AKSHAR PATEL	DRILLING MACHINE OPERATIONS & CUTTING PARAMETERS.	GOLD OF VERY THIN GAUGE IS TO BE USED TO COVER THE BODY OF A ROLLS ROYCE CAR. DESIGN A PROCESS/MACHINE TO MAKE SUCH A THIN GAUGE AND DEMONSTRATE USING ANY EASILY AVAILABLE MATERIAL.
35	A	150510119038	AKSHAY PATEL		
36	A	150510119039	AKSHAY PATEL		
37	A	150510119040	ANIKET PATEL		
38	A	150510119041	ARJUN PATEL	DRILLING MACHINE TOOLS & TWIST DRILL NOMENCLATURE.	DEVELOP A SIMPLEST POSSIBLE TOOL DYNAMOMETER TO DETERMINE THE FORCE THE TOOL EXERTS ON THE WORK PIECE IN A LATHE.
39	A	150510119042	BHAVESH PATEL		
40	A	150510119043	BINOYKUMAR PATEL		
41	A	150510119044	CHANDAN PATEL		
42	A	150510119045	DAKSH PATEL	TYPES OF BORING MACHINE, PARTS & SIZE OF HORIZONTAL BORNG MACHINE.	DEVELOP A MACHINE TO MAKE HOLES IN VERY SOFT MATERIAL.
43	A	150510119046	DEEP PATEL		
44	A	150510119047	DEVANG PATEL		
45	A	150510119048	DHANRAJ PATEL		

46	A	150510119049	DHRUMIL PATEL	BORING TOOLS, VERTICAL & JIG & PRECISION BORING MACHINE.	DEVELOP A MACHINE TO MAKE CORRUGATED METAL SHEET.
47	A	150510119050	DHRUV PATEL		
48	A	150510119051	DHRUV PATEL		
49	A	150510119052	DHRUVIL PATEL		
50	A	150510119053	FENIL PATEL	PRINCIPLE OF MILLING, MILLING METHODS, KINEMATICS OF MILLING MACHINE & TYPES OF MILLING MACHINE.	A PRECISE HOLE IS TO BE DRILLED IN A ROD OF CIRCULAR CROSS SECTION AT A SPECIFIED DISTANCE FROM THE END OF THE ROD. THOUSANDS OF SUCH PARTS ARE REQUIRED. DEVELOP A JIG OR FIXTURE TO ENSURE THAT ALL THE PIECES ARE IDENTICAL.
51	A	150510119054	GUNJAN PATEL		
52	A	150510119055	HARSH PATEL		
53	A	150510119056	HITESH PATEL		
54	A	150510119057	HITU PATEL	COLUMN & KNEE TYPE MILLING MACHINE, VARIOUS APPLICATION OF MILLING MACHINE USING DIFFERENT CUTTERS.	GOLD OF VERY THIN GAUGE IS TO BE USED TO COVER THE BODY OF A ROLLS ROYCE CAR. DESIGN A PROCESS/MACHINE TO MAKE SUCH A THIN GAUGE AND DEMONSTRATE USING ANY EASILY AVAILABLE MATERIAL.
55	A	150510119058	JAY PATEL		
56	A	150510119059	JAY PATEL		
57	A	150510119060	JEEL PATEL		
58	A	150510119061	KETUL PATEL	INDEXING AND DIVIDING HEADS.	DEVELOP A MACHINE TO MAKE HOLES IN VERY SOFT MATERIAL.
59	A	140510119001	ADITYA PATEL		
60	A	1	Prajapati Jaymeen Ramkrushn	WORKING PRINCIPLE OF SHAPER, TYPES OF SHAPER, PRINCIPLE PARTS AND SPECIFICATION OF SHAPER.	DEVELOP A SIMPLEST POSSIBLE TOOL DYNAMOMETER TO DETERMINE THE FORCE THE TOOL EXERTS ON THE WORK PIECE IN A LATHE.
61	A	2	Thakor Rahul Pratapji		
62	A	3	Parmar Amit M.		
63	A	4	Shah Vishal M.		
64	A	5	Zala Vishvajeetsinh V.	SHAPER MECHANISM, SURFACES PRODUCED ON SHAPER	DEVELOP A MACHINE TO MAKE CORRUGATED METAL SHEET.
65	A	6	Chauhan Sagarsinh V.		
66	A	7	Patel Tarak J		
67	A	8	Chavda Vishwarajsinh P.		
68	A	9	Panchal kartik Kiritbhai	PLANER, WORKING PRINCIPLE OF PLANER, TYPES OF PLANER, DRIVING MECHANISM FOR PLANER	A PRECISE HOLE IS TO BE DRILLED IN A ROD OF CIRCULAR CROSS SECTION AT A SPECIFIED DISTANCE FROM THE END OF THE ROD. THOUSANDS OF SUCH PARTS ARE REQUIRED. DEVELOP A JIG OR FIXTURE TO ENSURE THAT ALL THE PIECES ARE IDENTICAL.
69	A	10	Patel Jay M		
70	A	11	Bhavsar Prakash D.		
71	A	12	Patel Deep H.		
72	A	13	Patel Honey D.	SLOTTER, PRINCIPLE PARTS OF SLOTTER, TYPES OF SLOTTING DRIVES, OPERATIONS PERFORMED ON A SLOTTING MACHINE	DEVELOP A SIMPLEST POSSIBLE TOOL DYNAMOMETER TO DETERMINE THE FORCE THE TOOL EXERTS ON THE WORK PIECE IN A LATHE.
73	A	14	Shah Parth G.		
74	A	15	Patel Viraj M.		
75	A	16	Zala Navubha Vishnubhai		
76	A	17	Parmar Ravi Bakulbhai		
77	B	150510119062	KISHAN PATEL	CLASSIFICATION OF SAWING MACHINES, BLADES, SIZE & SPECIFICATIONS, CUTTING SPEED, APPLICATION.	DEVELOP A MACHINE TO MAKE HOLES IN VERY SOFT MATERIAL.
78	B	150510119063	MANTHAN PATEL		
79	B	150510119064	MEET PATEL		
80	B	150510119065	MEET PATEL		
81	B	150510119066	MEETKUMAR PATEL	BROACHING, CONSTRUCTION & OPERATION, SEQUENCE, TYPES OF BROACH AND THEIR APPLICATIONS.	DEVELOP A MACHINE TO MAKE CORRUGATED METAL SHEET.
82	B	150510119067	MIHIR PATEL		
83	B	150510119068	MIT PATEL		
84	B	150510119069	NIKULBHAI PATEL		
85	B	150510119070	PARAM PATEL	BROACHING MACHINES, TOOTH LOAD ON A BROACH, BROACHING SPEEDS, BROACH DESIGN, MACHINING TIME.	GOLD OF VERY THIN GAUGE IS TO BE USED TO COVER THE BODY OF A ROLLS ROYCE CAR. DESIGN A PROCESS/MACHINE TO MAKE SUCH A THIN GAUGE AND DEMONSTRATE USING ANY EASILY AVAILABLE MATERIAL.
86	B	150510119071	PARTH PATEL		
87	B	150510119072	PURVESH PATEL		
88	B	150510119073	PURVISHKUMAR PATEL		
89	B	150510119074	RAHIL PATEL	GRINDING MACHINES, SURFACE & CYLINDRICAL & INTERNAL GRINDING MACHINES.	A PRECISE HOLE IS TO BE DRILLED IN A ROD OF CIRCULAR CROSS SECTION AT A SPECIFIED DISTANCE FROM THE END OF THE ROD. THOUSANDS OF SUCH PARTS ARE REQUIRED. DEVELOP A JIG OR FIXTURE TO ENSURE THAT ALL THE PIECES ARE IDENTICAL.
90	B	150510119075	RAVI PATEL		
91	B	150510119076	SACHIN PATEL		
92	B	150510119077	SACHINKUMAR PATEL		
93	B	150510119078	SANKET PATEL		
94	B	150510119079	SHAILESHKUMAR PATEL	GRINDING WHEEL, BONDING PROCESS, GRIT, GRADE AND STRUCTURE OF WHEELS, MOUNTING WHEELS	DEVELOP A SIMPLEST POSSIBLE TOOL DYNAMOMETER TO DETERMINE THE FORCE THE TOOL EXERTS ON THE WORK PIECE IN A LATHE.
95	B	150510119080	SHUKANKUMAR PATEL		

96	B	150510119082	SWAPNILKUMAR PATEL	MOUNTED WHEELS.	
97	B	150510119083	VRUSHANK PATEL	SELECTION, GLAZING, LOADING, DRESING, TRUING & BALANCING OF GRINDING WHEELS. DIAMOND WHEELS.	DEVELOP A MACHINE TO MAKE HOLES IN VERY SOFT MATERIAL.
98	B	150510119084	JAIMINKUMAR PATNI		
99	B	150510119085	PARTH PRAJAPATI		
100	B	150510119086	RAVI PRAJAPATI		
101	B	150510119087	KULDEEPSINH RAJPUT	WORKING PRINCIPLE OF SHAPER, TYPES OF SHAPER, PRINCIPLE PARTS AND SPECIFICATION OF SHAPER.	DEVELOP A MACHINE TO MAKE CORRUGATED METAL SHEET.
102	B	150510119088	SHREYAS RAPOLE		
103	B	150510119089	RONAK RATHOD		
104	B	150510119090	RUSHIRAJ RATHOD		
105	B	150510119091	SAHIL PATEL	SHAPER MECHANISM, SURFACES PRODUCED ON SHAPER	GOLD OF VERY THIN GAUGE IS TO BE USED TO COVER THE BODY OF A ROLLS ROYCE CAR. DESIGN A PROCESS/MACHINE TO MAKE SUCH A THIN GAUGE AND DEMONSTRATE USING ANY EASILY AVAILABLE MATERIAL.
106	B	150510119093	RUSHABH SENER		
107	B	150510119094	AKASH SHAH		
108	B	150510119095	KEVIN SHAH		
109	B	150510119096	PAVAN SHAH	PLANER, WORKING PRINCIPLE OF PLANER, TYPES OF PLANER, DRIVING MECHANISM FOR PLANER	DEVELOP A SIMPLEST POSSIBLE TOOL DYNAMOMETER TO DETERMINE THE FORCE THE TOOL EXERTS ON THE WORK PIECE IN A LATHE.
110	B	150510119097	RUSHABH SHAH		
111	B	150510119098	RUSHIL SHAH		
112	B	150510119099	RUTVIK SHAH		
113	B	150510119100	SRUJAL SHAH	CLASSIFICATION OF MANUFACTURING PROCESS, TOOLS, & MOTIONS	A PRECISE HOLE IS TO BE DRILLED IN A ROD OF CIRCULAR CROSS SECTION AT A SPECIFIED DISTANCE FROM THE END OF THE ROD. THOUSANDS OF SUCH PARTS ARE REQUIRED. DEVELOP A JIG OR FIXTURE TO ENSURE THAT ALL THE PIECES ARE IDENTICAL.
114	B	150510119101	GOPESH SHARMA		
115	B	150510119102	PAVANKUMAR SHARMA		
116	B	150510119103	SURYAPRAKASH SHARMA		
117	B	150510119104	ABHISHEK SINGH	TOOL SIGNATURE, CUTTING FORCES, MEASUREMENT OF TOOL FORCES USING DYNAMOMETER.	DEVELOP A MACHINE TO MAKE CORRUGATED METAL SHEET.
118	B	150510119105	ARVIND SOLANKI		
119	B	150510119106	PARNAK SOLANKI		
120	B	150510119107	PRANAV SUTHAR		
121	B	150510119108	ASHWIN VAGHELA	TYPES OF LATHE MACHINES, CONSTRUCTION, ACCESSORIES & ATTACHMENTS OF LATHE.	DEVELOP A SIMPLEST POSSIBLE TOOL DYNAMOMETER TO DETERMINE THE FORCE THE TOOL EXERTS ON THE WORK PIECE IN A LATHE.
122	B	150510119109	DARSHAN VASOYA		
123	B	150510119110	VIHAR PATEL		
124	B	150510119111	AMAN VIROJA		
125	B	150510119112	RAKESHKUMAR YADAV	ALIGNMENT TEST IN LATHE MACHINE	DEVELOP A MACHINE TO MAKE HOLES IN VERY SOFT MATERIAL.
126	B	140510119143	SANKET PATEL		
127	B	140510119139	ROHAN PATEL		

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