

**KONGUNADU ARTS AND SCIENCE COLLEGE**

(AUTONOMOUS)

Re-accredited by NAAC with A⁺ Grade - 4th Cycle, College of Excellence - UGC
Coimbatore - 641 029, Tamil Nadu, India

Batch : 2023

From : 04-12-2023

Course Code : 23PCN205

Class : I/CLINICAL
NUTRITION

Section : Main

Lesson Plan Completion Status

Semester : 2

To : 16-04-2024

Course Title : CORE PAPER 5 - NUTRITION IN CLINICAL CARE- I

Faculty Name : HARINEE N.

No. of Hours : 71
Completed

Session	Unit	Topic	Status
1	1	Diet therapy - Principles and Objective	Completed
2	1	role of dietitian in hospital and community	Completed
3	1	goals and policies of IDA,	Completed
4	1	Diet prescription,	Completed
5	1	Diet counseling guidelines for dietary planning	Completed
6	1	Use of exchange lists in nutrient calculation	Completed
7	1	Menu planning -Routine hospital diets	Completed
8	1	Modifications for different diseases or disorders	Completed
9	1	Nutritional Care Process - Introduction	Completed
10	1	Nutritional assessment of hospitalized patient	Completed
11	1	Identification of problems	Completed
12	1	Nutrition Diagnosis	Completed
13	1	Nutrition Diagnosis	Completed
14	1	Nutrition Intervention	Completed
15	1	Monitoring and evaluation of patient care.	Completed
16	2	Diabetes Mellitus: Etiology, types, symptoms,	Completed
17	2	Metabolism; complications- Acute and Chronic	Completed
18	2	Diagnostic tests, Blood glucose control and treatment	Completed
19	2	drug-types; insulin types, dosage	Completed
20	2	Influence of physical activity in diabetes	Completed
21	2	Natural and artificial sweeteners and fat substitutes.	Completed
22	2	Dietary management - Nutrition counselling in the management of Diabetes	Completed



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23	2	Thyroid disorders - Hypo and hyperthyroidism	Completed
24	2	tetany- hypocalcemia	Completed
25	2	Adrenal disorders - Introduction,	Completed
26	2	Cushing syndrome	Completed
27	3	Addison's disease	Completed
28	3	Adrenal fatigue	Completed
29	3	Polycysticovariansyndrome	Completed
30	3	Cardiovascular Diseases - Introduction	Completed
31	3	Dyslipidemia	Completed
32	3	Cardio metabolic Syndrome	Completed
33	3	Hyper uricemia	Completed
34	3	Role of antioxidants in cardiac health	Completed
35	3	Nutrition counselling in the management of Cardiovascular Diseases	Completed
36	3	Anaemia - Introduction ,Types.	Completed
37	3	Monocytic and megaloblastic	Completed
38	3	microcytic, sickle cell anemia	Completed
39	3	Hemolytic, Nutritional and Non-nutritional anaemia	Completed
40	3	atherosclerosis,	Completed
41	4	Hypertension	Completed
42	4	Congestive heart failure	Completed
43	4	Nutrition Therapy for Hepatobiliary and Pancreatic disorder- Introduction	Completed
44	4	Liver - Anatomy and Physiology	Completed
45	4	Types of liver diseases	Completed
46	4	Acute liver failure	Completed
47	4	neonatal hepatitis	Completed
48	4	Acute viral hepatitis	Completed
49	4	alcoholic liver disease and types	Completed



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50	4	cirrhosis and its stages	Completed
51	4	hepatic encephalopathy	Completed
52	4	pre and post liver transplantation.	Completed
53	4	Wilson's disease	Completed
54	4	Hemochromatosis.	Completed
55	4	Pancreas - Anatomy and Physiology	Completed
56	4	Pancreatitis	Completed
57	4	Pancreatic cyst	Completed
58	4	Pancreatic cancer.	Completed
59	5	Dietary Management in Pulmonary Diseases and Musculoskeletal Diseases	Completed
60	5	Chronic obstructive pulmonary diseases	Completed
61	5	asthma	Completed
62	5	Arthritis (osteo and rheumatoid),	Completed
63	5	epilepsy,	Completed
64	5	dysphagia	Completed
65	5	Dietary Management in Burns, Stress and Shock. - SIRS	Completed
66	5	Dietary Management in Immune System Diseases	Completed
67	5	AIDS, Hypersensitivity (natural history and prevention)- Allergy, food allergens,	Completed
68	5	antigen absorption, oral challenge procedures,	Completed
69	5	celiac disease (gluten sensitive enteropathy),	Completed
70	5	adverse reactions to MSG and food additives	Completed
71	5	nutraceuticals as immune-boosters and anti- inflammatory agents	Completed



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Lesson Plan Completion Status

Batch	: 2023	Semester	: 2
From	: 04-12-2023	To	: 12-04-2024
Course Code	: 23PCN206	Course Title	: CORE PAPER 6 - CLINICAL BIOCHEMISTRY
Class	: I/CLINICAL NUTRITION	Faculty Name	: Dr. LALITHA RAMASWAMY ..
Section	: Main	No. of Hours Completed	: 56

Session	Unit	Topic	Status
1	1	Carbohydrates - Composition and classification	Completed
2	1	General metabolism – Glycolysis,	Completed
3	1	TCA cycle,	Completed
4	1	Glycogenesis,	Completed
5	1	Glycogenolysis,	Completed
6	1	uronic acid pathway	Completed
7	1	Gluconeogenesis	Completed
8	1	HMP Shunt	Completed
9	1	Glycogen storage diseases	Completed
10	1	clinical importance, regulation and hormonal influences of carbohydrate metabolism.	Completed
11	1	Lipids – Composition and classification ,	Completed
12	2	Metabolism of Lipids,	Completed
13	2	Oxidation of fatty acids,	Completed
14	2	Unsaturated fatty acids,	Completed
15	2	Metabolism of Ketone bodies,	Completed
16	2	Biosynthesis of fatty acids,	Completed
17	2	Biosynthesis of Cholesterol and regulation,	Completed
18	2	Biosynthesis of Bile acids.	Completed
19	2	Biosynthesis of phospholipids	Completed
20	2	cephalin and lecithin,	Completed
21	2	Plasma lipoproteins - Composition, Classification,	Completed



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22	2	Functions, Synthesis, Metabolism and Significance	Completed
23	3	Protein- Composition and classification,	Completed
24	3	Dynamic aspects of protein metabolism	Completed
25	3	– Amino acid pool, nitrogen balance	Completed
26	3	catabolism of amionacids,	Completed
27	3	Urea - formation and its clinical significance	Completed
28	3	, Creatine and Creatinine – synthesis, regulation, creatinuria.	Completed
29	3	Electron Transport Chain,	Completed
30	3	Oxidative phosphorylation and Biological Oxidation Electrolyte	Completed
31	3	Water – Water balance, Acid Base balance	Completed
32	3	Blood buffer system and Metabolism in starvation.	Completed
33	4	Enzymes	Completed
34	4	Enzymes	Completed
35	4	Enzymes inhibition	Completed
36	4	Enzymes of clinical significance	Completed
37	4	Nucleic acids	Completed
38	4	Nucleic acids	Completed
39	4	Protein Biosynthesis	Completed
40	4	Gene therapy –Definition,	Completed
41	4	diseases of genetic origin, approaches to gene therapy	Completed
42	4	Introduction to Genetic engineering.	Completed
43	5	Liver Function tests - liver function tests, diagnostic tests, detoxification, excretory test	Completed
44	5	Gastric Function Test - Test for malabsorption	Completed
45	5	Fat – Qualitative and quantitative analysis	Completed
46	5	Carbohydrate – D-xylose; Lactose breath test – lactose intolerance	Completed
47	5	Hydrogen test – H.Pylori	Completed



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48	5	Schilling's Test – B12;	Completed
49	5	Protein – Serum protein, albumin.	Completed
50	5	Oncogenic markers – classification and clinical uses	Completed
51	5	Radioisotopes – diagnostic and therapeutic uses Cerebrospinal fluid – Clinical significance.	Completed
52	5	Renal function Test - Biological functions of kidneys- manifestation of clinical symptoms	Completed
53	5	classification – glomerular filtration tests, renal plasma flow test, tubular function tests and other miscellaneous tests	Completed
54	5	Thyroid Function Test - Thyroid function – T3 and T4 and TSH,	Completed
55	5	antibodies Cardiac Function test - Tests used to estimate increased risk of cardio vascular disease, C-reactive protein, homocysteine and lipid profile	Completed
56	5	Radiological Investigations – ECG, ECHO, TMT, USG, CT, MRI, DEXA	Completed



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Batch : 2023
From : 05-12-2023
Course Code : 23PCN207
Class : I/CLINICAL
NUTRITION
Section : Main

Lesson Plan Completion Status
Semester : 2
To : 16-04-2024
Course Title : CORE PAPER 7 - BIOSTATISTICS AND RESEARCH METHODS
Faculty Name : Dr. M PUSHPA DEVI.,
No. of Hours Completed : 49

Session	Unit	Topic	Status
1	1	Introduction to research -definition of Research	Completed
2	1	Objectives ,Motivation, Significance of research, Criteria for good research	Completed
3	1	detail on research process – Proforma construction of Research	Completed
4	1	Observation Studies ,Cross – sectional studies ,Cohort study ,Case control study design Randomized Controlled trials.	Completed
5	2	Discussion on Research design and Meaning need features of good design	Completed
6	2	Basic principles, concepts and types of research and Developing a research plan	Completed
7	2	Data collection methods , Sampling methods	Completed
8	2	sampling methods, measurement scale and types of its.	Completed
9	2	sample size, sample error determination, tabulation- presentation and diagram	Completed
10	2	tabulation, Report writing, article and abstract publication.	Completed
11	2	article and abstract publication. discussion	Completed
12	3	Introduction to vital statistics concepts	Completed
13	3	uses of vital statistics and its mechanism for collection of vital statistics	Completed
14	3	Mechanism for collection of vital statistics and basic formulae for calculation of vital statistics	Completed
15	3	introduction about the mortality rates and fertility rates in the vital statistics	Completed
16	3	introduction to health statistics and utilization of basic data	Completed
17	3	utilization of basic data and sources of health statistics	Completed
18	3	sources of health statistics and problems in the collection of sickness of data	Completed



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19	3	discussion on Measurement of Sickness data in the health statistics	Completed
20	3	Hospital statistics and in the health statistics	Completed
21	3	International classification of Diseases and hospital statistics	Completed
22	4	Measures of central tendency introduction	Completed
23	4	Introduction and explain on mean	Completed
24	4	median explain and discussion	Completed
25	4	Median calculation explain	Completed
26	4	Mode introduction and discussion	Completed
27	4	difference between the mean and median , mode explain the merits and demerits	Completed
28	4	Measure of dispersion introduction and solving the problems	Completed
29	4	problem solving in measures dispersion	Completed
30	4	introduction to correlation ,	Completed
31	4	simple correlation solving the problems	Completed
32	4	simple regression introduction	Completed
33	4	solving the problems in regression and correlation	Completed
34	4	simple problems in the regression	Completed
35	4	multiple correlations and multiple regression analysis concept only	Completed
36	4	studying the concepts on correlations and regression	Completed
37	4	probability theory and distributions introduction	Completed
38	4	dealing on basic theoretical concepts on probability theory distributions	Completed
39	4	dealing on basic theoretical concepts on probability theory distributions	Completed
40	5	hypothesis testing in z test for means , proportions	Completed
41	5	proportions, SD'S and finding confidence intervals	Completed
42	5	proportions, SD'S and finding confidence intervals solving the problems	Completed
43	5	t test for single mean and two mean	Completed



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44	5	independent and dependent samples ANOVA introduction	Completed
45	5	ANOVA one way classification only problem solving	Completed
46	5	ANOVA Problem solving	Completed
47	5	chi square test for independent of attributes	Completed
48	5	problem related to nutrition need with chi square	Completed
49	5	chi square test for attributes and homogenous	Completed



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LESSON PLAN

ACADEMIC YEAR : 2023-2024
Faculty Name : Dr. P GOWTHAM .,
Year/Semester/Section : I/II/All
Degree & Branch : CLINICAL NUTRITION
Subject Code & Name : 23PCN2CM & CORE PRACTICAL 2 - CLINICAL BIOCHEMISTRY

S.No	Date	Hours	Topic(s)	Delivery Methods	Links	Book Referred
Unit 1						
1	07/12/2023	1	ESTIMATION OF UREA DAM-TSC METHOD	LAB		
2	07/12/2023	2	ESTIMATION OF UREA DAM-TSC METHOD	LAB		
3	07/12/2023	3	ESTIMATION OF UREA DAM-TSC METHOD	LAB		
4	15/12/2023	1	ESTIMATION OF CREATININE BY JAFFES METHOD	LAB		



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5	15/12/2023	2	ESTIMATION OF CREATININE BY JAFFES METHOD	LAB		
Unit 2						
6	15/12/2023	3	ESTIMATION OF CREATININE BY JAFFES METHOD	LAB		
7	26/12/2023	1	ESTIMATION OF PHOSPHORUS BY FISK AND SUBBAROW METHOD IN URINE	LAB		
8	26/12/2023	2	ESTIMATION OF PHOSPHORUS BY FISK AND SUBBAROW METHOD IN URINE	LAB		
Unit 3						



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9	26/12/2023	3	ESTIMATION OF PHOSPHORUS BY FISK AND SUBBAROW METHOD IN URINE	LAB		
10	04/01/2024	1	ESTIMATION OF UREA BY DAM -TSC METHOD IN SERUM	LAB		
11	04/01/2024	2	ESTIMATION OF UREA BY DAM -TSC METHOD IN SERUM	LAB		
12	04/01/2024	3	ESTIMATION OF UREA BY DAM -TSC METHOD IN SERUM	LAB		
13	12/01/2024	1	ESTIMATION OF URIC ACID BY CARAWAY METHOD IN SERUM	LAB		



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14	12/01/2024	2	ESTIMATION OF URIC ACID BY CARAWAY METHOD IN SERUM	LAB		
15	12/01/2024	3	ESTIMATION OF URIC ACID BY CARAWAY METHOD IN SERUME	LAB		
16	24/01/2024	1	ESTIMATION OF PHOSPHORUS BY FISK AND SUBBAROW METHOD BY SERUM	LAB		
17	24/01/2024	2	ESTIMATION OF PHOSPHORUS BY FISK AND SUBBAROW METHOD BY SERUM	LAB		
18	24/01/2024	3	ESTIMATION OF PHOSPHORUS BY FISK AND SUBBAROW METHOD BY SERUM	LAB		



19	05/02/2024	1	ESTIMATION OF GLUCOSE	LAB		
20	05/02/2024	2	ESTIMATION OF GLUCOSE	LAB		
21	05/02/2024	3	ESTIMATION OF GLUCOSE	LAB		
22	12/02/2024	1	ESTIMATION OF CHOLESTROL BY ZAKS METHOD	LAB		
23	12/02/2024	2	ESTIMATION OF CHOLESTROL BY ZAKS METHOD	LAB		
24	12/02/2024	3	ESTIMATION OF CHOLESTROL BY ZAKS METHOD	LAB		

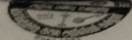


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25	20/02/2024	1	ESTIMATION OF PROTEIN BY LOWRYS METHOD	LAB		
Unit 4						
26	20/02/2024	2	ESTIMATION OF PROTEIN BY LOWRYS METHOD	LAB		
27	20/02/2024	3	ESTIMATION OF PROTEIN BY LOWRYS METHOD	LAB		
28	28/02/2024	1	ESTIMTION OF TRYGLYCERIDES	LAB		
29	28/02/2024	2	ESTIMTION OF TRYGLYCERIDES	LAB		
30	28/02/2024	3	ESTIMTION OF TRYGLYCERIDES	LAB		



31	07/03/2024	1	ESTIMATION OF TOTALAND DIRECT BILIRUBIN	LAB		
32	07/03/2024	2	ESTIMATION OF TOTALAND DIRECT BILIRUBIN	LAB		
33	07/03/2024	3	ESTIMATION OF TOTALAND DIRECT BILIRUBIN	LAB		
34	15/03/2024	1	ESTIMATION OF SERUM ACID PHOSPAHTASE	LAB		
35	15/03/2024	2	ESTIMATION OF SERUM ACID PHOSPAHTASE	LAB		
36	15/03/2024	3	ESTIMATION OF SERUM ACID PHOSPAHTASE	LAB		



Unit 5

37	25/03/2024	1	ESTIMATION OF ALKALINE PHOSPHATASE	LAB		
38	25/03/2024	2	ESTIMATION OF ALKALINE PHOSPHATASE	LAB		
39	25/03/2024	3	ESTIMATION OF ALKALINE PHOSPHATASE	LAB		
40	03/04/2024	1	ESTIMATION OF SGOT	LAB		
41	03/04/2024	2	ESTIMATION OF SGOT	LAB		
42	03/04/2024	3	ESTIMATION OF SGOT	LAB		
43	12/04/2024	1	ESTIMATION OF SGPT ALANINE TRANSAMINASE	LAB		



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44	12/04/2024	2	ESTIMTAION OF SGPT ALANINE TRASAMINASE	LAB		
45	12/04/2024	3	ESTIMTAION OF SGPT ALANINE TRASAMINASE	LAB		

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Batch : 2023
From : 04-12-2023
Course Code : 23PCN2E2
Class : I/CLINICAL
Section : NUTRITION
Main

Lesson Plan Completion Status

Semester : 2
To : 12-04-2024
Course Title : MAJOR ELECTIVE PAPER 2 - FOOD SERVICE MANAGEMENT
Faculty Name : Dr. M PUSHPA DEVI.,
No. of Hours Completed : 61

Session	Unit	Topic	Status
1	1	Theories and principles management;	Completed
2	1	functions of management and Tools of management;	Completed
3	1	Strategy of effective management and History of food services;	Completed
4	1	History of food services and Traditional food service system;	Completed
5	1	Commercial and non-commercial food service units and Innovations in food service systems;	Completed
6	1	discuss on Food service planning & management	Completed
7	1	Catering Establishment Act and Food laws;	Completed
8	1	Computer aided record maintenance and management.	Completed
9	2	Human Resource management and Personnel Development and policies;	Completed
10	2	administrative personnel; labor policies and legislation	Completed
11	2	human resource planning; recruitment, selection,	Completed
12	2	human resources mgt in induction training and development;	Completed
13	2	Performance Evaluation Employee facilities and benefits.	Completed
14	2	Employee benefits. Leadership qualities of manager.	Completed
15	2	Conceptual Perspective of Entrepreneurship	Completed
16	2	Characteristics of Successful Entrepreneurs, Developing the Business Plan,	Completed
17	2	Entrepreneurship Development and Training,	Completed
18	2	Merchandising Skills, Marketing strategies	Completed
19	2	Characteristic of successful Entrepreneurs, Developing the business plan,	Completed
20	2	Entrepreneurship development and training, merchandising skills	Completed



21	2	Merchandising skills , Marketing strategies	Completed
22	3	Quantity Food Production and service, Introduction to Menu- Meaning	Completed
23	3	points for planning the menu, compiling simple menus	Completed
24	3	Purchasing receiving, storing and issuing of foods	Completed
25	3	food production methods, food production control	Completed
26	3	methods of food control, food control check list, food service methods	Completed
27	3	food control check list, food service methods	Completed
28	4	Introduction to physical facilities - food service industry	Completed
29	4	Determine the equipment and selection of the equipment in the food service unit.	Completed
30	4	selection and purchase of the equipment in the food service unit.	Completed
31	4	placement and maintenance of the equipment in food service unit	Completed
32	4	layout facilities in food service unit and steps in planning of layouts.	Completed
33	4	feasibility and design for food service operations - space allowance and relationship	Completed
34	4	introduction to schematic drawing and work areas importance of flooring	Completed
35	4	importance of flooring and lighting in food service units.	Completed
36	5	introduction to accounting and records in food service units .	Completed
37	5	financial planning and financial operation	Completed
38	5	a system of records and reports in financial operation	Completed
39	5	computer aided record maintenance in food service unit	Completed
40	5	introduction to cost control in food and labor	Completed
41	5	food cost control , labor cost control	Completed
42	5	labor cost control and overhead cost control	Completed
43	5	introduction to book keeping	Completed



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44	5	discussion on journal ledger, and trial balance sheets , balance sheet	Completed
45	5	profit and loss account in the booking keeping	Completed
46	5	introduction to sanitation and hygiene	Completed
47	5	Food hygiene importance in the food service unit	Completed
48	5	personal hygiene importance of food service unit	Completed
49	5	steps to followed for the personal hygiene	Completed
50	5	discussion on different food hygiene and food infection	Completed
51	5	modes of food infection and prevention to take care in food service unit	Completed
52	5	fire safety measures in food service unit	Completed
53	5	environment hygiene introduction	Completed
54	5	steps and methods to prevent the environmental hygiene	Completed
55	5	accidents and prevention and training introduction	Completed
56	5	steps in the accidents prevention and training for the food service unit	Completed
57	5	fire safety measures and discussion for the employee	Completed
58	5	Haccp introduction for the employee in the food service unit	Completed
59	5	steps in the haccp for the food service unit	Completed
60	5	Fssai, food misbranding and adulteration	Completed
61	5	discussion the different act for the food unit	Completed



Batch : 2023
From : 04-12-2023
Course Code : 23PGI2N1
Class : I/CLINICAL
Section : NUTRITION
Main

Lesson Plan Completion Status
Semester : 2
To : 16-04-2024
Course Title : NON MAJOR ELECTIVE PAPER 1 - INFORMATION SECURITY
Faculty Name : HARINEE N,
No. of Hours Completed : 32

Session	Unit	Topic	Status
1	1	Information Security basics: Definition of Information Security	Completed
2	1	History of Information Security - Characteristics of Information Security	Completed
3	1	Components of Information Security	Completed
4	1	Security System Development Life Cycle (SDLC).	Completed
5	1	Information Security for technical administrators: Server Security	Completed
6	1	Information Security for technical administrators Network security- Social Media Security.	Completed
7	2	Cryptography: Basic concepts	Completed
8	2	- plain text - Cipher text - Encryption Principles	Completed
9	2	CRYPT Analysis	Completed
10	2	Cryptographic Algorithms	Completed
11	2	Cryptographic Tools – Authentication	Completed
12	2	-Biometrics - passwords -	Completed
13	2	Access Control Devices	Completed
14	2	Physical Security - Security and Personnel.	Completed
15	2	Language-based Security: Analysis of code for security errors, Safe language and sandboxing techniques.	Completed
16	3	Firewalls - Application and Circuit Proxies - Stateful	Completed
17	3	Viruses & Worms	Completed
18	3	Logical Design: Access Control Devices- Physical Security- Security and Personnel - NIST	Completed
19	3	Models-VISA International Security Model- Design of Security Architecture-Planning for Continuity.	Completed
20	4	Hacking : Introduction – Hacker Hierarchy	Completed



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21	4	Password cracking – Phishing	Completed
22	4	Network Hacking -Wireless Hacking	Completed
23	4	Windows Hacking - Web Hacking- Ethical Hacking.	Completed
24	4	Security Investigation: Need for Security- Business Needs	Completed
25	4	Threats- Attacks- IP Addressing and Routing - Social Media	Completed
26	5	Cyber Laws : What is Cyber Law?	Completed
27	5	Need for Cyber laws	Completed
28	5	Common Cyber Crimes and Applicable Legal Provisions	Completed
29	5	A Snapshot - Cyber Law (IT Law) in India	Completed
30	5	The Information Technology Act of India 2000	Completed
31	5	Cyber Law and Punishments in India	Completed
32	5	Cyber Crime Prevention guide to users Regulatory Authorities.	Completed