SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : CH 310 SUBJECT NAME : Management & Entrepreneurship

FACULTY NAME : VINOD KUMAR JAISWAL DESIGNATION : LECTURER (PLASTIC TE					(FLASTIC TECH.)
TOPIC	PRACTICAL CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Principles of Management : Management, administration and organisation, difference between them.	2	August			
Scientific management : Meaning, characteristics, object and advantage: Taylor's scientific management	2	September			
Fayol's principles of management	2	September			
Functions of management Types of ownership	2	September			
Types of ownership, sole trading, partnership, joint stock, co-operative and public enterprise	2	September			
Types of organisation, different types and their charts	2	October			
Importance of human relation professional ethics Need for leadership, leadership qualities Motivation	2	October			
Resources Development : Introduction, object and functions of human resource development department	2	October			
Recruitment, sources and methods of selection, need for effective training, method of training, duties of supervisor / Formen, Role of HRD in industries	2	November			
Wages and Incentives : Definition and requirements of a good wage system methods of wage payment	2	November			
Wage incentives - type of incentive, difference in wage incentive and bonus. incentive to supervisor	2	November			
Material Management : Purchasing Functions and duties of purchase department organisation of purchase department, methods of purchasing, purchase order, contracts	2	December			
legality of contracts types of contracts i.e. piece work contract, lumpsum contract, item rate contract, percentage contract, merits and limitation of each contract system, departmental execution of works.	2	December			
Rate contract - D.G.S & D and C.S.P.O. tender, necessity, types of tenders, tendering procedure, earnest money and security money	2	December			
Store and store keeping: Functions and duties of store department, location and layout of store, bin cards, store ledger.	2	January			
receipt and issue procedure of materials, physical verification of stores, disposal method of unserviceable articles and protection of stores	2	January			
Sales : function and duties of sales department sales promotion advertisement service after sales	2	January			
Financial Management : Function and duties of finance department Brief idea of journal, ledger, trial balance, trading account, profit and loss account, balance sheet	2	January			
Cheques (crossed and bearer), draft, promissory note, letter of credit, brief idea of cost accounting. Numerical problems	2	February			
Marketing Management : Concept of Marketing, Problems of Marketing Pricing policy Distribution channels and methods of marketing	2	February			

Entranga and in .	0	Гаванава		
Entrepreneurship:	2	February		
Entrepreneurship and Entrepreneur				
Need of Employment and Opportunities.				
Essential Characteristics of a good Entrepreneur				
Industrial Policy.	2	February		
Classification of industries- Tiny, small scale,				
Medium scale, Large scale, Handicraft, Ancillary				
Type of industries- Production, Job based &				
service				
Entrepreneurial Development :	2	March		
Product identification/ selection				
Site selection				
Plant layout				
Institutional support needed				
Pre-market surve				
Entrepreneurship Support System:	2	March		
Role of District Industries Centre in setting up	2	iviaicii		
.				
industry	•			
Function of NSIC, SISI, NISIET, NRDC, SSIC,	2	March		
SIDO, NMTC, KVIC, RSMML.				
Role of state finance corporation, state electricity				
Setting up SSI:	2	March		
Registration of SSI				
Allotment of land by RIICO				
Preparation of project report				
Structure of organisation				
Building construction	2	April		
Establishment of machines	_	, ,,,,,,,,		
Tax System and Insurance :				
Idea of income tax, sales tax, excise duty and				
custom duty				
Industrial and fire insurance, procedure for	0	A:1		
industrial insurance.	2	April		
Financial Sources for SSI :				
Various institutions providing loans for industries				
Various types of loans				
Subsidies				
Labour Legislation and Pollution Control Acts :				
Industrial acts: factory act 1948				
Workmen's compensation act 1923				
Apprentices act 1961				
Water pollution contract act 1974 and 1981	2	April		
Air pollution contract act 1981				
Environmental protection act 1986				
Forest (animal conservation act 1972)				
Pollution control provisions in motor vehicle act.				
Project Report :	2	April		
Procedure of preparing a project report				
Format of project report				
Preparation of project report for some SSI items				
ISO: 9000 Series of Quality System:				
Definition of few important terms related to ISO				
quality system				
Various models for quality assurance in ISO :				
9000 series				
Various elements of ISO: 9001 model (20 points)				
Benefits by becoming an ISO : 9000 company				
Introduction to total quality management (TQM)				
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TOTAL	60			
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SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : PL 204 SUBJECT NAME : ADDITIVES AND COMPOUNDING OF PLASTICS

FACULTY NAME : VINOD KUMAR JAISV	VAL		DES	IGNATION: LECTURER	(PLASTIC TECH.)
TOPIC	LECTURE CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Introduction of compounding Purpose of compounding	2	August	24/08/2015 27/08/2015	N/A	Power point presentation
Types of compounding ingredients Industrial importance of compounding	2	September	31/08/2015 07/09/2015	N/A	Power point presentation
Introduction of antioxidants Types of antioxidants	2	September			
Types of antioxidants Auto-oxidation action	2	September			
Physical and chemical requirements for antioxidants	2	September			
Metal Deactivators: Introduction Mechanism of inhibition by metal deactivators	2	October			
Chemical structures Stabilization of polyolefins in contact with copper	2	October			
Stabilizers: Light stabilizer & Heat Stabilizers	2	October			
Photo-degradation of synthetic polymers Mechanism of U.V. stabilization	2	November			
Stabilization for U.V. absorbers, Quenchers, Hydroperoxide decomposers and free radical	2	November			
Heat Stabilizers for PVC Various type of PVC stabilizers such as inorganic	2	November			
Influence of heat stabilizers on weather and light stability	2	December			
Plasticizers: Introduction Types of plasticizers	2	December			
Theory, methods and steps in plasticization	2	December			
Effects of plasticizers on physical properties such as hardness, tensile strength, elongation, low	2	January			
Fillers and Reinforcements: Introduction Properties of filed and reinforced plastics	2	January			
Various types of fillers and reinforcements and their economic importance.	2	January			
Chemical Blowing Agents: Introduction Required properties	2	January			
Types of blowing agents such as azo compounds, hydrazine derivatives, semicarbazides and	2	February			
Extrusion of foamed P.E. Expandable P.S. beads	2	February			
Colourants: Introduction, Pigments and dyes General properties of coloured plastic such as	2	February			
Various types of colourants such as titanium dioxide, carbon black, inorganic colour pigments	2	February			
Introduction to other additives: Lubricants	2	March			
Processing Aids	2	March			
Flame Retardants	2	March			

Antistatic agents	2	March		
Constructional details and working of mixing and blending equipments used for compounding	2	April		
Internal mixer (banbury minxer)	2	April		
Ribbon blender Dry colour blender	2	April		
Two roll mixing mill Compounding extruder	2	April		
TOTAL	60			•

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : PL 209 SUBJECT NAME : PLASTIC PROCESSING - I

FACULT NAME . VINOD KUMAR JAIST	DESIGNATION LECTURER (PLASTIC TECH.)				
TOPIC	LECTURE CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Introduction to Plastic Processing Techniques: Injection Moulding, Extrusion	2	August	26/08/2015 31/08/2015	N/A	
Blow Moulding, Thermoforming, Calendering, Rotational Moulding,	2	September		N/A	
Compression Moulding, Transfer Moulding, Fibre Spinning, Reaction Injection Moulding etc.	2	September			
Injection Moulding Processes: Construction and working of various types of	2	September			
Automatic injection moulding machine Plunger and screw type injection-moulding	2	September			
Elements of injection moulding machine: Injection unit	2	October			
Elements of injection moulding machine: Clamping unit	2	October			
Elements of injection moulding machine: Mould Machine Controls	2	October			
Moulding cycles Nozzles	2	November			
Mould temperature control Specifications of machines	2	November			
Moulding defects and their remedies	2	November			
Reaction injection moulding: Introduction, Materials used	2	December			
Reaction injection moulding: Process and equipments used	2	December			
Extrusion Concepts : Introduction, Extruders and their classification	2	December			
Single screw extruders Multiple screw extruders	2	January			
Extruder components: Screws and their types	2	January			
Extruder components: Barrel, Hopper, Die, Adapter etc.	2	January			
L/D ratio, Compression ratio	2	January			
Extruder performance and their curves: Screw characteristic curves	2	February			
Cooling and take-off systems Co-extrusion	2	February			
Static, drag and pressure flow	2	February			
Manufacturing of Blown films	2	February			
Manufacturing of pipe and tubes	2	March			
Manufacturing of Wire and cable coating	2	March			
Manufacturing of Wire and cable coating	2	March			

Manufacturing of Sheets and Profiles	2	March		
Extrusion: Process defects and their remedies	2	March		
Construction and Working of: Scrap Grinder	2	April		
Construction and Working: Hot Stamping Machine	2	April		
Revision of Important Topics	2	April		
Discussion on previous year question papers	2	April		
TOTAL	60			

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : PL 209 (Practical) SUBJECT NAME : PLASTIC PROCESSING - I (PRACTICAL)

FACULTY NAME . VINOD KUMAR JAISWAL DESIGNATION . LECTURER (PLASTIC TECH					
TOPIC	PRACTICAL CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
General Discussion	2	August			
To produce articles on 0.5 OZ hand injection moulding machine	2	September			
To produce articles on 0.5 OZ hand injection moulding machine	2	September			
To produce articles on 1.0 OZ hand injection moulding machine	2	September			
To produce articles on 1.0 OZ hand injection moulding machine	2	September			
To produce articles on 1.5 OZ hand injection moulding machine	2	October			
To produce articles on 1.5 OZ hand injection moulding machine	2	October			
To produce articles on 2.0 OZ hand injection moulding machine	2	October			
To produce articles on 2.0 OZ hand injection moulding machine	2	November			
To study semi automatic vertical injection moulding machine (capacity 60 grams) and	2	November			
To study semi automatic vertical injection moulding machine (capacity 60 grams) and	2	November			
To make articles on fully automatic injection moulding machine (capacity 90 grams).	2	December			
To make articles on fully automatic injection moulding machine (capacity 90 grams).	2	December			
To make articles on fully automatic injection moulding machine (capacity 90 grams).	2	December			
To make LDPE blown film on blown film extruder	2	January			
To make LDPE blown film on blown film extruder	2	January			
To make LDPE blown film on blown film extruder	2	January			
To make flexible pipe/tube on extrusion plants and checks its qualities.	2	January			
To make flexible pipe/tube on extrusion plants and checks its qualities.	2	February			
To make flexible pipe/tube on extrusion plants and checks its qualities.	2	February			
To study Bag cutting and sealing machine and make LDPE Bags of different lengths.	2	February			
To study Bag cutting and sealing machine and make LDPE Bags of different lengths.	2	February			
To make Diary covers and purse of PVC sheets on high frequency PVC welding machine.	2	March			
To make Diary covers and purse of PVC sheets on high frequency PVC welding machine.	2	March			

To make Diary covers and purse of PVC sheets on high frequency PVC welding machine.	2	March		
Stamping on Plastic Sheets by Hot Stamping Machine	2	March		
To Grind the Waste Plastics on Scrap Grinder and find out its efficiency.	2	April		
To Grind the Waste Plastics on Scrap Grinder and find out its efficiency.	2	April		
Review	2	April		
Review	2	April		
TOTAL	60			

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : PL 305 SUBJECT NAME : FINISHING & DECORATION OF PLASTICS

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TOPIC	LECTURE / PRACTICAL CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Surface Analysis : Introduction	2	August			
Surface analysis techniques: light microscopy, scanning electron microscopy	2	September			
X-ray photoelectron spectroscopy, infrared spectroscopy and laser raman spectroscopy	2	September			
Surface modification by washing, solvent cleaning, abrasion, flame treatment, corona	3	September			
Testing of treatment levels	1	September			
Surface Finishing: Deflashing, Filing, Tumbling	2	October			
Surface Finishing: Grinding and sanding, Polishing, Ashing, Buffing	2	October			
Machining of Plastics: Introduction	2	October			
Drilling and reaming Tapping and threading	2	November			
Turning and milling Sawing	2	November			
Blanking and die cutting Laser machining	2	November			
Embossing: Introduction Cast embossing	2	December			
Pressure embossing Roll embossers : Nip pressure and roll deflection,	2	December			
Embossing processes : Flat press embossing, vacuum embossing, Dielectric and high frequency	2	December			
Ultrasonic embossing, Chemical embossing Surface texturing	2	January			
Surface Coating and Printing: Dip and flow coating	2	January			
Spray painting :Air atomization, Airless atomization,	2	January			
Rotational atomizers, Paints for plastics	2	January			
Screen-printing Gravure printing	2	February			
Laser Marking: Introduction	3	February			
Laser Marking: Applications	1	February			
Electrolytic Plating: Introduction	2	February			
Electrolytic plating	2	March			
Abrasion Resistant Coating : Thermally cured coating	2	March			
Radiation cured coating	2	March			
Welding and Sealing of Plastics: Introduction	2	March			

Thermal sealing Hot gas welding	2	April		
Hot plate welding Induction welding	2	April		
Spin (friction) welding Vibration welding	2	April		
Revision of Important Topics & Discussion on previous year question papers	2	April		
TOTAL	60			

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : PL 307 SUBJECT NAME : POLYMER FOAMS & ADHESIVES

TOPIC CLASSES TO COVERD TO THE TOPIC TUDENTS RELATIONS TO THE TOPIC TUDENTS RELATIONS TUDENTS RELATIONS TO THE TOPIC TUDENTS RELATIONS TUDENTS RELATIONS TO THE TOPIC TUDENTS RELATIONS	FACULTY NAME : VINOD KUMAR JAISV		DESIGNATION : LECTURER (PLASTIC TECH.)			
Introduction of various types of Adhesives 2 September Function of adhesives 2 September Properties of surfaces and interfaces 2 September Properties of surfaces and interfaces 2 September Properties of surfaces and interfaces 2 September Theory of adhesion and adhesive action 2 September Adhesive joints Composition Rigid and flexible joints Composition Adhesive joints Condition of commonly used adhesives Coctober Coctober Coctober Coctober Anderive Anovember Hot melt adhesives 2 November Acrylic base adhesives 2 November Acrylic base adhesives 2 November Review 2 December Review 2 December Foams: Introduction to rigid and flexible foams 2 December Properties of cellular plastics 2 January Chemistry and physical formation 2 January Foaming ingredients 2 January Foaming ingredients on physical properties of cellular plastic Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (figid)	TOPIC	CLASSES REQUIRED TO COVER	WHICH THE TOPIC WILL BE	DATE OF COVERING OF THE	COVERING THE TOPIC	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Function of adhesives 2 September Properties of surfaces and interfaces 2 September Theory of adhesion and adhesive action 2 September Adhesive joints Rigid and flexible joints Composition and formulation of commonly used adhesives 2 October Activated adhesives 2 November Hot melt adhesives 2 November Natural rubber adhesives 2 November Natural rubber adhesives 2 December Review 2 December Foams: Introduction to rigid and flexible foams 2 December Properties of cellular plastics 2 January Chemistry and physical formation 2 January Effect of foaming ingredients on physical properties of cellular plastic Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (fligid)		2	August			
Properties of surfaces and interfaces 2 September Theory of adhesion and adhesive action 2 September Adhesive joints 2 October Rigid and flexible joints Composition and formulation of commonly used adhesives Composition and formulation of commonly used adhesives 2 October Sealants 2 November Hot melt adhesives 2 November Acrylic base adhesives 2 November Review 2 December Review 2 December Review 2 December Properties of cellular plastics 2 January Feaming ingredients 0 physical properties of cellular plastic 2 January Effect of foaming ingredients on physical properties of cellular plastic 2 February Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) Manufacturing process of Polyurethane foams (flexible)	Interaction between bodies	2	September	_		
Theory of adhesion and adhesive action 2 September Adhesive joints 2 October Rigid and flexible joints Composition and formulation of commonly used adhesives Composition and formulation of commonly used adhesives 2 October 3 October 4 October 5 October 6 October 7 October 8 October 8 October 9 October 9 October 1 October 1 October 1 October 1 October 1 October 2 November 1 October 2 November 2 November 1 October 2 November 2 November 2 November 2 November 2 December 8 October 9 October 1 October 1 October 2 November 2 November 2 November 1 October 2 November 2 November 2 December 3 October 4 October	Function of adhesives	2	September			
Adhesive joints Rigid and flexible joints Composition and formulation of commonly used adhesives Composition and formulation of commonly used adhesives Composition and formulation of commonly used adhesives Sealants 2 November Hot melt adhesives 2 November Acrylic base adhesives 2 November Acrylic base adhesives 2 November Natural rubber adhesives 2 December Review 2 December Foams: Introduction to rigid and flexible foams Properties of cellular plastics 2 January Foaming ingredients 2 January Foaming ingredients 2 January Effect of foaming ingredients on physical properties of cellular plastic 2 January Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) Manufacturing process of Polyurethane foams (flexible) Manufacturing process of Polyurethane foams (flexible)	Properties of surfaces and interfaces	2	September			
Rigid and flexible joints	Theory of adhesion and adhesive action	2	September			
and formulation of commonly used adhesives Composition and formulation of commonly used adhesives Sealants 2	Adhesive joints	2	October			
adhesives Sealants 2 November Hot melt adhesives 2 November Acrylic base adhesives 2 November Natural rubber adhesives 2 December Review 2 December Foams: Introduction to rigid and flexible foams 2 December Properties of cellular plastics 2 January Chemistry and physical formation 2 January Foaming ingredients 2 January Effect of foaming ingredients on physical properties of cellular plastic 2 January Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (figid) Manufacturing process of Polyurethane foams (figidi)		2	October			
Hot melt adhesives 2 November 2 November 3 Acrylic base adhesives 2 November 4 Natural rubber adhesives 2 December 5 December 5 December 6 December 7 December 7 December 8 December 9 Dece		2	October			
Acrylic base adhesives 2 November Natural rubber adhesives 2 December Review 2 December Foams: Introduction to rigid and flexible foams 2 December Properties of cellular plastics 2 January Chemistry and physical formation 2 January Foaming ingredients 2 January Effect of foaming ingredients on physical properties of cellular plastic 2 January Chemistry and formulation 2 February Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (figid) Manufacturing process of Polyurethane foams (figid) Manufacturing process of Polyurethane foams (figid) Manufacturing process of Polyurethane foams (flexible) March	Sealants	2	November			
Natural rubber adhesives 2 December Review 2 December Foams: Introduction to rigid and flexible foams 2 December Properties of cellular plastics 2 January Chemistry and physical formation 2 January Foaming ingredients 2 January Effect of foaming ingredients on physical properties of cellular plastic 2 January Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) 2 February Manufacturing process of Polyurethane foams (rigid) 2 March Manufacturing process of Polyurethane foams (flexible) 2 March	Hot melt adhesives	2	November			
Review 2 December Foams: Introduction to rigid and flexible foams 2 December Properties of cellular plastics 2 January	Acrylic base adhesives	2	November			
Foams: Introduction to rigid and flexible foams 2 December Properties of cellular plastics 2 January Chemistry and physical formation 2 January Foaming ingredients 2 January Effect of foaming ingredients on physical properties of cellular plastic Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) March	Natural rubber adhesives	2	December			
Introduction to rigid and flexible foams Properties of cellular plastics 2 January Chemistry and physical formation 2 January Foaming ingredients 2 January Effect of foaming ingredients on physical properties of cellular plastic Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) 2 March	Review	2	December			
Chemistry and physical formation 2 January Foaming ingredients 2 January Effect of foaming ingredients on physical properties of cellular plastic 2 January Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) 2 February Manufacturing process of Polyurethane foams (flexible) 2 March		2	December			
Foaming ingredients 2 January Effect of foaming ingredients on physical properties of cellular plastic 2 January Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) 2 February Manufacturing process of Polyurethane foams (rigid) 2 February Manufacturing process of Polyurethane foams (rigid) 2 February Manufacturing process of Polyurethane foams (flexible) 2 March	Properties of cellular plastics	2	January			
Effect of foaming ingredients on physical properties of cellular plastic Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) March	Chemistry and physical formation	2	January			
properties of cellular plastic Chemistry and formulation 2 February Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) March	Foaming ingredients	2	January			
Chemistry and formulation 2 February Manufacturing process of Polyurethane foams (rigid) 2 February Manufacturing process of Polyurethane foams (rigid) 2 February Manufacturing process of Polyurethane foams (rigid) 2 March Manufacturing process of Polyurethane foams (flexible) 2 March	Effect of foaming ingredients on physical properties of cellular plastic	2	January			
Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) 2 February March	Chemistry and formulation	2	February			
Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) 2 February March March	Chemistry and formulation	2	February			
Polyurethane foams (rigid) Manufacturing process of Polyurethane foams (flexible) 2 February March		2	February			
Polyurethane foams (flexible)		2	February			
Proposition of Dalamark and form (divid)		2	March			
Properties of Polyurethane foams (rigid) 2 March	Properties of Polyurethane foams (rigid)	2	March			

Properties of Polyurethane foams (flexible)	2	March		
Manufacturing process of Polystyrene foam	2	March		
Properties of Polystyrene foam	2	April		
Manufacturing process and properties of Epoxy foam	2	April		
Review of Important Topics	2	April		
Discussion on previous year question paper questions	2	April		
TOTAL	60			

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : PL 310 SUBJECT NAME : Management & Entrepreneurship

FACULTY NAME : VINOD KUMAR JAISV		DESIGNATION : LECTURER (PLASTIC TECH.)			
TOPIC	LECTURE / PRACTICAL CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Principles of Management : Management, administration and organisation, difference between them.	2	August			
Scientific management : Meaning, characteristics, object and advantage: Taylor's scientific management	2	September			
Fayol's principles of management	2	September			
Functions of management Types of ownership	2	September			
Types of ownership, sole trading, partnership, joint stock, co-operative and public enterprise	2	September			
Types of organisation, different types and their charts	2	October			
Importance of human relation professional ethics Need for leadership, leadership qualities Motivation	2	October			
Resources Development : Introduction, object and functions of human resource development department	2	October			
Recruitment, sources and methods of selection, need for effective training, method of training, duties of supervisor / Formen, Role of HRD in industries	2	November			
Wages and Incentives : Definition and requirements of a good wage	2	November			
system methods of wage payment Wage incentives - type of incentive, difference in wage incentive and bonus. incentive to supervisor	2	November			
Material Management : Purchasing Functions and duties of purchase department organisation of purchase department, methods of purchasing, purchase order, contracts.	2	December			
legality of contracts types of contracts i.e. piece work contract, lumpsum contract, item rate contract, percentage contract, merits and limitation of each contract system, departmental execution of works,	2	December			
Rate contract - D.G.S & D and C.S.P.O. tender, necessity, types of tenders, tendering procedure, earnest money and security money	2	December			
Store and store keeping: Functions and duties of store department, location and layout of store, big cords, store lodger.	2	January			
bin cards, store ledger, receipt and issue procedure of materials, physical verification of stores, disposal method of unserviceable articles and protection of stores	2	January			
Sales : function and duties of sales department sales promotion advertisement service after sales	2	January			
Financial Management : Function and duties of finance department Brief idea of journal, ledger, trial balance, trading account, profit and loss account, balance sheet	2	January			

Unequies (rossee and better), draft, promissory note, letter of craft, buff dies of local to the flow of local to			1		
Markening Problems Markening Management Concept of Markening, Problems of Markening Princing policy Consept of Markening Problems of Markening Princing policy Constitution channels and methods of markening Contribution channels and methods of markening Contribution channels and methods of markening Contribution channels Contribution Contribu	Cheques (crossed and bearer), draft, promissory				
Accounting problems Municipal problems Concept of Marketing, Problems of Marketing Pricing policy Distribution channels and methods of marketing Pricing policy Entrepreneurship and Entrepreneur Need of Employment and Opportunities. Essential Characteristics of a good Entrepreneur Need of Employment and Opportunities. Essential Characteristics of a good Entrepreneur Medium scale, Large scale Handicraft, Annillary Type of Industries—Truy, remails scale, Medium scale, Large scale Handicraft, Annillary Type of Industries—Truy, remails scale, Medium scale, Large scale Handicraft, Annillary Type of Industries—Truy, remails scale, Medium scale, Large scale Handicraft, Annillary Type of Industries—Truy and Scale, Medium scale, Large scale Handicraft, Annillary Type of Industries—Truy and Scale, Medium scale, Large scale Handicraft, Annillary Type of Industries—Truy and Scale, Medium scale, Large scale Handicraft, Annillary Type of Industries—Truy and Scale, March Plant layout Institutional Support needed Distributional Support needed Distribution of NSIC, SISI, NISIET, NROC, SSIC, SIDO, NMTC, KVIC, RSMML, Roce of State finance corporation, state electricity Setting up SSI: Registration of SSI Alpoment of land by RICO Distribution of SSI Alpoment of land by RICO Distribution of Industries Distribution of Industr		2	February		
Marketing Management: Concept of Marketing, Problems of Marketing Pricing policy Distribution channels and methods of marketing Entrepreneurship and Entrepreneur Need of Employment and Opportunities. Escential Characteristics of a good Entrepreneur Secretical Characteristics of a good Entrepreneur Classification of Industries: Truy, small scale, Modulum scale, large scale, Handirotti, Ancillary Type of Industries: Production, Job based & service Entrepreneurial Development: Product Identification selection Site selection Prinar layout Institutional support needed Prinary Conductive State of			,		
Concept of Marketing, Problems of Marketing Picting policy Picting policy Picting policy Picting policy Picting Pictin					
Pictorian policy Entrepreneurship and Entrepreneur Entrepreneurship and Entrepreneur Need of Employment and Opportunities. Essential Characteristics of a good Entrepreneur Industrial Policy Industrials Tray, small scale, Medium scale, Large scale, Handicard, Ancillany Type of Industries: Production, Job based & Service Entrepreneurial Development: Product Identification Selection Site selection Plant layout Institutional support needed Pre-market surve Entrepreneurial Development: Product Identification Selection Site selection Plant layout Institutional support needed Pre-market surve Entrepreneurials Dupont System: Entrepreneuri					
Pricing policy Circle Control		2	February		
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