

PLANNED SYLLABUS COVERAGE (Theory)

G.P. Kangra		Department: Mechanical Engg		Subject: Fluid Mechanics & Hydraulics	
SYLLABUS COVERAGE		Course: Diploma (M.E.)		Duration: 14 weeks	
		Total Periods: 56		Theory: 56	
Sl. No.	Period No.	Topic	Details	Instruction Reference	Additional Study Recommended
1.	1-4	Properties of fluids	Density, Specific gravity, specific weight, specific volume, dynamic viscosity, kinematic viscosity, surface tension, capillarity, vapour pressure, compressibility	fluids mechanics & hydraulic machines	
2.	5-10	Fluid Pressure Pressure measurement	Fluid Pressure, Pressure head, Pressure intensity, concept of vacuum and gauge pressure, atmospheric pressure, absolute pressure, simple and differential manometers, Bourdon pressure (simple problems on manometers only)	by S.S. Rattan fluid mechanics & hydraulic machines	
3.	11-18	II Fluid flow	Types of fluid flow, Path line and streamline, continuity eqn. Bernoulli's theorem for ideal fluid, principle of operation of venturimeter, orificemeter and pitot tube. Derivation for discharge, coefficient of discharge and simple numerical problems.	by R.K. Bansal	
4.	19-27	Flow through pipes	Laminar and turbulent flow; Darcy's eqn. and Chezy eqn. for friction losses, minor losses in pipes, Hydraulic gradient and total gradient line, simple numerical problems to estimate losses only.		

To be approved from concerned HOD within seven days from beginning of semester & will be kept with the concerned teacher in his file.

No.	Q.No.	Topic	Instruction Reference	Additional Recommended
5.	28-36	III Impact of jets	Impact of jet on fixed or vertical moving vertical flat plates Impact of jet's on curved vanes with special reference to turbines, simple numerical on work done & efficiency	
6.	37-46	Hydraulic Turbine	Layout of Hydroelectric power plant, features of hydro electric power plant classification of hydraulic turbines Selection of turbine on the basis of head and discharge available, construction & working principle of pelton, francis and Kaplan turbines draft tubes types and construction, concept	

Extra Topics to be covered beyond the scope of the syllabus (as required by industry/ as recommended by Teacher which he/ she finds necessary)

Sr. No.	Period No.	Topic Covered	Instruction Reference	Additional Study recommended	Remarks

Approved / Not approved	
Date 01/08/26	HOD Sign Ashwini
Date	Principal Sign R. S.

Use additional sheets (if required).

PLANNED SYLLABUS COVERAGE(Theory)

G.P. Kangra		Department: <u>Mechanical Engg.</u> Subject <u>Fluid Mechanics & Hydraulics</u> <u>machinery</u>				
SYLLABUS COVERAGE		Course <u>Diploma (M.E.)</u>		Duration <u>14 weeks</u>		
		Total Periods <u>56</u>		Theory <u>56</u>		
Sl. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
7.	47-50	Centrifugal Pumps	of cavitation in turbines calculation of work done Power, efficiency of turbines Unit quantities and Simple numericals. Principle of working & application, Types of casings and impellers, concept of Multistage, concept of primary and cavitation manometric head, worked Manometric efficiency overall efficiency.			
8.	51-56	Reciprocating Pumps.	construction, working principle and application of a single and double acting reciprocating pumps, concept of slips, Negative slip cavitation and separation.			

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Practical Planning & Coverage Status

Department: Mechanical Engineering
 Course: Diploma (M.E)

Laboratory: Fluid mechanics & Hydraulic Machinery lab
 Subject: Fluid mechanics & Hydraulic Machinery

Sr. No.	Details of Practical	Availability of		Likely Turn/Date	Actual Date	Responsibility	HOD Sign.	Remarks
		Equipment Set up	STD Ref. Write up					
1.	Measurement of pressure head by employing: i) Piezometer tube ii) U-tube manometer iii) Differential U-tube manometer.	Piezometer tube U-tube manometer Differential U-tube manometer	Fluids Mechanics	G1 09/08/2026 G2 10/08/2026	G1 G2			
2.	Verification of Bernoulli's theorem	Bernoulli's apparatus test rig	Hydraulic Machines	G1 19/08/2026 G2 24/08/2026	G1 G2			
3.	Determination of coefficient of discharge of Venturimeter.	Venturimeter Test Rig	by SS Ration	G1 26/08/2026 G2 31/08/2026	G1 G2			
4.	Determination of coefficient of discharge, coefficient of contraction and coefficient of velocity of orifice meter.	Orifice test Rig	Fluid mechanics & Hydraulic machines by R.K. Bansal	G1 02/09/2026 G2 07/09/2026	G1 G2			
5.	Determination of coefficient of friction of flow through pipes	Pipe Friction Apparatus		G1 09/09/2026 G2 21/09/2026	G1 G2			
6.	Determination of minor losses of flow through pipes.	Minor losses Apparatus		G1 16/09/2026 G2 28/09/2026	G1 G2			
7.	Calibration of pressure gauge using dead weight pressure gauge tester.	Dead weight Tester with calibrated weight, spirit		G1 23/09/2026 G2 05/10/2026	G1 G2			
8.	Conduct performance test on centrifugal pump	Centrifugal pump test rig		G1 30/09/2026 G2 12/10/2026	G1 G2			
9.	Study a single acting reciprocating pump.	Model of reciprocating pump		G1 07/10/2026 G2 02/11/2026	G1 G2			
10.	Study of Pelton wheel and Francis/Kaplan turbine with the help of models.	Model of Francis/Kaplan turbine & Pelton wheel		G1 21/10/2026 G2 16/11/2026	G1 G2			

Approved/ Not approved


 HOD Sign with date


 Principal Signature with date

Practical Planning & Coverage Status

Department: Mechanical Engg.

Laboratory:

Automobile Lab

Course: Diploma in Mech. Engg.

Subject:

Automotive Lab

Sr. No.	Details of Practical	Availability of		Likely Turn/Date	Actual Date	Responsibility	HOD Sign.	Remarks
		Equipment Set up	STD Rcl. Write up					
1.	Study of different types of clutches and adjust the clutch pedal play	Yes	Yes.	12/8/26 (G2)				
2.	Study of front axle, rear axle and differential of an automobile	Yes	Yes.	19/8/26				
3.	Study of different types of gear box	Yes	Yes.	26/8/26				
4.	Study of Steering System of Automobile.	Yes	Yes.	2/9/26				
5.	Study of hydraulic brake system of an automobile, bleeding of hydraulic brakes	Yes	Yes.	9/9/26				
6.	Procedure of rotation of wheels, balancing of wheels and alignment of wheels	Yes	Yes.	16/9/26				
7.	Study of drive train of electric vehicle & its various parts	Yes	Yes.	23/9/26				
8.	Spark plug cleaning and gap setting	Yes	Yes	30/9/26				
9.	Driving test on four wheelers.	Yes	Yes.	7/10/26				

Approved/ Not approved

Signature

Signature

Principal Signature with date

Department: MECHANICAL ENGR. Subject: Elements of Refrigeration & Air Conditioning
Course: DIPLOMA Duration: 3 years.

Total Periods 56 Theory 56

Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
3.	14 to 20	Refrigeration Equipments.	Compressor - Hermetically sealed & semi hermetically sealed Compressor, Condenser Air Cooled Water Cooled Natural and forced draught Cooling Systems Advantages and disadvantages of Air Cooled & Water Cooled Condenser Evaporators, natural convection, forced convection types.			

Extra Topics to be covered beyond the scope of the syllabus (as required by industry/ as recommended by Teacher which he/she finds necessary)

Sr. No.	Period No.	Topic Covered	Instruction Reference	Additional Study recommended	Remarks

Approved / Not approved	
Date 01/08/2026	HOD Sign Ashwini
Date	Principal Sign

For additional sheets (if required)

PLANNED SYLLABUS COVERAGE(Theory)

GPK-F-17

G P Kangra		Department: <u>MECH. ENGG.</u> Subject <u>OE-1 (Vehicular Systems)</u>				
SYLLABUS COVERAGE		Course <u>open Elective</u> Duration <u>14 weeks</u>				
		Total Periods <u>56</u> Theory <u>56</u>				
Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
01.		Introduction	Types of automobiles. Different layouts of vehicles. chassis, frame and body. spark ignition (SI) & Compression ignition CI engines.			
02.		Automotive engine parts.	Cylinder - arrangements and their relative merits. Liners, piston, connecting rod, crankshaft, valves, valves actuating mechanisms.			
03.		Transmission systems.	Clutch - types and construction of single plate clutch, propeller shaft, slip joints, universal joints, differential and rear axle.			

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Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
04.		Brakes & Suspension systems.	Requirements, leaf springs, coil springs, types of brakes, mechanical & hydraulic braking systems, brakes shoes arrangements, disk brake, drum brakes, antilock-braking system, purpose and operation of anti-lock braking system.			
05.		safety and comfort systems.	Passive safety system - airbags, seatbelts, crumple zone. active safety system - ADAS, ABS, reverse parking system, anti collision system, traction control system.			

comfort systems - cruise control, Heating ventilation, A/C (HVAC), autonomous Driving cars - level of Driving automation (Basic def. & function only).
Extra Topics to be covered beyond the scope of the syllabus (as required by industry/ as recommended by Teacher which he/ she finds necessary)

Sr. No.	Period No.	Topic Covered	Instruction Reference	Additional Study recommended	Remarks

Approved / Not approved	
Date 01/08/2026	HOD Sign <i>Ashwini</i>
Date 01/08/2026	Principal Sign <i>[Signature]</i>

Use additional sheets (if required).

Practical Planning & Coverage Status

MECHANICAL ENGINEERING DIPLOMA

TURNING WORKS
ME LAB-III

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Practical Planning & Coverage Status

Department: MECHANICAL ENGINEERING
 Course: DIPLOMA

Laboratory: MACHINING W/SHOP.
 Subject: ME LAB III

Sr. No.	Details of Practical	Availability of		Likely Turn/Date	Actual Date	Responsibility	HOD Sign.	Remarks
		Equipment Set up	STD Ref. Write up					
1.	Job on producing a Rectangular block by milling to a given accuracy of 0.1mm to 0.02 mm.	Available	Workshop Technology by B.S. Rangtane Dhanpat Rai publication	A 27/09/26 B 6/05/26 C 13/08/26 D 20/08/26				
2.	To prepare a slot on one face of a job with a slotting cutter/ side and face milling cutter.	- Do -	Workshop Technology by R.P. Singh	A 01/09/26 B 11/08/26 C 18/08/26 D 25/08/26				
3.	Use of form milling cutter to make a contour on job No-2.	- Do -	Singh Katon Boops.	A 24/09/26 B 03/09/26 C 10/09/26 D 17/09/26				

S.No.	Detail of Practicals	Availability of		Theory Turn/Data	Vapour Box	Cooling possibility	HOD Sign	Remarks
		Equipment Set up	Std Rec. Write up					
4.	Gensation of four gear teeth on Round Bar.	- Available -	Wingshot Technology by Dr. Jyoti Bini Pandey Intern	A-29/07/16 B-08/07/16 C-15/07/16 D-24/07/16				
5.	Grinding of milling centres etc. on a tool & Cutter grinder.	- D.O. -		A-7/10/16 B-01/10/16 C-08/10/16 D-15/10/16				
6.	Disassembling some of components of milling M/C & service and assemble the same.	- D.O. -	Makar Gauge & Self Study; Instruction	A-29/10/16 B-06/10/16 C-13/10/16 D-24/10/16				

Department: Mechanical Engg. Practice: I Planning & Coverage Status
 Course: Diploma Laboratory: Welding Shop
 Subject: M.E. Lab - III

No.	Details of Practical	Availability of		Likely Turn/Date	Actual Date	Respon
		Equipment Set up	STD : f. Writ up			
1.	Fabrication of circular job using TIG welding	Available	Workshop Practice and Self instructions	A 25/8, 27/8 22/9, 24/9 B 1/9, 3/9, 29/9, 1/10 C 11/8, 13/8, 6/10, 8/10 D 18/8, 20/8, 18/10, 19/10	A B C D	
2.	Fabrication of a Butt Lap joint by using MIG welding.	-Do-	-Do-	A 22/9, 24/9 22/10, 29/10 B 29/9, 1/10 4/10, 5/10 C 8/9, 10/9 10/10, 12/10 D 15/9, 17/9 17/10, 19/10	A B C D	

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Principal

Department
Course

Mech. Engg.

Lab. Story:
Subject:Smithy
ME Lab - IIIMech.
5th

Sl. No.	Details of Practical	Availability of		Likely Turn/Date	Actual Date	Response
		Equipment Set up	STD Ref. Write up			
1	Making a Drawing of Job & Cutting Material for Job square/hexagonal headed by bolt	As per syllabus Available	Workshop Technol - III	(A) $\frac{18}{8}, \frac{20}{8}$ (B) $\frac{25}{8}, \frac{27}{8}$ (C) $\frac{01}{09}, \frac{03}{09}$ (D) $\frac{11}{8}, \frac{13}{8}$		100%
2	Making a Square/Hexagonal headed bolt by drop forging.	✓	✓	(A) $\frac{15}{09}, \frac{17}{09}, \frac{13}{10}$ (B) $\frac{22}{09}, \frac{24}{09}, \frac{22}{10}$ (C) $\frac{29}{09}, \frac{01}{10}, \frac{04}{11}$ (D) $\frac{08}{09}, \frac{10}{09}, \frac{06}{10}$		100%
3	Revision	✓	✓	(A) $\frac{15}{10}, \frac{17}{11}$ (B) $\frac{29}{10}, \frac{17}{11}$ (C) $\frac{08}{10}, \frac{19}{11}$ (D) $\frac{08}{10}, \frac{10}{11}, \frac{28}{11}$		100%

Approved/Not approved

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Principal

PLANNED SYLLABUS COVERAGE(Theory)

Department: Mech. Engg. Subject TOM & Mech.

Course Diploma Duration 3 Years

Total Periods 70 Theory 70

SYLLABUS COVERAGE

Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
1.	1-10	Cam and followers	Concept, Definition and app. of Cam & followers Classification of Cams and followers; Different follower motion and their Displacement Diagrams: Uniform velocity, SHM, Uniform Acc. and Retardation; Drawing of profile of Radial cam with knife edge and roller follower without offset for Reciprocating motion. (Graphical method for Uniform velocity and SHM only)	Theory of machine by R.K Bansal Laxmi Publication	Theory of machine by S.S. Rattan	
2.	11-24	Power Transmission	Type of Drive; Flat, V-belt & its application, material for flat belt, V belt, Angle of Lap, Belt length, Slip & Creep; Determination of V.R. Ratio of Tight/slack side Tension, Centrifugal Tension and Initial Tension.		Tata McGraw Hill Publications	

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Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended
			Condition of max. power Transmission (without proof) Simple Numerical Chain drive, Advantage and Disadvantage, Gear Drive - spur gear Terminology, Type of Gear and Gear train Train value and velocity Ratio for simple and Compound Gear train		

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Sr. No.	Period No.	Topic Covered	Instruction Reference	Additional Study recommended	Remarks

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Date 01/08/26	HOD Sign 
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PLANNED SYLLABUS COVERAGE(Theory)

P Kangra		Department: <u>Mech. Engg.</u> Subject <u>T. O.M & Mech.</u>			
SYLLABUS COVERAGE		Course <u>Diploma</u>	Duration <u>3 year</u>		
		Total Periods <u>70</u>	Theory <u>70</u>		
Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
25-41	Fly wheel and Governors	Fly wheel, Concepts & and application of fly wheel with the help of T.M.O for Single cylinder 4-Stroke I.C engine, Cof of fluctuation of energy and Speed with its significance Governor, Type and explanation with neat sketch (Centrifugal, Watt and Porter) Concept of function & Terminology of Governors, Comparison of Governor with fly wheel.			
42-57	Break Clutch & Bearing.	f ⁿ of Brakes; Type of Brakes, Comparison of break and dynamometers Construction and working of Shoe, Band, Disk Brakes Concept of self locking and self energizing Break, Clutch- f ⁿ of clutch and its application, Construction and working of Single, Multiple, Centrifugal, Cone Clutch; Bearing, Simple pivot, collar bearing, Conical Pivot.			

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Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
5.	58-70	Balancing and Vibration	Concept of Balancing; Balancing of single rotating mass; Graphical Method of Balancing of several masses revolving in same plane; Vibration and its types, Concept of Damping; Cause of Vibration in machines; Their harmful effects and Remedies			

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PLANNED SYLLABUS COVERAGE(Theory)

GPK-F-17

G P

Kangra

SYLLABUS
COVERAGE

Department: Mechanical Engg Subject: Advanced Manufacturing Processes
Course: Program Core Duration: 14 weeks
Total Periods: 56 Theory: _____

Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	R. mark
1	1-14	Jigs & fixtures	Definition of Jig, types of Jigs, Leaf Jig, Box & Mandrel Jig, Template Jig, plate Jig, Indexing Jig, Universal Jig, Vice Jig, General consideration in the design of Jigs, Jigs & fixtures, types of fixtures, Vice fixtures, Milling fixtures, Boring fixtures, Grinding fixtures, Basic principles of location, locating methods and devices, Basic principles of the clamping, types of clamps, Strap clamps, cam clamps, screw clamps, toggle clamps, hydraulic & pneumatic clamps	Production Technology TATA MC Grawhill CNC Machines P. K. B. S. Non conventional Machining P. K. Mishra New Age Publishing House.		
2	15-25	Plastic Processing	Processing of plastic, Moulding process, Injection Moulding, compression Moulding, Transfer moulding, Extruding, Casting, Fabrication methods - sheet forming, Blow moulding, Laminating plastic, reinforcing, applications of plastic.			
3	26-34	Modern Manufacturing Processes	Principle, Description & application of ultrasonic machining, electric discharge machining, wire cut EDM, Abrasive Jet Machining, laser beam Machining, Electro chemical Machining.			
4	35-46	CNC Milling Machine	vertical & horizontal Machining center, constructional feature, Axis identification, Electronic control system, Automatic tool changer, tool magazine, CNC programming, preparatory functions, Miscellaneous function, CNC coding			

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Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
5.	47-56	Special purpose Machines & Maintenance of Machine Tools	Concept, General elements of SPM, Productivity improvement by SPM, Principles of SPM design. Types of Maintenance, Repair Cycle analysis, repair complexity, Maintenance Manual, Maintenance record, House Keeping, Introduction to total productive Maintenance.			

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PLANNED SYLLABUS COVERAGE (Theory)

G P Kangra		Department: Mechanical Engg Subject Fluid Mechanics & Hydraulics			
SYLLABUS COVERAGE		Course Diploma (M.E.)		Duration 14 weeks	
		Total Periods 56		Theory 56	
Sl. No.	Period No.	Topic	Details	Instruction Reference	Additional Study Recommended
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2.	5-10	Fluid Pressure Pressure measurement	Fluid Pressure, Pressure head, Pressure intensity, concept of vacuum and gauge pressure, atmospheric pressure, absolute pressure, simple and differential Manometers, Bourdon pressure (simple problems on manometers only)	by S.S. Rattan fluid mechanics & hydraulic machines	
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4.	19-27	Flow through pipes	Laminar and turbulent flow; Darcy's eqn and Hazen-Williams eqn. for friction losses, minor losses in pipes, Hydraulic gradient and total gradient line, simple numerical problems to estimate losses only.		

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6.	37-46	Hydraulic Turbine	Layout of Hydroelectric power plant, features of hydro electric power plant classification of hydraulic turbines Selection of turbine on the basis of head and discharge available, construction & working principle of pelton, francis and Kaplan turbines draft tubes types and construction, concept	

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Practical Planning & Coverage Status

Department: Mechanical Engineering
 Course: Diploma (M.E)

Laboratory: Fluid mechanics & Hydraulic Machinery lab
 Subject: Fluid mechanics & Hydraulic Machinery

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4.	Determination of coefficient of discharge, coefficient of contraction and coefficient of velocity of orifice meter.	Orifice test Rig	Fluid mechanics & Hydraulic machines by R.K. Bansal	G1 02/09/2026 G2 07/09/2026	G1 G2			
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8.	Conduct performance test on centrifugal pump	Centrifugal pump test rig		G1 30/09/2026 G2 12/10/2026	G1 G2			
9.	Study a single acting reciprocating pump.	Model of reciprocating pump		G1 07/10/2026 G2 02/11/2026	G1 G2			
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