डिजीईटी नवी दिल्ली यांचे NSQF सुधारीत Ann-B अभ्यासक्रमानुसार

शिल्प कारागीर प्रशिक्षण योजना

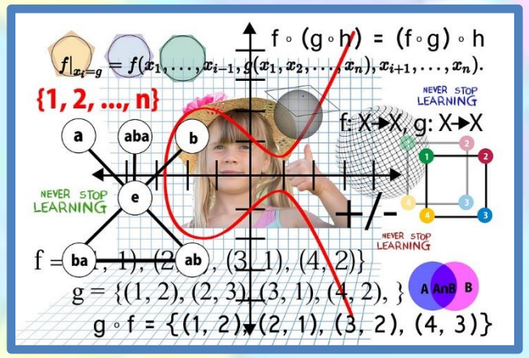
औद्योगिक प्रशिक्षण संस्था

कार्यशाळा गणित व शास्त्र (Workshop Cal.& Science)

अभ्यासक्रम पाठ नियोजन(Splitup Syllabus)

द्वितीय वर्ष (Second Year)

अभियांत्रिकी व्यवसाय



औद्योगिक प्रशिक्षण संस्था नाव :-

निदेशकाचे नाव :-

Splitup Syllabus For Workshop Calculation and Science For 2nd Year
(Show the dates only which syllabus is included for the trade-Refere Ann-B For Further details

Sr. No.	Title of the Exercise	2 Year Duration Trades													
		Fitter (NSQF Level - 5)		Turner (NSQF Level - 5)		Machinist (NSQF Level - 5)		Machinist Grinder (NSQF Level - 5)		Mechanic Motor Vehicle (NSQF Level - 5)		Operator Advanced Machine Tool (NSQF Level - 5)		Mechanic Machine Tool Maintenance (NSQF Level - 5)	
		Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Proposed	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken
I	**Friction**														
1	Friction - Advantages and disadvantages, Laws of friction, co-efficient of friction, angle of friction, simple problems related to friction														
2	Friction - Lubrication														
3	Friction - Co- efficient of friction, application and effects of friction in workshop practice														
II	**Centre of Gravity**														
1	Centre of gravity - Centre of gravity and its practical application														
III	**Area of cut out regular surfaces and area of irregular surfaces**														

Sr. No.	Title of the Exercise	2 Year Duration Trades													
		Fitter (NSQF Level - 5)		Turner (NSQF Level - 5)		Machinist (NSQF Level - 5)		Machinist Grinder (NSQF Level - 5)		Mechanic Motor Vehicle (NSQF Level - 5)		Operator Advanced Machine Tool (NSQF Level - 5)		Mechanic Machine Tool Maintenance (NSQF Level - 5)	
		Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Proposed	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken
1	Area of cut out regular surfaces - circle, segment and sector of circle														
2	Related problems of area of cut out regular surfaces - circle, segment and sector of circle														
3	Area of irregular surfaces and application related to shop problems														
IV	**Algebra**														
1	Algebra - Addition , subtraction, multiplication & divisio n														
2	Algebra - Theory of indices, algebraic formula, related pr oblems														
V	**Elasticity**														
1	Elasticity - Elastic, plastic materials, stress, strain and thei r units and young's modulus														
2	Elasticity - Ultimate stress and working stress														

Sr. No.	Title of the Exercise	2 Year Duration Trades													
		Fitter (NSQF Level - 5)		Turner (NSQF Level - 5)		Machinist (NSQF Level - 5)		Machinist Grinder (NSQF Level - 5)		Mechanic Motor Vehicle (NSQF Level - 5)		Operator Advanced Machine Tool (NSQF Level - 5)		Mechanic Machine Tool Maintenance (NSQF Level - 5)	
		Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Proposed	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken
VI	**Heat Treatment**														
1	Heat treatment and advantages														
2	Heat treatment - Different heat treatment process – Hardening, tempering, annealing, normalising and case har dening														
VII	**Profit and Loss**														
1	Profit and loss - Simple problems on profit & loss														
2	Profit and loss - Simple and compound interest														
VIII	**Estimation and Costing**														
1	Estimation and costing - Simple estimation of the requirement of material etc., as applicable to the trade														
2	Estimation and costing - Problems on estimation and costing														

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Sr. No.	Title of the Exercise	2 Year Duration Trades																			
		Tool & Die Maker (Dies & Moulds) (NSQF Level - 5)		Tool & Die Maker (Press Tools, Jigs & Fixtures) (NSQF Level - 5)		Refrigeration and Air Conditioning Technician (NSQF Level - 5)		Draughtsman (Civil) (NSQF Level - 5)		Draughtsman Mechanical (NSQF Level - 5)		Surveyor (NSQF Level - 5)		Attendant Operator (Chemical Plant) (NSQF Level - 5)		Electrician (NSQF Level - 5)		Electronics Mechanic (NSQF Level - 5)		Information and Communication Technology System Maintenance (NSQF Level - 5)	
		Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken
I	**Friction**																				
1	Friction - Advantages and disadvantages, Laws of friction, co-efficient of friction, angle of friction, simple problems related to friction																				
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1	Algebra - Addition , subtraction, multiplication & division																				

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		Tool & Die Maker (Dies & Moulds) (NSQF Level - 5)		Tool & Die Maker (Press Tools, Jigs & Fixtures) (NSQF Level - 5)		Refrigeration and Air Conditioning Technician (NSQF Level - 5)		Draughtsman (Civil) (NSQF Level - 5)		Draughtsman Mechanical (NSQF Level - 5)		Surveyor (NSQF Level - 5)		Attendant Operator (Chemical Plant) (NSQF Level - 5)		Electrician (NSQF Level - 5)		Electronics Mechanic (NSQF Level - 5)		Information and Communication Technology System Maintenance (NSQF Level - 5)	
		Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken	Date Proposed	Date Taken
2	Algebra - Theory of indices, algebraic formula, related problems																				
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1	Elasticity - Elastic, plastic materials, stress, strain and their units and young's modulus																				
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		Information Technology (NSQF Level - 5)		Instrument Mechanic (NSQF Level - 5)		Electroplater (NSQF Level - 5)		Wireman (NSQF Level - 4)		Painter (General) (NSQF Level - 5)	
		Date Taken	Date Proposed	Date Proposed	Date Taken	Date Taken	Date Proposed	Date Proposed	Date Taken	Date Taken	Date Proposed
I	**Friction**										
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		Date Taken	Date Proposed	Date Proposed	Date Taken	Date Taken	Date Proposed	Date Proposed	Date Taken	Date Taken	Date Proposed
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1	Elasticity - Elastic, plastic materials, stress, strain and their units and young's modulus										
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