





PANDIT DEENDAYAL PETROLEUM UNIVERSITY
SCHOOL OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING

Detailed list of instruments:

Sr. No.	DEAD-STOCK TITLE	Item Specification	Qty.	Figure
1	IPTG/EW/SC/07-08/1/1&2	XTURN CNC STANT BED LATH WITH 8 STATION INDEXING TOOL POST AND FANUC EMULATED CONTROL	2	
2	IPTG/EW/SC/07-08/1/3&4	XL MILL CNC BENCH MILLING MACHINE NON ATC	2	
3	IPTG/EW/SC/07-08/1/5	CAD CAM SOFTWARE TURNING AND MILLING CNC TRAIN SIMULATION SOFTWARE FANUC EMULATIN (FOR 10 USER)	10	--NA--







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4	IPTG/EW/SC/07-08/1/6	SERVO STABILIZER	1	
5	IPTG/EW/SC/07-08/1/7	BAND SAW MACHINE COMPLETE	1	
6	IPTG/EW/SC/07-08/1/8	PLLAR DRILL MACHINE	1	

Mech






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7	IPTG/EW/SC/07-08/1/10 to 13	100 mm. TABLE VICE	4		
8	IPTG/EW/SC/07-08/1/21	MEDIUM DUTY ALL GEARED LATHE MACHINE	1		
9	IPTG/EW/SC/07-08/1/38	BENDING MACHINE	1		
10	IPTG/EW/SC/07-08/1/39	SHAPING MACHINE	1		



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11	IPTG/EW/SC/07-08/1/40 & 41	PIPE VICE 50 mm. ROUND PILLAR TYPE	2		
12	IPTG/EW/SC/07-08/1/42	PIPE VICE 75 mm. ROUND PILLAR TYPE	1		
13	IPTG/EW/SC/07-08/1/43 & 44	PIPE VICE 100 mm. ROUND PILLAR TYPE	2		



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14	IPTG/EW/SC/07-08/1/46	SURFACE PLATE 24" X 24"	1		
15	IPTG/EW/SC/08-09/A1/1 to 10	VERNIER CALIPER SIZE-0-300 mm, 0-12"	10		
16	IPTG/EW/SC/08-09/A1/11	DIAL CALIPER SIZE-0-300mm.	1		
17	IPTG/EW/SC/08-09/A1/12	VERNIER DEPTH CALIPER SIZE - 0- 150 mm., 0-6"	1		

ME





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18	IPTG/EW/SC/08-09/A1/13 to 16	OUTE SIDE MICROMETER SIZE-0-25 mm.	4			
19	IPTG/EW/SC/08-09/A1/17	OUTE SIDE MICROMETER SIZE-25- 50 mm.	1			
20	IPTG/EW/SC/08-09/A1/19	OUTE SIDE MICROMETER SIZE-75- 100 mm.	1			
21	IPTG/EW/SC/08-09/A1/20 to 21	DIAL INDICATOR SIZE-0-5 mm.	2			





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22	IPTG/EW/SC/08-09/A1/22	DIGIMATIC INDICATOR SIZE-0-12.7 mm. 0-0.5"	1	
23	IPTG/EW/SC/08-09/A1/23	BEVEL PROTRACTOR SIZE-150-300 mm.	1	

Mechanics



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24	IPTG/EW/SC/08-09/A1/24 to 25	MEGNATIC STAND	2	
25	IPTG/EW/SC/08-09/A1/26	MEGNATIC STAND WITH FINE ADJUSTMENT	1	

Mech






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26	IPTG/EW/SC/08-09/A1/27	RADIUS GAUGE SET	1	
26	IPTG/EW/SC/08-09/A1/28	COMBINATION SQUARE SET, SIZE-300mm., 12"	1	
27	IPTG/EW/SC/08-09/A1/29	SPIRIT LEVEL, SIZE-300mm.	1	

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28	IPTG/EW/SC/08-09/A1/30	LONG STEEL TAPS, SIZE- 30 Mtr.	1	
29	IPTG/EW/SC/08-09/A1/31	DIGITAL TYPE DIAL HEIGHT CALIPERS, SIZE-0-450 mm.	1	
30	IPTG/EW/SC/08-09/A1/32	DIGIMATIC CALIPER, SIZE -0-300 mm. , 12"	1	






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31	IPTG/EW/SC/08-09/B1/1	MULTI PURPOSE GEARED HAND SHEARING	1	
32	IPTG/EW/SC/08-09/B1/2 to 5	CARPENTRE VICE, SIZE-150 mm. ,QUICK RELEASE	4	
33	IPTG/EW/SC/08-09/B1/6 to 7	CARPENTRE VICE, SIZE-200 mm. ,QUICK RELEASE	2	

Mech




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34	IPTG/EW/SC/08-09/B1/20 to 23	SHERLINE LATH MACHINE , MODEL No.-4410C	4	
35	IPTG/EW/SC/08-09/B1/24 to 27	SHERLINE DIRECTION VERTICAL MILLING MACHINE, MODEL No.- 2010	4	
36	IPTG/EW/SC/08-09/B1/31 to 32	HYDRAULIK PALLET TRUCK, CAPPACITY - 2000K.G.	2	





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37	PDPU/SPT/ EW/ SC /11-12/1/01	FUME EXTRACTION SYSTEM	1		
38	PDPU/SPT/ EW/ SC /11-12/1/02 to 15	BENCH VICE 6"	14		
39	PDPU/SPT/ EW/ SC /11-12/1/16 to 19	BENCH VICE 6"	4		
40	PDPU/SPT/ EW/ SC /11-12/1/20 to 31	BENCH VICE 6"	12		



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	<p>Faculty In-charge: Mr. Jatin Patel, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5346 E-Mail: jatin.patel@sot.pdpu.ac.in</p>	<u>2.THERMODYNAMICS LABORATORY</u>
	<p>Lab-Assistant: Mr. Piyush Chaudhari</p>	

Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	1 Cylinder. 4 stroke, water cooled, Diesel engine Test Ring (Kilosker Make) With Rope Brake Dynamometer, Exhaust Gas Calorimeter, made of S.S. & Digital Tachometer	1	PDPU/SOT/ME/Tdy/2011-12/01	





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2	Single Stage Air Compressor, Test Ring (1 Hp With Crompton) Digital Tachometer	1	PDPU/SOT/ME/Tdy/2011- 12/02	
3	Bomb Calorimeter (E.I.E. Make -Digital)	1	PDPU/SOT/ME/Tdy/2011- 12/03	
4	Electronics Balance (Make - Shiadzu)	1	PDPU/SOT/ME/Tdy/2011- 12/05	
5	Magnetic Stirrer with Heating (Make - Remi)	1	PDPU/SOT/ME/Tdy/2011- 12/06	



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	<p>Faculty In-charge: Mr. G. Nagababu, Mechanical Department, SOT, PDU, Gandhinagar. Contact: 079-2327-5464 E-Mail: nagababu.garlapati@sot.pdpu.ac.in</p>	<h3><u>3. STRENGTH OF MATERIALS LABORATORY</u></h3>
	<p>Lab-Assistant: Mr. Rakesh Prajapati</p>	

Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
01	Fatigue Testing Machine, Capacity: 200kg.cm Model: VFT- 200 (Make Venus Enterprises)	1	PDPU/SOT/MECH/SOM/	





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02	Torsion testing Machine Model: TTV 20 kgm (Make Venus Enterprises)	1	PDPU/SOT/MECH/SOM/	
03	Universal Testing Machine Capacity: 1000 kN Model: UTV 100E (computerized) (Make Venus Enterprises)	1	PDPU/SOT/MECH/SOM/	
04	Computerized Compression Testing Machine. Capacity: 2000kn (Make TechMech)	1	PDPU/SOT/MECH/SOM/	

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05	Rockwell cum Brinell Hardness Testing Machine Model: AI-RABI-1 Capacity: 250kgf (Make TechMech)	1	PDCU/SOT/MECH/SOM/	
06	Izod cum Charpy Impact Testing Machine. Model: TM-IT-30 Capacity: 300 Joules (Make TechMech)	1	PDCU/SOT/MECH/SOM/	

Mechanics





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07	Vickers Hardness Testing Machine	1	PDPU/SOT/MECH/SOM/	
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Mechanical Eng



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	<p>Faculty In-charge: Dr. Rajesh Patel, Mechanical Department, SOT, PDU, Gandhinagar. Contact: 079-2327-5494 E-Mail: rajesh.patel@sot.papu.ac.in</p>	<p>4. <u>REFRIGERATION & AIR CONITIONING</u> <u>LABORATORY</u></p>
	<p>Lab-Assistant: Mr. Mehulkumar Bhalu</p>	

Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	Heat Pump Demonstrator (Water to Water)	1	PDP/ SOT/ ME/ RAC/ 2012-13/ 01	





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2	Vapour Absorption Refrigeration Test Ring (Ammonia - Water)	1	PDPU/SOT/ME/RAC/2012-13/02	
3	Vapour compression refrigeration cycle Test Ring With Data Acquisition System (With Computer System)	1	PDPU/SOT/ME/RAC/2012-13/03	
4	Computerized Air-Conditioning Cycle Test Ring With Data Acquisition System (With Computer System)	1	PDPU/SOT/ME/RAC/2012-13/04	





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	<p><u>Faculty In-charge: Production technology Lab</u> Mr. Jaykumar Vora Mechanical Engineering Department, SOT, PDU, Gandhinagar. Contact: 079-2327-5423 E-Mail: jay.vora@sot.pdu.ac.in</p>	<p><u>5. PRODUCTION TECHNOLOGY LABORATORY</u></p>
	<p><u>Lab-Assistant:</u> Mr. Jayesh Panchal</p>	



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Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
01	CAPSTAN TURRET LATH MACHINE (SPM) COMPLETE WITH ALL STANDARD ACCESSORIES	01	PDPU/SOT/ME/PT/12-13/01/001	
02	SPARK EROSION MACHINE (EDM)S-50	01	PDPU/SOT/ME/PT/13-14/01/002	



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Faculty In-charge:

Mr. Parth Prajapati,
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E-Mail: parth.prajapati@sot.pdupu.ac.in



Lab-Assistant:

Mr. Mehulkumar Bhalu


6. POWER PLANT ENGINEERING LABORATORY

Mechanical Engg. Lab.



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Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number	Item Specification	Qty.	Figure
1	Boiler old (Non-Working)	PDPU/SOT/ME/PPE/2013-14/01	01	




Faculty In-charge:

Mr. Jatin Patel,
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7. NON CONVENTIONAL ENERGY SOURCES
LABORATORY



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	Lab-Assistant: Mr. Alpesh Rajput	
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Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	FLAT PLATE COLLECTOR	1	PDPU/SOT/ME/NCES/2012-13/01	
2	SOLAR DISTILLATION APPARATUS	1	PDPU/SOT/ME/NCES/2012-13/02	





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3	SOLAR WATER HEATER SYSTEM (EVC)	1	PDP/USOT/ME/NCES/2012-13/03	
4	SOLAR THERMAL PARABOLIC THROUGH COLLECTOR TRAINING SYSTEM	1	PDP/USOT/ME/NCES/2012-13/04	

Mechanics



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	<p><u>Faculty In-charge:</u> Mr. Kush Mehta, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5465 E-Mail: kush.mehta@sot.pdu.ac.in</p>	<p><u>8. MANUFACTURING PROCESS –II LABORATORY</u></p>
	<p><u>Lab-Assistant:</u> Mr. Jayesh Panchal</p>	

Mechanical Engg. Lab.





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Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number	Name of Item	Qty.	Figure
1	PDPU/SOT/ME/MP-2/2014/01	ARGON GAS CYLINDER (Empty)	1	
2	PDPU/SOT/ME/MP-2/2014/02	WELDING CURTAIN	6	






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3	PDP/ME/MP-2/2014/03	MMA/TIG/MIG WELDING MACHINE, MODEL No.-IFLEX 350	1	
4	PDP/ME/MP-2/2014/04	OXYGEN GAS CYLINDER, 7.1 Cu.M.	2	

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5	PDP/ME/SOT/MP-2/2014/05	ACETYLENE GAS CYLINDER 7.1 Cu.M.	2	
6	PDP/ME/SOT/MP-2/2014/06	SPOT CUM PROJECTION WELDING MACHINE, MODEL No.-KEP-30PR45	1	
7	PDP/ME/SOT/MP-2/2014/07	WATER CIRCULATION SYSTEM FOR ABOVE 30 KVA SPOT WELDING MACHINE	1	







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8	PDPU/SOT/ME/MP-2/2014/08	BANDSAW BLADE WELDING MACHINE WITH SHEARING ATTACHMENT & GRINDING ATTACHMENT , MODEL No.-KB-031	1	
9	PDPU/SOT/ME/MP-2/2014/09	DOUBLE CYLINDER TROLLY WITH TOOL BOX	1	
10	PDPU/SOT/ME/MP-2/2014/10	SINGLE CYLINDER TROLLY	1	






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11	PDPU/SOT/ME/MP-2/2014/11	MICRO INJECTION MOLDING MACHINE	1	
12	PDPU/SOT/ME/MP-2/2014/12	6-HEATING BENDS	6	
13	PDPU/SOT/ME/MP-2/2014/13	TENSILE TEST MOULDS AS PER ASTM D638	1	
14	PDPU/SOT/ME/MP-2/2014/14	IZOD IMPACT MOULDS AS PER ASTM 256	1	




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15	PDP/ME/MP-2/2014/15	FLEXURE MOULD AS PER ASTM D 790	1	
16	PDP/ME/MP-2/2014/16	RACIPROCATING COPRESSOR	1	
17	PDP/ME/MP-2/2014/17	I-1330-3 CUTMASTER 25 MANUAL PLASMA CUTTING INVERTER , 415-V. 3-PHASE 50/60 Hz / 16 Amps. 80A@ 40% DUTY CYCLE WITH SL60 , 6.1M HAND CUTTING TOURCH, WORK HEAD 7-8910 CUTTING GUDEKIT	1	


Mechanical



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	Lab-Assistant: Mr. Ashok Chavada	
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Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number	Name of Item	Qty.	Figure
1	PDP/ST/ME/MP-I/ 12-13/01/001	UNIVERSAL MILLING MACHINE COMPLETE WITH ALL STANDARD ACCESSORIES	1	



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2	IPTG/EW/SC/07-08/01/09	SLIDING TABLE 8"X 8"	1	
3	IPTG/EW/SC/07-08/01/18	UNIVERSAL DIVIND HEAD	1	
4	IPTG/EW/SC/07-08/01/19	ROTARY TABLE	1	
5	IPTG/EW/SC/07-08/01/20	UNIVERSAL MACHINE VICE	1	






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6	IPTG/EW/SC/07-08/01/21	MEDIUM DUTY ALL GEARED LATH MACHINE	1	
7	IPTG/EW/SC/07-08/01/22 TO 23	DEAD CENTER	2	
8	IPTG/EW/SC/07-08/01/24	CENTER ADAPTOR	1	

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9	IPTG/EW/SC/07-08/01/25	STEADY REST FOR ET 0.7 & ET 1.0	1	
10	IPTG/EW/SC/07-08/01/26	FOLLOW REST FOR ET 0.7 & ET 1.0	1	
11	IPTG/EW/SC/07-08/01/27	COOLANT PUMP WITH TANK & FITTINGS	1	






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12	IPTG/EW/SC/07-08/01/28	THREE JAW CHUCK 8"X3"	1	
13	IPTG/EW/SC/07-08/01/29	FOUR JAW CHUCK 10"X 4"	1	
14	IPTG/EW/SC/07-08/01/30	REVOLING CENTER	1	





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15	IPTG/EW/SC/07-08/01/31	MACHINE LAMP	1	
16	IPTG/EW/SC/07-08/01/32	QUICK CHANGE TOOL POST	1	
17	IPTG/EW/SC/07-08/01/33	UNIVERSAL MILLING MACHINE	1	






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18	IPTG/EW/SC/07-08/01/34	VERTICAL HEAD	1	
19	IPTG/EW/SC/07-08/01/35	COLLET CHUCK ISO 40	1	
20	IPTG/EW/SC/07-08/01/36	PARKING BRACKETS FOR VERTICAL HEAD MOUNTING	1	






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21	IPTG/EW/SC/07-08/01/37	MACHINE LAMP	1	
22	IPTG/EW/SC/07-08/01/39	SHAPING MACHINE	1	
23	IPTG/EW/SC/07-08/01/45	BENCH GRINDING MACHINE	1	





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24	IPTG/EW/SC/08-09/01/B20 TO B23	SHERLINE LATH MACHINE MODEL NO-4410C	4	
25	IPTG/EW/SC/08-09/01/B24 TO B27	SHERLINE DIRECTION VERTICAL MILLING MACHINE MODEL NO - 2010	4	
26	PDPU/SOT/ME/12-13/1 TO 3	ALL GEARED LATH MACHINE , MODEL NO- 35	3	





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	<p><u>Faculty In-charge:</u> Mr. Vivek Patel, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-53 E-Mail: @sot.pdpu.ac.in</p>	<p><u>10 MECHANICAL MEASUREMENT & METROLOGY</u> <u>LABORATORY</u></p>
	<p><u>Lab-Assistant:</u> Mr. Alpesh Rajput</p>	



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1	PROFILE PROJECTOR WITH 50X MAGNIFICATION	1	PDPU/SOT/ME/M.M.M/2011-12/01	
2	GEAR ROLLING TESTER	1	PDPU/SOT/ME/M.M.M/2011-12/02	



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3	MICRO METER SCREW GAUGES 0-25mm	1	PDPJ/SOT/ME/M.M.M/2011-12/03	
4	MICRO METER SCREW GAUGES 25-50mm	1	PDPJ/SOT/ME/M.M.M/2011-12/04	
5	DIGITAL VERNIER CALIPER 0-150mm x0.01mm	1	PDPJ/SOT/ME/M.M.M/2011-12/05	
6	TELESCOPIC GAUGE	1	PDPJ/SOT/ME/M.M.M/2011-12/06	






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7	ELECTRONIC COMPARATOR	1	PDPU/SOT/ME/M.M.M/2011-12/07	
8	SINE BAR-300mm	1	PDPU/SOT/ME/M.M.M/2011-12/08	
9	SURFACE MESURING INSTRUMENT	1	PDPU/SOT/ME/M.M.M/2011-12/09	
10	DIAL BORE GAUGE 50-150mm	1	PDPU/SOT/ME/M.M.M/2011-12/10	



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11	VERNIER DEPTH GAUGE 0-200mm	1	PDPU/SOT/ME/M.M.M/2011-12/11	
12	METRIC FILLER GAUGE 0.05-1.0mm	1	PDPU/SOT/ME/M.M.M/2011-12/12	
13	VERNIER CALIPER 0.200mm	3	PDPU/SOT/ME/M.M.M/2011-12/13	
14	TEPER RING GAUGE	1	PDPU/SOT/ME/M.M.M/2011-12/14	







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15	TEPER PLUG GAUGE	1	PDPU/SOT/ME/M.M.M/2011-12/15	
16	STEEL WIRE GAUGE ROUND NECK	1	PDPU/SOT/ME/M.M.M/2011-12/16	
17	DIAL GAUGE 0-10mm	1	PDPU/SOT/ME/M.M.M/2011-12/17	
18	PLAIN RING GAUGE	1	PDPU/SOT/ME/M.M.M/2011-12/18	



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19	PYROMETER-500 DEG.	1	PDPU/SOT/ME/M.M.M/2011-12/19	
20	MECHANICAL FORCE GAUGE -20 KGF	1	PDPU/SOT/ME/M.M.M/2011-12/20	
21	MECHANICAL TORQUE GAUGE-50-224 NM	1	PDPU/SOT/ME/M.M.M/2011-12/21	
22	SLIPE GAUGE SET	1	PDPU/SOT/ME/M.M.M/2011-12/22	



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23	VERNIER HEIGHT GAGUE	1	PDPU/SOT/ME/M.M.M/2011-12/23	
24	BEVEL PROTECTOR	1	PDPU/SOT/ME/M.M.M/2011-12/24	
25	PLAIN PLUG GAUGE DOUBLE END	1	PDPU/SOT/ME/M.M.M/2011-12/25	
26	RADIES GAUGE	1	PDPU/SOT/ME/M.M.M/2011-12/26	







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27	TEMPERATURE CALIBRATION EQUIPMENT	1	PDPU/SOT/ME/M.M.M/2011-12/27	
28	Automatic Money Counter With Fake Money Detector	1	PDPU/SOT/ME/M.M.M/2011-12/28	
29	Contact type digital tachometer	1	PDPU/SOT/ME/MMM/2011-12/29	
30	Mechanical tachometer	1	PDPU/SOT/ME/MMM/2011-12/30	



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31	Non-contact Thermometer	1	PDPU/SOT/ME/MMM/2011-12/31	
32	Whirling type hygrometer	1	PDPU/SOT/ME/MMM/2011-12/32	
33	Wet & dry Bulb hygrometer	1	PDPU/SOT/ME/MMM/2011-12/33	
34	Digital clamp-meter (Tong tester)	1	PDPU/SOT/ME/MMM/2011-12/34	



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35	Digital sound level meter	1	PDPU/SOT/ME/MMM/2011-12/35	
36	Digital Lux meter	1	PDPU/SOT/ME/MMM/2011-12/36	
37	Digital Anemometer	1	PDPU/SOT/ME/MMM/2011-12/37	
38	Digital PH-meter	1	PDPU/SOT/ME/MMM/2011-12/38	






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39	Digital Manometer	1	PDP/UT/ME/MMM/2011-12/39	
40	Digital Temp. Humidity Measurement with daily Update	1	PDP/UT/ME/MMM/2011-12/40	
41	Digital Thermocouple Sensor	1	PDP/UT/ME/MMM/2011-12/41	
42	Stethoscope	1	PDP/UT/ME/MMM/2011-12/42	






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43	Sphygmomanometer	1	PDPU/SOT/ME/MMM/2011-12/43	
44	Electronic Weight Measuring Machine	1	PDPU/SOT/ME/MMM/2011-12/44	
45	Height Measuring Device up to 2m Length	1	PDPU/SOT/ME/MMM/2011-12/45	



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46	Weight Measuring Apparatus Mechanical Type up to 120 kg	1	PDPU/SOT/ME/MMM/2011-12/46	
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	<p><u>Faculty In-charge:</u> Mr. Bhargav Gadhvi Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5325 E-Mail: bhargav.gadhavi@sot.pdupu.ac.in</p>	<p><u>11. KINEMATICS OF MACHINES LABORATORY</u></p>
	<p><u>Lab-Assistant:</u> Mr. Piyush Chaudhari</p>	



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Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	SCOTCH YAKE MECHANISM (Table Top Working Model)	1	PDPU/SOT/ME/K.M./2011-12/01	
2	OLDHAM COUPLING (Table Top Working Model)	1	PDPU/SOT/ME/K.M./2011-12/02	
3	WATT S MECHANISM (Table Top Working Model)	1	PDPU/SOT/ME/K.M./2011-12/03	
4	CRANK & SLOTTED LINK MECHANISM (Table Top Working Model)	1	PDPU/SOT/ME/K.M./2011-12/04	






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5	MODEL FOR CAM FOLLOWER (Table Top Working Model)	1	PDPU/SOT/ME/K.M./2011-12/05	
6	SLIDER CRANK MECHANISM (Table Top Working Model)	1	PDPU/SOT/ME/K.M./2011-12/06	
7	MODEL OF KINEMATICS PAIRS (Table Top Working Model)	1	PDPU/SOT/ME/K.M./2011-12/07	
8	BI-FILLER TRIFILLER SUSPEN. (Table Top Working Model)	1	PDPU/SOT/ME/K.M./2011-12/08	



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9	FOUR BAR MECHANISM (Table Top Working Model)	1	PDP/ME/K.M./2011-12/09	
10	PANTOGRAPH MECHANISM (Table Top Working Model)	1	PDP/ME/K.M./2011-12/10	
11	FOUR BAR CHAIN MECHANISM (Table Top Working Model)	1	PDP/ME/K.M./2011-12/11	

Mechanics



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	<p><u>Faculty In-charge:</u> Mr. Rakesh Chaudhari, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5345 E-Mail: Rakesh.Chaudhari@sot.pdpu.ac.in</p>	<p><u>12.INTERNAL COMBUSTION ENGINE</u> <u>LABORATORY</u></p>
	<p><u>Lab-Assistant:</u> Mr. Mehulkumar Bhalu</p>	

Mechanical Engg. Lab.




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DEPARTMENT OF MECHANICAL ENGINEERING

Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number	Item Specification	Qty.	Figure
1	PDPU/SOT/ME/2013-14/01	Different types of carburetors (, Honda carburetor, four wheeler)	2	
2	PDPU/SOT/ME/2013-14/02	Diesel engine fuel pumps (diesel car,)	2	
3	PDPU/SOT/ME/2013-14/11	Diesel fuel injector (nozzles)	1	



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4	PDP/ME/SOT/2013-14/03	Radiator	1	
5	PDP/ME/SOT/2013-14/04	Honda engine (CT-100)	1	
6	PDP/ME/SOT/2013-14/05	Flywheel of engine	1	
7	PDP/ME/SOT/2013-14/06	Inlet and exhaust valve assembly	1	






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8	PDPU/SOT/ME/2013-14/07	Pistons models (BIKE/CAR)	2	
9	PDPU/SOT/ME/2013-14/08	Connecting rods	2	
10	PDPU/SOT/ME/2013-14/09	Crankshaft	1	
11	PDPU/SOT/ME/2013-14/10	Cams and cam shafts	1	





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12	PDP/ME/SOT/2013-14/12	Single cylinder 4 stock VCR diesel engine test ring with computer	1	
13	PDP/ME/SOT/2013-14/13	Equipment for MORSE test on multi cylinder petrol engine with CNG kit	1	
14	PDP/ME/SOT/2013-14/14	Cut section modal of actual 4 cylinder 4 stock petrol engine with MPFI and COLLING system	1	





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15	PDPU/SOT/ME/2013-14/15	Cut section modal of actual 4 cylinder 4 stock diesel engine with Fuel injection and cooling system	1	
16	PDPU/SOT/ME/2013-14/16	Cut section of diesel engine fuel system	1	

Mechanical Engg.





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	<p>Faculty In-charge: Dr. Anurag Mudgal, Mechanical engineering Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5437 E-Mail: Anurag.mudgal@sot.pdpu.ac.in</p>	<p><u>13.HEAT AND MASS TRANSFER LABORATORY</u></p>
	<p>Lab-Assistant: Mr. Alpesh Rajput</p>	






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Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	FORCED CONVECTION HEAT TRANSFER TEST RING	1	PDPU/SOT/ME/HMT/2012-13/01	
2	STIFFEN BOLTZMENN CONSTANT APPARATUS	1	PDPU/SOT/ME/HMT/2012-13/02	






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3	EMMIISIVITY MEASURMENT APPARATUS	1	PDPU/SOT/ME/HMT/2012-13/03	
4	PARELLEL FLOW & COUNTER FLOW HEAT EXCHANGER APPARTUS	1	----	
5	HEAT TRANSFER IN NATURAL CONVECTION APPARATUS	1	---	



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6	THERMAL CONDUCTIVITY OF INSULATING POWDER APPARATUS	1	----	
7	THERMAL CONDUCTIVITY OF METAL ROD APPARATUS	1	---	
8	SHELL AND TUBE HEAT EXCHANGER APPARATUS	1	---	

Mechatronics



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DEPARTMENT OF MECHANICAL ENGINEERING




	<p>Faculty In-charge: Mr. Shabbir Memon, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5321 E-Mail: shabbir.memon@sot.pdpu.ac.in</p>	<p>14. FLUID MECHANICS LABORATORY</p>
	<p>Lab-Assistant: Mr. Ashok Chavada</p>	

Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	METACENTRIC HEIGHT APPARUTUS	1	PDPU/SOT/ME/F.M/2011-12/01	





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2	FLOW THROUGH MOUTH PIECE AND ORIFICE Apparatus	1	PDPU/SOT/ME/F.M/2011-12/02	
3	IMPACT OF JET SET –UP Apparatus	1	PDPU/SOT/ME/F.M/2011-12/04	
4	COMPRESSOR MULTISTAGE Apparatus	1	PDPU/SOT/ME/F.M/2011-12/05	



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5	WIND TUNNEL MODEL WT-2, TEST SECTION 300*300*300 Apparatus	1	PDPU/SOT/ME/F.M/2011-12/06	
6	KAPLAN TURBINE TEST RING, CLOSED CIRCUIT WITHOUT DATA ACQUISITION, ALONG WITH ACCESSORIES Apparatus	1	PDPU/SOT/ME/F.M/2011-12/07	

Mechanical



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Faculty In-charge:

Dr. Rajesh Patel
Mechanical Department,
SOT,
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Lab-Assistant:

Mr. Ashok Chavada



15. FLUID MACHINERY LABORATORY

Mechanical Engg. Lab.





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Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number		Name of Item	Qty.	Figure	
1	IPTG/ES/SC/08-09/1/11	1	REYNOLDS APPRATUS (HD 110)	1		
2	IPTG/ES/SC/08-09/1/12	1	DISCHARGE THROUGH VENTURIMETER, ORFICEMETER, & ROTAMETER (HD 108)	1		





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3	IPTG/ES/SC/08-09/1/13	1	FRICTION PRESSURE DROP THROUGH PIPES	1		
4	IPTG/ES/SC/08-09/1/14	1	FLOW THROUGH PIPE FITTINGS	1		

Mech






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5	IPTG/ES/SC/08-09/1/15	1	EFLUX TIME OF TANK IN VISCOUS FLOW	1	
6	IPTG/ES/SC/08-09/1/17	1	BERNOLLIS THEOREM	1	
7	IPTG/ES/SC/09-10/01	1	PENUMATIC TEST BENCH WITH COMPRESOR	1	
8	IPTG/ES/SC/09-10/02	1	HYDRAULIC RAM	1	

ME



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9	IPTG/ES/SC/09-10/03	1	FRANCIS TURBINE TEST RING	1	
10	IPTG/ES/SC/09-10/04	1	RECIPROCATING PUMP TEST RING	1	
11	PDP/ES/SC/09-10/05	1	CENTRIFUGAL PUMP MODULE	1	
	//	1	(A) TURBINE DYNAMO METER	1	





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	//	1	(B) PELTON WHEEL	1	
	//	1	© KAPLAN TURBINE	1	
	//	1	(D) VERSATILE DATA ACQUISITION SYSTEM	1	
	//	1	(E) UNIVERSAL DYNAMO METER	1	
12	PDP/ESL/09-10/06	1	AXIAL FAN MODULE	1	
	//	1	(A) UNIVERSAL DYNAMO METER	1	
	//	1	(B) VERSATILE DATA ACQUISITION SYSTEM	1	
	//	1	© PITOT STATIC TRAVERSE (500 MM)	1	

Mech



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	<p><u>Faculty In-charge:</u> Mr. Jaydeep Patel Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5320 E-Mail: jaydeep.patel@sot.pdpu.ac.in</p>	<p><u>16.ELEMENTS OF MECHANICAL ENGINEERING</u> <u>LABORATORY</u></p>
	<p><u>Lab-Assistant:</u> Mr. Jayesh Panchal</p>	



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Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	Model Of Lancashire Boiler	1	PDP/ME/EME/2011-12/01	
2	Model Of Babcock & Wilcox Boiler	1	PDP/ME/EME/2011-12/02	
3	Model Of Locomotive Boiler	1	PDP/ME/EME/2011-12/03	






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4	Model Of Cochran Boiler	1	PDP/ME/EME/2011-12/04	
5	Rack & Pinion	1	PDP/ME/EME/2011-12/05	
6	Model Of Air Lift Pump	1	PDP/ME/EME/2011-12/06	



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7	Pendulum Pump Table Top Working Model	1	PDP/OT/ME/EME/2011-12/07	
8	Centrifugal Pump Table Top Working Model	1	PDP/OT/ME/EME/2011-12/08	
9	Rotary Pump Table Top Working Model	1	PDP/OT/ME/EME/2011-12/09	



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10	Band Brake Table Top Working Model	1	PDPU/SOT/ME/EME/2011-12/10	
11	Disc Brake Model	1	PDPU/SOT/ME/EME/2011-12/11	
12	Double Shoe Brake Table Top Working Model	1	PDPU/SOT/ME/EME/2011-12/12	






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13	Single Shoe Brake Table Top Working Model	1	PDPU/SOT/ME/EME/2011-12/13	
14	Band & Block Brake Table Top Working Model	1	PDPU/SOT/ME/EME/2011-12/14	
15	Internally Expanding Brake Table Top Working Model	1	PDPU/SOT/ME/EME/2011-12/15	

Mechanical






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16	Claw Clutch Table Top Working Model	1	PDPU/SOT/ME/EME/2011-12/16	
17	Plate Clutch Table Top Working Model	1	PDPU/SOT/ME/EME/2011-12/17	
18	Centrifugal Clutch (Table Top Working Model)	1	PDPU/SOT/ME/EME/2011-12/18	

Mechanics



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19	Multi Plate Clutch (Table Top Working Model)	1	PDPU/SOT/ME/EME/2011-12/19	
20	Sudgen Super Heater (Table Top Working Model)	1	PDPU/SOT/ME/EME/2011-12/20	
21	Belt Drive Single Speed (Table Top Working Model)	1	PDPU/SOT/ME/EME/2011-12/21	



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22	Belt Drive Two Stage (Table Top Working Model)	1	PDPU/SOT/ME/EME/2011-12/22	
23	MODEL OF BELT PULLEYS (Flat Belt Pulley, Rope Pulleys' Belted Pulley, Cone Pulley)	1	PDPU/SOT/ME/EME/2011-12/23	
24	Types Of Bearing (4-No.)	1	PDPU/SOT/ME/EME/2011-12/24	



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25	Differential Gear Assembly (Table Top Working Model)	1	PDP/ME/2011-12/27	
26	Green Economizer (Table Top Working Model)	1	PDP/ME/2011-12/28	
27	UNIVERSAL COUPLING (Table Top Working Model)	1	PDP/ME/2011-12/40	





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28	Working Model Of Motor CAR Steering	1	PDP/OT/ME/EME/2011-12/41	
29	Working Model Of Tractor Steering	1	PDP/OT/ME/EME/2011-12/42	
30	Model Of Gear Box With Clutch	1	PDP/OT/ME/EME/2011-12/43	





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DEPARTMENT OF MECHANICAL ENGINEERING

	<p>Faculty In-charge: Dr. Vishvesh Badheka, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5441 E-Mail: vishvesh.badheka@spt.pdpu.ac.in</p>	<p>17. <u>ENGINEERING METALLURGY LABORATORY</u></p>
	<p>Lab-Assistant: Mr. Piyush Chaudhari</p>	



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Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number	Item Specification	Qty.	Figure
1	PDPU/SOT/ME/ENG.MET/11-12/01/001	ENGINEERING METALLURGY MICROSCOP	1	
2	PDPU/SOT/ME/ENG.MET/12-13/01/001	SPECIMEN CUTTING MACHINE MODEL NO-7001-CM	1	






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3	PDPU/SOT/ME/ENG.MET/12-13/01/002	BELT GRINDER MODEL NO-7001-CM	1	
4	PDPU/SOT/ME/ENG.MET/12-13/01/003	SAMPLE MOUNTING PRESS MODEL NO-7001-CM	1	
5	PDPU/SOT/ME/ENG.MET/12-13/01/004	POLISHING DOUBLE DISK	1	




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6	PDPU/SOT/ME/ENG.MET/12-13/01/005	DIGITAL IMAGE CAPUTURING DEVICE + 5-MEGA PIXELES ADPTORE Fitted in this Apparatus	1+1	
7	PDPU/SOT/ME/ENG.MET/12-13/01/006	COMPETE METALULOGRAPHIC STRUCTURE AND GRINESIZE Software Installed in Computer	1	


	<p>Faculty In-charge: Mr. Nirav Patel, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5424 E-Mail: nirav.patel@sot.pdpu.ac.in</p>	<p><u>18. ENGINEERING GRAPHICS LABORATORY</u></p>
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	Lab-Assistant: Mr. Piyush Chaudhari	
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Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
1	Wooden Drawing Board (B1 - Size) Mounted on Adjustable Table or Stand (Tilted up to -15°)	60	----	



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	<p>Faculty In-charge: Mr. Bhargav Gadhvi & Dr. Vimal Savsani, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5325 079-2327-5484 E-Mail: bhargav.gadhavi@sot.pdpu.ac.in vimal.s@sot.pdpu.ac.in</p>	19. DYNAMICS OF MACHINES LABORATORY
	<p>Lab-Assistant: Mr. Piyush Chaudhari</p>	

Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number	Item Specification	Qty.	Figure
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1	PDP/ME/2012-13/01	CAM & Follower Apparatus With Motor	1	
2	PDP/ME/2012-13/02	Motorized Governor Apparatus	1	
3	PDP/ME/2012-13/03	Digital Stroboscope Tachometer	1	



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4	PDP/ME/2012-13/04	Stopwatch (02-Compiementary)	3	
5	PDP/ME/2012-13/05	GYROSCOPE APPARATUS(TEST SETUP WITH MEASUREMENT)	1	
6	PDP/ME/2012-13/06	STATICS & DYNAMIC(Table Top Working Model)	1	
7	PDP/ME/2012-13/07	WHIRLING OF SHAFT APPARATUS (TEST SETUP WITH MEASUREMENT)	1	





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8	PDP/ME/SOT/2012-13/08	Universal vibration Apparatus (Test setup with measurement Make EEE)	1	
9	PDP/ME/SOT/2012-13/09	Torsional Vibration Apparatus (Test setup with measurement Make EEE)	1	
10	PDP/ME/SOT/2012-13/10	BI-FILLER TRIFILLER SUSPEN.(Table Top Working Model)	1	





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11	PDP/USOT/ME/DOM/2012-13/11	WORKING MODEL FOR WATT GOVERNOR	1	
12	PDP/USOT/ME/DOM/2012-13/12	WORKING MODEL FOR PORTER GOVERNOR	1	





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13	PDCU/SOT/ME/DOM/2012-13/13	WORKING MODEL FOR PROELL GOVERNOR	1	
14	PDCU/SOT/ME/DOM/2012-13/14	WORKING MODEL FOR HARTNELL GOVERNOR	1	



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	<p><u>Faculty In-charge:</u> Mr. Nirav Patel, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5424 E-Mail: nirav.patel@sot.pdpu.ac.in</p>	<p><u>20. DESIGN OF MACHINE</u> <u>ELEMENTS LABORATORY</u></p>
	<p><u>Lab-Assistant:</u> Mr. Piyush Chaudhari</p>	



Detailed list of instruments:

Sr. No.	Name of Item	Qty.	Dead Stock Number /Asset Number	Figure
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1	Wooden Drawing Board (B1 - Size) Mounted on Adjustable Table or Stand (Tilted up to - 15°) [E.G. Lab.]	60	----	
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	Faculty In-charge: Mr. Jaydeep Patel, Mechanical Department, SOT, PDPU, Gandhinagar. Contact: 079-2327-5320 E-Mail: jaydeep.patel@sot.pdpu.ac.in	21. <u>COMPUTER AIDED MANUFACTURING LABORATORY</u>
	Lab-Assistant: Mr. Arvind Makwana	





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Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number	Item Specification	Qty.	Figure
1	IPTG/EW/SC/07-08/1/1&2	XTURN CNC STANT BED LATH WITH 8 STATION INDEXING TOOL POST AND FANUC EMULATED CONTROL (Available in Workshop)	2	
2	IPTG/EW/SC/07-08/1/3&4	XL MILL CNC BENCH MILLING MACHINE NON ATC (Available in Workshop)	2	



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	<p>Faculty In-charge: Dr. Vimal Savsani & Mr. Jaydeep Patel, Mechanical Department, SOT, PDU, Gandhinagar. Contact: 079-2327-5484 079-2327-5320 E-Mail: vimal.s@sot.pdpu.ac.in jaydeep.patel@sot.pdpu.ac.in</p>	<p align="center">22. <u>COMPUTER AIDED DESIGN & ENGINEERING</u> <u>LABORATORY</u></p>
	<p>Lab-Assistant: Mr. Mehulkumar Bhalu</p>	

Detailed list of instruments:

Sr. No.	Dead Stock Number /Asset Number	Item Specification	Qty.	Figure
1	----	COMPUTER SYSTEM WITH INSTALLED SOFTWARE	30+30 = 60	