

Enrich your career
through world class
learning





ADVANCED SOLUTIONS FOR TECHNICAL SERVICES (ASTS), the leader in Piping Engineering Design Institutions and the technical solutions providers for Oil & Gas, Power Plant, Marine and Offshore Industries is a fast emerging company with a strong aptitude to render project / engineering consultancy in power plant engineering, Marine Designing and power & process plant areas.

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ASTS

Post Graduate Diploma Courses offered by ASTS - as an Authorized Training Center for AVEVA PDMS, AVEVA MARINE, AUTOCAD & TEKLA, - will equip the students with professional competence to meet international job requirements.

ASTS courses impart to the students in-depth knowledge and understanding of the industry and assist them to build a bright career. ASTS follows a quality management system that meets the requirements of ISO 9001:2008. Courses at ASTS are dealt with by ASTS chartered and professional engineers, who adhere to strict training

standards ensuring top quality content and delivery every time.

The syllabus is charted by ASTS Technical Division and experts in the engineering industry who prepare and present our courses following AVEVA, Autodesk & TEKLA's strict Industrial training standards. ASTS institution and courses are monitored and approved by the Central Govt Agency named STED COUNCIL (Scientific and Technical Education Development Authority), which provides course certificates as per the rules and regulations from India Government.

COURSE DETAILS

Name	:	PG Diploma In Oil & Gas Piping Engineering Design & Analysis
Eligibility	:	Freshers or Experienced Diploma / BE / BTech Holders or students in Chemical / Mechanical / Production / Instrumentation Engg.
Duration	:	6 Months (Including One Month Internship and Live Project)
Class Timings	:	4 Hrs in a Day and 5 Days in a Week
Accommodation Facility	:	Paid Accommodation facility with homely food available.

SOFTWARE USED

AutoCAD	:	Drawing Creation (P&ID, PFD, Layouts, and all Fabrication Drawings)
AVEVA PDMS 12.1	:	Plant Design Management System for Modelling and Designing
CAESAR-II	:	Study of stress analysis system using CAESAR II (Pipe supports & loop calculations)
Primavera	:	For Project Management

CERTIFICATION

PG Diploma Certificate	:	Govt of INDIA Technical Education Department
AVEVA PDMS	:	AVEVA Information Technologies Pvt Ltd
CAESAR-II	:	Authorized Training Certificates
AutoCAD	:	Autodesk India
Primavera	:	Authorized Training Certificates

AUTHORISED
TRAINING PARTNER





Internship in a Reputed Core Sector University /Govt. of India Organisations



Live Projects in Project Division



Industrial /Plant visit



Govt of India Certifications



Certificates can be used for Embassy Attestation



Internship Certificates from Reputed Core Sector University / Govt. of India Organisations



Personality and career guidance classes added in the curriculum



AVEVA PDMS Certificates from AVEVA Information Technologies Pvt. Ltd.



Autocad Certificate from Autodesk India



100% Placement Support

AFFILIATED AND ACCREDITED BY



International Accreditation Forum



Tekla Centre of Excellence



Scientific and Technical Education Development Council



American Society for Mechanical Engineers



Society of Piping Engineers and Designers



United Kingdom Accreditation Service



International Institute of Piping Engineering & Design



International Organization for Standardization

SYLLABUS - POST GRADUATE DIPLOMA

MODULE 1

- INTRODUCTION TO OIL & GAS INDUSTRY • CRUDE OIL EXTRACTION • BASIC ENGINEERING (RECAP)
- FUNDAMENTALS OF PIPING ENGINEERING • COES AND STANDARDS FOR OIL & GAS INDUSTRY
 - WELDING & NDT METHODS • QA, QC & HSE

SOFTWARES : MICROSOFT WORD, MICROSOFT EXCEL

MODULE 2

- BASIC ENGINEERING GRAPHICS • DRAFTING AND REPORTS • 2D DRAFTING • ISOMETRIC DRAWINGS
- MATERIAL TAKE OFF (MTO) • FLOW DIAGRAM • BFD, PFD, UFD • LINE NUMBERING • DRAWING EXTRACTION • FABRICATION & ERECTION DRAWINGS • LAYOUT PREPARATION • DB LISTING • REPORT GENERATION

SOFTWARES : AUTOCAD AND BASICS OF AVEVA PDMS

MODULE 3

- PLANT DESIGN MANAGEMENT • DETAILING OF ASME 31.3 • PROCESS MECHANICAL EQUIPMENT (STATIC & ROTARY) • PIPING MATERIAL SPECIFICATION • SELECTION OF MATERIALS (ASTM) • PIPING COMPONENTS & FITTINGS • FLOW DIAGRAMS • HYDRAULIC DESIGN OF PIPING SYSTEM • PIPE SUPPORTS • PROTECTION OF PIPING AND INSULATIONS • WELDING TECHNOLOGY • CRITICAL PIPING, COLOR CODING, MTO GENERATION

SOFTWARES : AVEVA PDMS

MODULE 4

- ANALYSIS • DETAILED HYDRAULIC DESIGN • PIPE SUPPORTS • PIPE DESIGN CALCULATIONS
- ENGINEERING PROCUREMENT CONSTRUCTION • LOAD CASES • FORMULA IN STRESS ANALYSIS
 - STATIC ANALYSIS • ISOMETRIC EXTRACTION

SOFTWARES : CAESAR-II

MODULE 5

- PROJECT MANAGEMENT LIFE CYCLE • OVERVIEW AND NAVIGATION • CREATING A PROJECT • CREATING A WORK BREAKDOWN STRUCTURE • CREATING RELATIONSHIPS • SCHEDULING • ASSIGNING CONSTRAINTS • UNDERSTANDING ROLES AND RESOURCES • PROJECT WORKSPACE • OPTIMIZING THE PROJECT PLAN • EXECUTING THE PROJECT PLAN • ANALYZING THE UPDATED PROJECT • REPORTING • CASE STUDIES

SOFTWARES : PRIMAVERA

MODULE 6

- ASSIGNMENTS • LIVE PROJECT WORKOUT • SEMINAR • IINTERNSHIP • SITE VISIT



ASSOCIATED PARTNERS



TECHNICAL TRAINING DIVISIONS

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PROJECT DIVISION

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