

SPECIALTY CODE:

SPECIALTY NAME:

Professional Subjects per specialty for intermediate **LEVEL**

s/N	Module	Acronym/ specialty	Subject code	No of Papers
Specialty : Manufacturing Mechanics				
Professional subject			Manufacturing processes	3
			Materials	3
			Mechanical Drawing	2
Related professional subjects			Mathematics	
			Engineering science	
			Computer science	
Other Subjects			English language	
			French language	
			Hygiene ,Safety and environment	
			Entrepreneurship	
Specialty : Sheet Metal				
Professional subject			Workshop processes and material	3
			Engineering drawing	3
			Practical work assessment	3
Related professional subjects			Mathematics	
			Engineering science	
			Computer science	
Other Subjects			English language	
			French language	
			Hygiene ,Safety and environment	
			Entrepreneurship	
Specialty : Welding fabrication				
Professional subject			Workshop processes and material	3
			Trade drawing	3
			Practical work assessment	3
Related professional subjects			Mathematics	
			Engineering science	
			Computer science	
Other Subjects			English language	
			French language	
			Hygiene ,Safety and environment	
			Entrepreneurship	
Specialty : Automobile repairs mechanics				
Professional subject			Material technology and processes	3
			Electrical and electronic technology	3
			Mechanical technology	3
Related professional subjects			Technical drawing	
			Engineering sciences	
			Mathematics	
Other Subjects				
Specialty : Automobile body work and painting				

Professional subject	Motor vehicle technology	3
	Mechanical construction and development	3
	Mechanical and paint technology	3
Related professional subjects	Engineering science	
	Technical drawing	
	Mathematics	
Other Subjects		

Specialty : Building construction

Professional subject	Construction processes and building practice	3
	Building construction drawing	2
Related professional subjects	Surveying, soil mechanics and materials	3
	Mathematics	
Other Subjects	Engineering science	
	Information and communication technology	
	Hygiene ,Safety and environment	
	Entrepreneurship	

Specialty : Plumbing installation system

Professional subject	Drawing	2
	Technology	3
Related professional subjects	Plumbing maintenance	3
	Mathematics	
Other Subjects	Engineering science	
	Information and communication technology	
	Hygiene ,Safety and environment	
	Entrepreneurship	

Specialty : Carpentry and joinery

Professional subject	Drawing	2
	Carpentry	3
	Joinery	3
Related professional subjects	Mathematics	
	Engineering science	
	Computer science	
Other Subjects	English language	
	French language	
	Hygiene ,Safety and environment	
	Entrepreneurship	
	Law and government	

Specialty : Electrical power and installation

Professional subject	Electrical machines	3
	Electrical analogue and digital control	3
	Electrical technology and diagram	3
Related professional subjects	Engineering science	
	Mathematics	

	subjects			Engineering drawing	
	Other Subjects				
Specialty : Electronics					
	Professional subject			Electronic circuits	3
				Electronic systems	3
				Photovoltaic systems	3
	Related professional subjects			Engineering science	
				Mathematics	
				Engineering drawing	
	Other Subjects				
Specialty : Air conditioning and ventilation					
	Professional subject			Refrigeration system	3
				Air conditioning system	3
				Realization/ repair /welding	3
	Related professional subjects			Engineering science	
				Mathematics	
				Engineering drawing	
	Other Subjects				
Specialty : Bespoke tailoring					
	Professional subject			Textile technology and equipment	
				Fashion and fabric design	
				Pattern making and garment construction	
	Related professional subjects			Health , Safety and environment	
				ICT	
				Entrepreneurship	
	Other Subjects			Mathematics	

Professional Subjects per specialty for Advanced level

s/N	Module	Acronym/ specialty	Subject code		No of Papers
Specialty : Manufacturing Mechanics					
	Professional subject			Production processes	3
				Materials	3
				Industrial Automation and Numerical control machining	3
				Mechanical design	3
	Related professional subjects			Mathematics	
				Engineering science	
				ICT	
Specialty : Metal work and industrial piping					
	Professional subject			Workshop processes and material	3
				Industrial drawing	3
				Marking out (development)	3
				Practical work assessment	
	Related professional subjects			Mathematics	
				Engineering science	
				Applied mechanics	
				Entrepreneurship	
Specialty : Automobile construction and maintenance					
A- Light vehicle maintenance					
	Professional subject			Maintenance of mechanical systems	3
				Electrical and electronic systems	3
				Engine management systems	3
				Applied mechanics and mechanical construction	3
	Related professional subjects			Automation	
				Engineering science	
				Mathematics	
				ICT	
Specialty : Automobile construction and maintenance					
B- Heavy duty vehicle maintenance					
	Professional subject			Diesel engine technology	3
				Electrical and electronic systems	3
				Chassis systems	3
				Applied mechanics and mechanical construction	3
	Related professional subjects			Automation	
				Engineering science	
				Mathematics	
				ICT	
Specialty : Maintenance of electromechanical equipment					

	Professional subject		Maintenance of mechanical, pneumatics and hydraulic systems	3
			Maintenance of automated production systems	3
			Maintenance of electrical ,electronic and refrigeration systems	3
			Mechanical technology and fluid power	3
	Related professional subjects		Mathematics	
			Engineering science	
			Computer science	
Specialty : Building construction (F4 BA)				
	Professional subject		Applied mechanics	3
			Project management	2
			Construction drawing	3
			Building technology and practice	3
	Related professional subjects		Mathematics	
			Engineering science	
			Surveying and soil mechanics	3
			Computer science	
Specialty : Public work (F4 TP)				
	Professional subject		Applied mechanics	2
			Project management	3
			Construction drawing	3
			Building technology and practice	3
	Related professional subjects		Mathematics	
			Engineering science	
			Surveying and soil mechanics	3
			Computer science	
Specialty : Architectural draftsmanship (F4 BE)				
	Professional subject		Applied mechanics	3
			Project management	3
			Construction processes and soil mechanics	3
			Drawing and architectural model	3
	Related professional subjects		Mathematics	
			Surveys	
			Computer sciences	
			Engineering science	
Specialty : Surveying				
	Professional subject		Survey technology /Digital processing	3
			Special techniques	2
			Topographical drawing and CAD(covadis)	2
			Land survey law	2
	Related professional subjects		Entrepreneurship	
			Mathematics	
			Engineering science	
			ICT	
Specialty : Plumbing and hydraulic installation systems				
	Professional subject		Drawing	2
			Fluid mechanics	3

			Plumbing networks installation	3
Related professional subjects			Mathematics Engineering sciences ICT	
Specialty : Forestry management and techniques				
Professional subject			Sustainable management of forest resources	3
			Forest operations	3
			Forest sciences	3
			Forst topography and cartography	
Related professional subjects			Engineering science Mathematics ICT	
Specialty : Wood processing				
Professional subject			Log processing	3
			Wood preservation and seasoning	3
			Regulation	2
			Wood grading and wood study as material	
Related professional subjects			Mathematics Engineering science ICT Maintenance and command of equipment	
Specialty : Wood cabinet-making				
Professional subject			Furniture Designs /Drawing	3
			Construction Processes	3
			Finishing and restoration techniques	3
			Production management	2
Related professional subjects			Mathematics Engineering science Entrepreneurship Applied mechanics	
Specialty : Electrical power and installation				
Professional subject			Power electronics	3
			Machine control	3
			Design of electrical installation	3
			Circuit analysis	2
Related professional subjects			Applied mechanics Engineering sciences Mathematics Computer science	
Specialty : Electronics				
Professional subject			Communication systems	3
			Fundamental and power electronics	3
			Design of electronic systems	3
			Microprocessor and computer technology	3
Related professional subjects			Electrical machines Mathematics Engineering sciences Applied mechanics	2
Specialty : Installation and maintenance of electronic systems				

Professional subject		Audio –visual system	3
		Alarm system	3
		Network and telecommunication system	3
		Electronic diagram	2
Related professional subjects		Mathematics	
		Engineering sciences	
		Computer science	

Specialty : Heat –Ventilation and air conditioning

Professional subject		Heat transfer	3
		Ventilation/Air conditioning	3
		Air conditioning and refrigeration system	3
		Electronic/ Electrical technology	3
Related professional subjects		Mathematics	
		Engineering science	
		Food processing	

Specialty : Cosmetic and pharmacology

Professional subject		Applied biochemistry	2
		Medical microbiology	3
		Cosmetic and pharmacology process	3
		Processing engineering	2
Related professional subjects		Analytical and physical chemistry	3
		Mathematics	
		Engineering sciences	

Specialty : Mining and petroleum

Professional subject		Mining process	2
		Petroleum process	2
		Processing engineering	2
		Mining and petroleum production	3
Related professional subjects		Analytical and physical chemistry	3
		Mathematics	
		Engineering sciences	

Specialty : Petro chemistry and bio products

Professional subject		Organic industrial chemistry	3
		Applied biochemistry	2
		Processing engineering	3
		Petroleum and bio products production	3
Related professional subjects		Analytical and physical chemistry	3
		Mathematics	
		Engineering sciences	

Specialty : Clothing industry

Professional subject		Textile technology and equipment	
		Fashion and fabric design	
		Pattern making and garment construction	
		Work organization	
Related		Mathematics	

	professional			Computer science	
	subjects			Engineering sciences	