Schemes and Syllabus

(For academic session 2023-24 & onwards)

B. Voc. in Plumbing



Atal Shiksha Nagar (Kallujhanda), P.O.

Mandhala, Village- Nanakpura,

Pinjore-Nalagarh highway, District- Solan,

Himachal Pradesh- 174103

www.iecuniversity.com

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SECTION 1

Program Outcomes and Program Specific Outcomes

Program Outcomes

PO1: *Professional Knowledge:* It helps the students to train on subjects Professional Skill, Professional Knowledge, Engineering Drawing, Workshop Science & Calculation and Employ-ability Skills related to job role.

PO2: *Research/Project Orientation:* The program helps students to recognize and apply basic research methods to different training in plumbing.

PO3: Entrepreneurship Capability: It helps the students to develop their ethical and social value.

PO4: *Conformist:* Relating political, social, cultural, historical issues as affecting life of the individual, group and society.

PO5: *Critical Thinking Mindset:* Students will develop their critical thinking skills to analyze and evaluate the ways in which social scientists to examine the world.

PO6: *Leadership and Teamwork:* Student will learn about the leadership traits and conformity of a group and how to work as a team all these traits will be developed through the study.

PO7: *Professional Ethics:* It will help the students to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO8: Professional *Empowerment:* Student is entrusted to make/do project work and Extra Curricular Activities to build up confidence.

PO9: *Communication:* It will help the students the ability to communicate to other about their viewpoints and connecting peoples by exchange ideas and opinions

PO10: Social Responsibility and Environmental Conservation: It will help the students to understand the issues of environmental contexts and the importance of environment conservation and social responsibility.

PO11: *Modern Analytical Knowledge:* Inculcate among students an ability to determine modern issues and outlook for their solutions.

PO12: *Life Long Skills:* Acquire the ability to engage in independent and life-long learning in the broadest context socio-political changes.

Program Specific Outcomes

PSO1: Plan and organize the work to make job as per specification applying different types of basic fitting operation and Check for dimensional accuracy following safety precautions. [Basic fitting operation – marking, Hack sawing, Chi-selling, Filing, Drilling, Taping and Grinding etc. Accuracy: ±0.25mm]

PSO2: Perform Inner & Outer Thread cutting on Metal & Studs and thread cutting on different types of pipes & fittings accessories.

PSO3: Install and maintain different Electric pumps.

PSO4: Join fittings for different purposes on PVC pipe line.

SECTION 2

Semester wise Scheme

First Semester

Course Code	Course Title	L	T	P	СН	СР	Int. A	ESE	Total
B. Voc. Plumbing-101	Basics of Computer	4	-	-	4	4	40	60	100
B. Voc. Plumbing-102	General description of Plumbing	4	-	•	4	4	40	60	100
B. Voc. Plumbing-103	Plumbing hand tools	4	-	-	4	4	40	60	100
B. Voc. Plumbing-104	OJT-I (On Job Training NSQF Level-4)	-	-	36	36	18	300	200	500
	TOTAL	12	-	36	48	30	480	320	800

Second Semester

Course Code	Course Title	L	Т	P	СН	CP	Int. A	ESE	Total
B. Voc. Plumbing-201	Professional Communication	4	•	-	4	4	40	60	100
B. Voc. Plumbing-202	Mason's hand tools	4	-	-	4	4	40	60	100
B. Voc. Plumbing-203	Composition of water	4	-	-	4	4	40	60	100
B. Voc. Plumbing-204	OJT-II (On Job Training NSQF Level-5)	-	-	36	36	18	300	200	500
	TOTAL	12	-	36	48	30	480	320	800

Third Semester

Course Code	Course Title	L	T	P	СН	CP	Int. A	ESE	Total
B. Voc. Plumbing-301	Environment Studies	4	•	•	4	4	40	60	100
B. Voc. Plumbing-302	Theory of Carpenter works	4	•	•	4	4	40	60	100
B. Voc. Plumbing-303	Theory of Gas Welding	4	-	-	4	4	40	60	100
B. Voc. Plumbing-304	OJT-III (On Job Training)	-	-	36	36	18	300	200	500
	TOTAL	12	-	36	48	30	480	320	800

Fourth Semester

Course Code	Course Title	L	Т	P	СН	СР	Int. A	ESE	Total
B. Voc. Plumbing-401	Human Values & Ethics	4	-	-	4	4	40	60	100
B. Voc. Plumbing-402	Description of pipe works	4	-	-	4	4	40	60	100
B. Voc. Plumbing-403	Description of cocks	4	-	-	4	4	40	60	100
B. Voc. Plumbing-404	OJT-IV (On Job Training NSQF Level-6)	-	-	36	36	18	300	200	500
	TOTAL	12	-	36	48	30	480	320	800

Fifth Semester

Course Code	Course Title	L	T	P	СН	СР	Int. A	ESE	Total
B. Voc. Plumbing-501	Disaster Management	4	-	-	4	4	40	60	100
B. Voc. Plumbing-502	Domestic drainage system	4		-	4	4	40	60	100
B. Voc. Plumbing-503	Industrial drainage system	4	-	-	4	4	40	60	100
B. Voc. Plumbing-504	OJT-V (On Job Training)	-	-	36	36	18	300	200	500
	TOTAL	12	-	36	48	30	480	320	800

Sixth Semester

Course Code	Course Title	L	T	P	СН	СР	Int. A	ESE	Total
B. Voc. Plumbing-601	Current Affairs	4	-	-	4	4	40	60	100
B. Voc. Plumbing-602	Description of sanitary fittings	4	-	1	4	4	40	60	100
B. Voc. Plumbing-603	Description of Billing in plumbing works	4		-	4	4	40	60	100
B. Voc. Plumbing-604	OJT-VI (On Job Training NSQF Level-7)	-	-	36	36	18	300	200	500
	TOTAL	12	-	36	48	30	480	320	800