

PLANNED SYLLABUS COVERAGE(Theory)

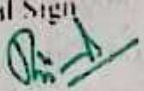
G P Kangra		Department: <u>Electrical Engg.</u>		Subject: <u>Building Electrification</u>		
SYLLABUS COVERAGE		Course: <u>Diploma</u>		Duration: <u>03 years</u>		
		Total Periods: <u>84</u>		Theory: <u>84</u>		
Sl. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
1.	16 (1-16)	Unit I	Switch - their types according to construction such as surface switch, flush, pull, rotary, knife, pendant and main switch Holders: - Their types, such as bayonet cap lamp holder, button angle, bracket tube light holder, socket outlets, 3 pin, 2 pin multiple.	Electrical Estimating & Costing - subject Singh.	Building Electrification by Dr. Anand Choudhary	
2.	16 (17-32)	Unit II	Conductors wire, cable, bus bar, standard conductor, cable, armoured cable, flexible cable, solid conductors. CTS, FR wire, gas filled type, polyvinyl chloride, cross linked polyethylene, impregnated paper.			
3.	17 (33-49)	Unit III	Factors determining the selection of wiring methods, Conduit wiring types of conduit, comp. between metal & PVC conduit, wiring components, all wiring, Design working & drawing of			

To be approved from concerned HOD within seven days from beginning of semester & will be kept with the concerned teacher in his file.

Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
4.	18 (50-67)	Unit IV	Simple light & fan circuits, staircase lighting. Difference b/w residential/ industrial load, lighting & power circuits, schematic diag. load assessment, design, drawing & costing of residential installation, calculation labour etc.	//	//	
5.	17 (68-89)	Unit IV	Definition:- Luminous flux, intensity, lumen, Illumination, lux, space height ratio, Luminous efficiency, laws of Illumination, Factors affecting illumination, luminous flux of diff. light sources, lux level required at different places.			

Extra Topics to be covered beyond the scope of the syllabus (as required by industry/ as recommended by Teacher which he/ she finds necessary)

Sr. No.	Period No.	Topic Covered	Instruction Reference	Additional Study recommended	Remarks

Approved / Not approved	
Date 27-01-2026	HOD Sign 
Date	Principal Sign 

PLANNED SYLLABUS COVERAGE(Theory)

G P Kangra		Department: <u>EE</u> Subject <u>ES&U</u>				
		Course <u>Diploma</u> Duration <u>3 years</u>				
SYLLABUS COVERAGE		Total Periods <u>56</u> Theory <u>56</u>				
Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
1.	1-10	Introduction to Entrepreneurship And start-ups.	Unit: I Definitions, Traits of an entrepreneur, Intro-preneurship, motivation. Types of Business Structures, Similarities/differences between entrepreneurs and managers.	ES By Harish C. Swami	By. startup Owner's Manual	
2.	11-20	Business Ideas & their implementation	Unit: II Discovering ideas & Visualizing the business Activity map Business Plan.	By. Bomod Kumar Singh.	By Steve Blank. or By Internet.	
3.	21-30	Idea to start up.	Unit: III market Analysis: Identifying the target market. Competition evaluation & Strategy Development. Marketing & accounting. Risk analysis.			
4.	31-40	Management	Unit: IV Company's Organisation Structure.			

No.	Period Nos.	Topic	Details	Reference	Recommended	
5.	41-50	Financing & Protection of Ideas.	Recruitment & management of talent. Financial organisation & management. Unit:-V Financing methods available of start ups in India, Communication of Ideas to potential investors - Investor Pitch, Patenting & Licenses.			
6.	51-56	Unit-IV	Exit Strategies for entrepreneurs, bankruptcy & succession & harvesting strategy			

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Use additional sheets (if required).

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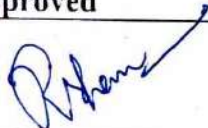
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G P Kangra		Department: <u>EE [HEOE 302]</u> Subject <u>Installation Testing & Maintenance</u>				
SYLLABUS COVERAGE		Course <u>Diploma</u> Duration <u>3 years</u>				
		Total Periods <u>56</u> Theory <u>56</u>				
Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
1.	1-10	UNIT-I : Introduction Execution and Commissioning of Machines	Necessity of testing, repair & maintenance, manpower planning & materials management. Location, layout & positioning of machines foundation & types foundation plan, bolts, erection & levelling, grading, vibration damping.	Industrial Maintenance By H.P. Chong	By using Internet	
2.	11-25	Inspection, Servicing, Repair & Overhauling of machines & Equipment	UNIT-II :- Inspection of various machines & equipments services & repair of various m/c & equipments overhauling of various m/c & equipments. Maintenance planning, various stages of maintenance schedule	S. Chand & Cmp Installation Servicing Maintenance By		
3.	26-38	Reliability Centred Maintenance & Overhauling	UNIT-III : Reliability, Availability Maintainability. frequent failure of common parts which require frequent maintenance to avoid downtime & main causes & remedial measures Overhauling Schedule & procedure fault diagnosis & action against fault.	SN Bhatta Charya & By AR. Basu		

Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
4.	39-56	Maintenance & Storage of parts	Unit-IV :- Meaning of maintenance Advantages & Disadvantages. Types of maintenance :- Preventive, Predictive & Breakdown maintenance Maintenance Organisation Centralized & Decentralized maintenance. Storage of parts used frequently for replacement & parts which are not easily available in local market History cards of different machines. Machines repair decision.			

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Period Nos.

Topic

Details

Instruction
Reference

Additional
Study
Recommended

Remarks

Department: Electrical Engg Subject: Production Planning & Control (open Elective)
Course: Diploma Duration: 3 Years

Total Periods _____ Theory _____

1

14

Introduction Types of Production

Job, batch & mass production, Concept of planning, scheduling, routing, dispatching & follow up.

Break even Analysis

Plant location & layout. Factors affecting the site selection of

Plant, Factors affecting plant layout. Types of layout - Process,

product, combination & fixed position.

Material purchasing, store keeping, functions & duties of

store department;

Definition of inventory

Types of inventory;

ABC analysis, Procurement cost, carrying charges, lead-time,

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Industrial Engineering

& Management

by

O.P Khanna.

Dharpat Rai

& sons

New Delhi

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Inventory control

Material purchasing,

store keeping, functions & duties of

store department;

Definition of inventory

Types of inventory;

ABC analysis, Procurement cost, carrying charges, lead-time,

Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
3.	10	Inspection + quality control (problems omitted)	recorder point. Economic ordering quantity, simple direct numerical problems, concept of J.I.T. Inspection needs; types of Inspection; stages of inspection; statistical quality control, Process capability, control chart for variables - $\bar{X}$ & R chart.			

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		NIL			

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G P . Kangra		Department: <u>Electrical Engg</u> Subject <u>Production Planning & Control (Open Elective)</u>				
SYLLABUS COVERAGE		Course <u>Diploma</u> Duration <u>3 years</u>				
		Total Periods _____ Theory _____				
Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
4.	11	Material Handling Repair & Maintenance	control chart for fraction defectives (P chart) Control chart for number of defects (C chart). Principles of material handling; Hoisting equipment - Fork lift truck, Cranes Conveying equipments - Package conveyor, gravity roller conveyors, screw conveyor flight or scraper conveyor, bucket conveyor, belt conveyor & pneumatic conveyor. Objectives & importance of maintenance activities. Procedure of preventive maintenance. Different type of maintenance. Nature of maintenance problem. Range of maintenance activities. Schedules of preventive maintenance. Advantages of preventive maintenance.	(2) Production Management by C.L. Mahajan Satya Prakashan Company Limited New Delhi. (3) A text Book of Reliability &		

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Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
5.		Cost estimation & Control (problems omitted)	Functions of cost estimation, estimation procedure, Elements of cost, Ladder of cost, Depreciation concept & methods of calculating depreciation overhead expenses, Cost control - Capital cost control (planning & scheduling) operating cost control	Maintenance Engineering		

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		NIL			

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		Course <u>Diploma in EL & ME, IE</u> Duration <u>3 years</u>				
		Total Periods <u>2/week</u> Theory <u>28</u>				
Sl. No.	Serial Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
1	1-7	Unit - 1 Introduction to constitution	History of making of IC, Meaning and Importance of IC, features of IC, preamble & its features, fundamental rights, meaning and limitations, Directive Principles, state policy and fundamental duties, their enforcement and relevance.	Introduction to Constitution of India by DD Basu. Introduction to the Constitution of India by M.V. Pylee, 14th edition.		
2	8-14	Unit - 2 Union Government	Structure of Union Govt. Union executive President, vice president, PM and Council of Ministers, Union Legislature, - Parliamentary and Parliamentary proceedings. Union Judiciary - Supreme Court of India, composition and powers and functions.	do		
3	15-22	Unit - 3 State & Local Govt.	Structure of State Govt. State executive - Governor, Chief Minister, Council of Ministers, State Legislature - State Legislative Assembly & Council, State Judiciary - High Court, Local Govt. Panchayat Raj, system with reference to rural and urban local self Govt. with reference to 74th amendment.	do		

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Sr. No.	Period No.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
4	23-28	Unit - 4 Election Provisions, Emergency provisions, Amendment of the constitution	Election commission of India - composition, powers and functions and elected process. Types of emergency - ground, procedure, duration and effects. Amendment of constitution - meaning, procedure and limitations.			

Part A Topics to be covered beyond the scope of the syllabus (as required by industry/ as recommended by Teacher which he/ she finds necessary)

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