



1) Subject Code: Th.1

2) Subject Title: Entrepreneurship and Management & Smart Technology

Semester: 5th 3) 4) Branch: Civil & Mech.

Faculty: Jitendra Kumar Das 5) No. of Classes / Week: 3 6)

Pre Requisite for the Subject: NIL / YES, If YES, give details: 7)

Text Book to be referred by students:

SI No.	Book	Author	Publication	% of Questions Asked	Year (Edition)	Whether available in Library
_	Entrepreneurship and	B. BADHAI	Dhanpat Rai and	90	2007	Yes
	Management & Smart		Sons			
	Technology					

9) Course Coverage Schedule

Ch. No.	Name of the Chapter	Course to be Covered	No of periods Required	Total Class for Chapter/ Week (From-To)	Remark
		1.1Concept /Meaning of Entrepreneurship 1.2 Need of Entrepreneurship 1.3 Characteristics, Qualities and Types of entrepreneur, Functions 1.4Barriers in entrepreneurship	01 01		
01	ENTREPRENEUR	1.5Entrepreneurs vrs. Manager 1.6Forms of Business Ownership: Sole proprietorship, partnership forms andothers	01	05	
01	SHI	1.7Types of Industries, Concept of Start-ups	01	Week(1-2)	
		1.8Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc. 1.9 Technology Business Incubators (TBI)and Science and Technology Entrepreneur Parks1001 Topic End	01		
	MARKET SURVEY AND OPPORTUNITY	2.1Business Planning 2.2 SSI, Ancillary Units, Tiny Units, Service sector Units	01	03	
02	IDENTIFICATION(BUSINESS PLANNING)	2.3Time schedule Plan, Agencies to be contacted for Project Implementation 2.4 Assessment of Demand and supplyand Potential areas of Growth	01	03 Week-(2-3)	
		2.5Identifying Business Opportunity 2.6Final Product selection 1002 Topic End	01		
03	PROJECT	3.1Preliminary project report	01	02	
	REPORT PREPARATION	3.2Detailed project report, Techno economic Feasibility 3.3 Project Viability 1003 Topic End	01	Week-(3-4)	
04	MANAGEMENT PRINCIPLES	4.1Definitions of management 4.2 Principles of management	01	03	
		4.3Functions of management (planning, organising, staffing, directing and controlling etc.)	01	Week-(4-5)	
		4.4Level of Management in an Organisation 1004 Topic End	01		
05	FUNCTIONAL AREASOF MANAGEMENT	5.1 Production management 5.1.1 Functions, Activities 5.1.2 Productivity 5.1.3 Quality control 5.1.4 Production Planning and control 5.2 Inventory Management	01	06 Week-(5-6-7)	

Need for Inventory management 5.2.1

		5.2.2 Models/Techniques of Inventory			
		5.3 Financial Management 5.3.1 Functions of Financial management 5.3.2 Management of Working capital	01 -		
		5.3.3 Costing (only concept 5.3.4 Break even Analysis 5.3.5 Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&I, Accounts	01	1	
		5.4 Marketing Management 5.4.1 Concept of Marketing and Marketing Management	. 01		
		5.4.3 Concept of 4P's (Price, Place, Product, Promotion) 5.5 Human Resource Management			
		5.5.1 Functions of Personnel Management Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training& Development, Payment of Wages 1005 Topic End	01		
		6.1 Leadership 6.1.1 Definition and Need/Importance 6.1.2 Qualities and functions of a leader 6.1.3 Manager Vs Leader 6.1.4 Style of Leadership (Autocratic, Democratic, Participative)	01		
06	LEADERSHIP AND MOTIVATION	6.2.2 Importance of motivation 6.2.3 Factors affecting motivation	01	03 Week-(7-8)	
		6.2.4 Theories of motivation (Maslow) 6.2.5 Methods of Improving Motivation 6.2.6 Importance of Communication in Business 6.2.7 Types and Barriers of Communication 1006 Topic End	01		
07	WORK CULTURE,	7.1Human relationship and Performancein Organization 7.2Relations with Peers, Superiors and Subordinates 7.3TQM concepts: Quality Policy, Quality	01		
07	TQM& SAFETY	Management, Quality system 7.4 Accidents and Safety, Cause, preventive measures, General SafetyRules, Personal Protection Equipment(PPE) 1007 Topic End	, 01	02 Week-8	
20		8.1 Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights	01		
08	LEGISLATION	8.2 Features of Factories Act 1948 with Amendment (only salient points) c) 8.3 Features of Payment of Wages Act 1936(only salient points) 1008 Topic End	01	02 Week -9	
		9.1Concept of IOT, How IOT works	01		
		9.2Components of IOT, Characteristics ofIOT, Categories of IOT	01		
9	SMART TECHNOLOGY	9.3 Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc	02	04 Week(9-10)	
		1009 Topic End			

J'K'Dal Faculty MARCH 123 HOD 123

Principal 103

1) Subject Code: Th2 2) Subject Title: STRUCTURAL DESIGN-II

3) Semester: 5th 4) Branch: CIVIL ENGG.

5) Faculty: Amrita Mallick

6) No. of Classes / Week: 3Th. Cl./week, 1Pr. Cl./week

7) On completion of the course, a student will be able to

i. Design simple steel structure such as tension members, compression members and simple beams.

ii. Design timber structural elements

iii. Design staircase, footings by limit method of design.

iv. Draw the details of a steel roof truss.

v. Draw the reinforcement details of underground RCC water tank and RCC footings.

vi. Use standards and design codes.

8) Text Book to be referred by students:

SI No.	Book	Author	Publication	% of Questions Asked	Year (Edition)	Whether available in Library
i	Elements of Steel , Timber & Masonry Design	Samal & Panigrahi	Kalyani Pbln	60%	1 st (2012)	YES
ii	Design of Steel Structures	B.N.Duggal	McGraw Hill Education	30%	3 rd (2012)	YES

Ch.	Name of Chapter	Course to be Covered	No of	Total Class for	Remar
No.			periods Required	Chapter/ Week (From-To)	ks
01	Introduction	 1.1 Common steel structures, Advantages & disadvantages of steel structures. 1.2 Types of steel, properties of structural steel. 1.3 Rolled steel sections, special considerations in steel design. 	1	2 Week(1)	
		 1.4 Loads and load combinations. 1.5 Structural analysis and design philosophy. 1.6 Brief review of Principles of Limit State design. 1001 TOPIC END 	1		
02	Structural Steel Fasteners and Connections	2.1 Bolted Connections 2.1.1 Classification of bolts, advantages and disadvantages of bolted connections.	1	10+2(P) Week(1-4)	
		2.1.2 Different terminology, spacing and edge distance of bolt holes.	1		
		2.1.3 Types of bolted connections.	1		
		2.1.4 Types of action of fasteners, assumptions and principles of design.	1		
		2.1.5 Strength of plates in a joint, strength of bearing type bolts (shear capacity&	1		

			4	
	Wall attended	bearing capacity), reduction factors, and shear capacity of HSFG bolts.		
		2.1.6 Analysis & design of Joints using bearing type and HSFG bolts (except eccentric load and prying forces)	1+1(P)	· ·
	8,00	2.1.7 Efficiency of a joint.	1	
	S AMOREST SARRY	2.2 Welded Connections:2.2.1 Advantages and Disadvantages of welded connection	1	n Front and Parish
		2.2.2 Types of welded joints and specifications for welding	1	e alluma essentiales
		2.2.3 Design stresses in welds. 2.2.4 Strength of welded joints 1002 TOPIC END	1+1(P)	
03	Design of Steel tension Members	3.1 Common shapes of tension members.3.2 Maximum values of effective slenderness ratio.	2+1(P)	4+2(P) Week(4-5)
		3.4 Analysis and Design of tension members. (Considering strength only and concept of block shear failure.) 1003 TOPIC END	2+1(P)	t dans and
04	Design of Steel	4.1 Common shapes of compression	1	7+1(P)
	Compression members	members. 4.2 Buckling class of cross sections, slenderness ratio	1	Week(6-7)
	* * *	4.3 Design compressive stress and strength of compression members.	1+1(P)	
		4.4 Analysis and Design of compression members (axial load only). 1004 TOPIC END	4	
05	Design of Steel beams	5.1 Common cross sections and their classification.	1	3+2(P) Week(8-9)
		5.2 Deflection limits, web buckling and web crippling.	1+1(P)	
		5.3 Design of laterally supported beams against bending and shear. 1005 TOPIC END	1+1(P)	
06	Design of Tubular Steel Structures	6.1 Round Tubular Sections, Permissible Stresses 6.2 Tubular Compression & Tension Members	1+1(P)	2+2(P) Week(9-10)
		6.3 Joints in Tubular trusses 1006 TOPIC END	1+1(P)	
07	Design of Masonry Structures	7.1 Design considerations for Masonry walls & Columns, Load Bearing & Non-Load Bearing walls, Permissible stresses, Slenderness Ratio, Effective Length, Height & Thickness.	2+1(P)	2+1(P) Week(10)
		1007 TOPIC END		Rada
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Faculty of 29

HA-11/23 HOD 123 Principal 707 2023

1) Subject Code: Th3. 2) Subject Title: Railway & Bridge Engg.

3) Semester:5TH 4) Branch: CIVIL ENGG.

5) Faculty: Subhasmita Swain

6) No. of Classes / Week: 4/ WEEK

7) On completion of the course, a student will be able to

- i. Explain railway terminology
- ii. Comprehend the track components and relate to the material or geometric aspects that can be used for these
- iii. Describe methods of laying and maintaining the track
- iv. State the requirements for an ideal bridge and describe types of foundation and substructures
- v. Classify the bridges and identify the components
- vi. Select the bridge sites in context of hydrologic requirements

8) Text Book to be referred by students:

SI No.	Book	Author	Publication	% of Questions Asked	Year (Edition)	Whether available in Library
i	A Text book of Railway	S.C.Sexena &	Dhanpat Rai	55	2006	YES
	Engineering	S.P.Arora	Publications		7th	
ii	Bridge Engineering	S.P. Bindra	Dhanpat Rai	40	2007	YES
			Publications		9th	

Ch. No.	Name of Chapter	Course to be Covered	No of periods Required	Total Class for Chapter/ Week (From-To)	Rema rks
1	Introduction	1.1 Railway terminology	1	1	
		1.2 Advantages of railways		Week(1)	
		1.3 Classification of Indian			
		Railways			
		1001 TOPIC END			
2	Permanent way	2.1 Definition and components of a permanent way	1	Week(1)	
		2.2 Concept of gauge, different gauges prevalent in India, suitability of these gauges under different conditions 1002 TOPIC END	1		
3	Track materials	3.1 Rails 3.1.1 Functions and requirement of rails 3.1.2 Types of rail sections, length of rails	1	11 Week(1-4)	
		3.1.3 Rail joints – types, requirement of an ideal joint	1		
		3.1.4 Purpose of welding of rails & its advantages	1		
		3.1.5 Creep- definition, cause &	1	7	

		T			
		prevention	1		
		3.2 Sleepers	1		
		3.2.1 Definition, function &			
		requirements of sleepers			
		3.2.2 Classification of sleepers			
		3.2.3 Advantages & disadvantages	1		
		of different types of sleepers			
		3.3 Ballast	1		
		3.3.1 Functions & requirements of	1		
		ballast			
		3.3.2 Materials for ballast			
			1		
		3.4 Fixtures for Broad gauge	1		
		3.4.1 Connection of rails to rail-	1		
		fishplate, fish bolts			
		3.4.2 Connection of rails to sleepers	1		
		1003 TOPIC END	1		
4	Geometric for	4.1Typical cross – sections of single	2	5	
-	broad gauge	& double broad gauge railway track	_	Week(4-5)	
	oroug gauge	in cutting		Week(13)	
		and embankment			
			1		
		4.2 Permanent & temporary land	1		
		width			
		4.3 Gradients for drainage	1		
		4.4 Super elevation – necessity &	1		
		limiting valued			
		1004 TOPIC END			
5	Points and	5.1 Definition, necessity of Points	2	5	
	crossings	and crossings	_	Week(5-6)	
	Crossings	and crossings		(CON(5 0)	
		5.2 Types of points & crossings with	2		
			2		
		tie diagrams	1		
		1005 TOPIC END	1		
6	Laying &	6.1 Methods of Laying &	1	2	
	maintenance of	maintenance of track		Week(7)	
	track				
		6.2 Duties of a permanent way	1		
		inspector			
		1006 TOPIC END			
		Section – B: BRIDGES		<u> </u>	
7	Introduction to	1.1 Definitions	1	2	
'	bridges	1.1 Definitions	1	Week(7)	
	bridges	1.2 Components of a bridge		Week(/)	
		1.3 Classification of bridges			
		1.4 Requirements of an ideal bridge	1		
		1007 TOPIC END	1		
8	Bridge site	2.1 Selection of bridge site,	1	3	
0			1		
	investigation,	Alignment,		Week(8)	
	hydrology &	2.2 Determination of Flood			
	planning	Discharge			
		2.3 Waterway & economic span	1		
		2.4 Afflux, clearance & free board			
		1008 TOPIC END	1]	
9	Bridge	3.1 Scour depth minimum depth of	1	5	
	foundation	foundation		Week(8-9)	
	Touridution	3.2 Types of bridge foundations –	2	,, cor(o))	
	1	spread foundation, pile foundation-		i l	
		well			

	.0	foundation – sinking of wells, caission foundation	La La Trico.	ed hy Metric, 1886 Localización (Metric	
		3.3 Coffer dams	1		
		1009 TOPIC END	1		
10	Bridge	4.1 Types of piers	1	2	
	substructure and	4.2 Types of abutments		Week(10)	
	approaches	4.3 Types of wing walls 4.4 Approaches 1010 TOPIC END	1		
11	Culvert & Cause Ways	5.1 Types of culvers – brief description	. 1	2 Week(10)	
		5.2 Types of causeways – brief description 1011 TOPIC END	1 38 6 85 89 945/45		

Faculty

HALLY 123 HOD Paralm Principal (9) 202)

1) Subject Code: Th-4 2) Subject Title: WS & WWE

3) Semester: 5th 4) Branch: Civil Engineering

5) Faculty: Rutuparna Mohapatra6) No. of Classes / Week: 4/week

7) On completion of the course, a student will be able to

- i. To determine the water demand in terms of quantity and quality
- ii. To Describe the water sources, conveyance and distribution system
- iii. To realize the necessity of treatment and purpose of different water treatment processes
- iv. To determine the terminology relating to sanitary engineering and compute quantity & quality of sewage
- v. To describe the sewerage system and its components stating the purposes.
- vi. To determine the necessity and method of sewage treatment and disposal
- 8) Text Book to be referred by students:

SI No.	Book	Author	Publication	% of Questions Asked	Year (Edition)	Whether available in Library
I	Text book on water	G.S.Birdie	Dhanpat Rai	60%	9 th	Yes
	supply and sanitary		Publications		edition-	
	engineering				2011	
li	Water Supply	S.K.Garg	Khanna	30%	20 th edition	Yes
	Engineering		Publishers		-2011	

Ch. No.	Name of Chapter	Course to be Covered	No of periods Required	Total Class for Chapter/ Week (From-To)	Remar ks
		PART :A (WATER SUPPLY)		•	
1.	Introduction to Water Supply, Quantity and Quality of water	1.1 Necessity of treated water supply 1.2 Per capita demand, variation in demand and factors affecting demand	1	5 Week(1-2)	
		1.3 Methods of forecasting population, Numerical problems using different methods	1		
		1.4 Impurities in water – organic and inorganic, Harmful effects of impurities	1		
		1.5 Analysis of water –physical, chemical and bacteriological	1		
		1.6 Water quality standards for different uses 1001 Topic End	1		
2.	Sources and Conveyance of water	2.1 Surface sources – Lake, stream, river and impounded reservoir	1	4 Week (2-3)	

		T		1	
		2.2 Underground sources –			
		aquifer type & occurrence – Infiltration gallery, infiltration			
		well, springs, well			
		2.3 Yield from well- method s of	1		
		determination, Numerical	1		
		problems using yield formulae (
		deduction excluded)			
		2.4 Intakes – types, description of	1		
		river intake, reservoir intake,			
		canal intake			
		2.5 Pumps for conveyance &	-		
		distribution – types, selection,			
		installation.			
		2.6 Pipe materials – necessity,	1		
		suitability, merits & demerits of			
		each type			
		2.7 Pipe joints – necessity, types	1		
		of joints, suitability, methods of	1		
		jointing			
		Laying of pipes – method			
		1002 Topic End	1		
	Treatment of water	3.1 Flow diagram of conventional	1	8	
3.		water treatment system		Week (3-	
		3.2 Treatment process / units :		5)	
		3.2.1 Aeration; Necessity	2		
		3.2.2 Plain Sedimentation :	-		
		Necessity, working principles,			
		Sedimentation tanks – types,			
		essential features, operation &			
		maintenance			
		3.2.3 Sedimentation with	1		
		coagulation: Necessity, principles			
		of coagulation, types of			
		coagulants, Flash Mixer,			
		Flocculator, Clarifier (Definition			
		and concept only)			
		3.2.4 Filtration : Necessity,	1		
		principles, types of filters			
		Slow Sand Filter, Rapid Sand			
		Filter and Pressure Filter –			
		essential features	1		
		3.2.5 Disinfection : Necessity,	1		
		methods of disinfection Chlorination – free and combined			
		chlorine demand, available			
		chlorine, residual chlorine, pre-			
		chlorination, break point			
		chlorination, super- chlorination			
		3.2.6 Softening of water –	1		
		Necessity, Methods of softening –			
		Lime soda process and Ion			
		exchang e method (Concept			
		Only)			
		1003 Topic End	1		
			j		

4.	Distribution system and	4.1 General requirements, types of	1	3 Week 5
	Appurtenance in distribution system	distribution system-gravity, direct and combined		week 3
	distribution system	4.2 Methods of supply –	1	-
		intermittent and continuous	1	
		4.3 Distribution system layout –		
		types, comparison, suitability		
		4.4 Valves-types, features, uses,	1	-
		purpose-sluice valves, check	1	
		valves, air valves, scour valves,		
		Fire hydrants, Water meters		
		1004 Topic End		
5.	W/s plumbing in	5.1 Method of connection from	1	2
	building	water mains to building supply	-	Week 6
	o unium g	5.2 General layout of plumbing	1	
		arrangement for water supply in	_	
		single storied and multi-storied		
		building as per I.S. code.		
		1005 Topic End		
	PA	RT B: (WASTE WATER ENGINE	ERING)	
6.	Introduction	6.1 Aims and objectives of	1	2
		sanitary engineering		Week 6
		6.2 Definition of terms related to		
		sanitary engineering		
		6.3 Systems of collection of	1	
		wastes- Conservancy and Water		
		Carriage System – features,		
		comparison, suitability		
_		1006 Topic End		
7.	Quantity and Quality of	7.1 Quantity of sanitary sewage –	1	4
	sewage	domestic & industrial sewage,		Week 7
		variation in sewage flow,		
		numerical problem on		
		computation quantity of sanitary		
		sewage.	1	_
		7.2 Computation of size of sewer,	1	
		application of Chazy's formula, Limiting velocities of flow: self-		
		cleaning and scouring		
		7.3 General importance, strength	1	_
		of sewage, Characteristics of	1	
		sewage-physical, chemical &		
		biological		
		7.4 Concept of sewage-sampling,	1	
		tests for – solids, pH, dissolved	1	
		oxygen, BOD, COD		
		1007 Topic End		
8.	Sewerage system	8.1 Types of system-separate,	1	3
		combined, partially separate,		Week 8
		features, comparison between the		
		types, suitability		
		8.2 Shapes of sewer – rectangular,	1]
		circular, avoid-features, suitability		
		8.3 Laying of sewer-setting out		
		8.3 Laying of sewer-setting out sewer alignment		
			1	

9.	Sewer appurtenances and Sewage Disposal	9.1 Manholes and Lamp holes – types, features, location, function	1	4 Week (8-9)
		9.2 Inlets, Grease & oil trap – features, location, function	1	- Week (0.9)
		9.3 Storm regulator, inverted siphon – features, location, function		
		9.4 Disposal on land – sewage farming, sewage application and dosing,	1	
		9.5 Disposal by dilution – standards for disposal in different types of water bodies, self purification of stream	1	
		1009 Topic End	4	
10.	Sewage treatment	10.1 Principles of treatment, flow diagram of conventional treatment	1	3 Week (9-
		10.2 Primary treatment – necessity, principles, essential features, functions	1	- 10)
		10.3 Secondary treatment – necessity, principles, essential features, functions	1	
		1010 Topic End		
11.	Sanitary plumbing for building	11.1 Requirements of building drainage, layout of lavatory blocks in residential buildings, layout of building drainage	1	Week 10
		11.2 Plumbing arrangement of single storied & multi storied building as per I.S. code practice		
		11.3 Sanitary fixtures – features, function, and maintenance and fixing of the fixtures – water closets, flushing cisterns, urinals,	1	
		inspection chambers, traps, anti- syphonage pipe		
		1011 Topic End		

R. Mohapatra

MAchyo 123 HOD 12197/23 Principal Principal

1) Subject Code:TH 5 2) Subject Title: Estimation & Cost Evaluation

3) Semester:5TH 4) Branch: Civil Engg.

5) Faculty: Dipika Samal

6) No. of Classes / Week: 4 Th. Cl./Week, 1Pr. Cl./Week

7) On completion of the course, a student will be able to

- i. Create detailed estimate of culverts and bridges
- ii. Prepare estimates of irrigation structures
- iii. Prepare estimates of a macadam road and a national highway in cutting and filling
- iv. Prepare detailed estimates for septic tank and soak pits
- v. Prepare detailed estimates of miscellaneous works
- vi. Comprehend the management practices in Public Works Department
- vii. Interpret the building by laws furnished by regulatory bodies
- 8) Text Book to be referred by students:

SI No.	Book	Author	Publication	% of Questions Asked	Year (Edition)	Whether available in Library
i	Estimating, Costing, specification	M.Chakraborty.	Published by author	60%	2010 23rd	YES
	1 *		author		231 u	
	&Valuation in Civil					
	Engineering					
ii	Estimating	B.N.Dutta	UBSPD	30%	2012	YES
	&Costing				27th	

Ch. No.	Name of Chapter	Course to be Covered	No of periods Required	Total Class for Chapter/ Week (From- To)	Rem arks
1	Detailed estimate of culverts	1.1Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	4	10 +3(P) Week (1-3)	
	and bridges	1.2RCC Hume pipe culvert with splayed angled wing wall 1001 TOPIC END	5+2P 1+1P		
2	Estimate of irrigation structures	2.1Detailed estimate of simple type of vertical fall to given specification 2.2Detailed estimate of drainage siphon to given specification.	5 4+2P	10+3(P) Week (3-6)	
	Structures	1002 TOPIC END	1+1P	1	
3	Detailed estimate	3.1Detail estimate of a water bound macadam road	2	7 +2(P) Week (6-7)	
	of roads	3.2Detailed estimate of a flexible pavement in cutting / filling	2		
		3.2Detailed estimate of septic tank and soak pit for 50 users	2+1P		
		1003 TOPIC END	1+1P		
4	Detailed estimates	4.1 Tube well, Piles and Pile cap, Isolated and combined footings.	6	7	

of miscellane ous works	1004 TOPIC END	1	Week (8-9)	
PWD accounts works	5.1 Works 5.1.1 Classification of work-original, major, petty, repair work, annual repair, special	1	6+2(P) Week (9-10)	
	repair, quadrantal repair. 5.1.2 Concept of Method of execution of works through the contractors and department, contract and agreement, work order, types of contract, piece work agreement.		TO SECURE TO SECURE	
	5.2 Accounts of works 5.2.1 Explanation of various terms Administrative approval, technical sanction, tender, preparation of notice inviting tender, quotations, earnest money, E-tendering, security deposit, advance payment, intermediate payment, final payment, running bill, final bill, regular and temporary establishment, cash, major & subhead of account, temporary advance (imprest money), supervision charges, suspense account, debit, credit, book transfer, voucher and related accounts.	1+1P		
	5.2.2 Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials, labour employed, standard measurement books and common irregularity			
	5.2.3 Muster roll: Its preparation & use for making payment of pay & wages 5.2.4 Acquittance Roll: Its preparation &	1	Total Carlo	
100 (g) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	use for making payment of pay & wages 5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission			
UE	5.2.6 Classification of stores, receipt / issue statement on standard form, method of preparation of stock account, preparation and submission of returns, verification of stocks, shortage and excess			
	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.			
	1005 TOPIC END	1+1P		

D. Samal Faculty 7. 07.23

HACLAYET/23 HOD PT Porpalm

2807207)

Principal