

B.C.S. GOVT. P.G. COLLEGE, DHAMTARI

TEACHING PLAN 2015-16 July to Dec.

01. NAME OF TEACHER

DURGESH PRASAD

02. DEPARTMENT

LAW

03. CLASS

LL-B Part I Sem I

04. PAPER/SUBJECT

Contract I & Legal History

REMARK

MONTH	UNIT	PAPER TO BE COVERED	REMARK
Aug		Introduction about contract to Privity of contract	
Sept		Exception of privity of contract to quasi-contract.	
Oct		Damages to specific performance.	
Nov		Constitutional Development to Contingent Contract	
Dec		Staya Boat ghose v/s Relief Act.	

Durgesh Prasad
Subject Teacher

Durgesh Prasad
Head of Department

PRINCIPAL
Govt. P.G. College
Dhamtari (C.G.)

Principal
Durgesh Prasad

B.C.S. GOVT. P.G. COLLEGE, DHAMTARI

July to Dec 17

TEACHING PLAN 2016-17

01. NAME OF TEACHER

DURGESH PRASAD

02. DEPARTMENT

LAW

03. CLASS

U.B. Part I. Sem I

04. PAPER/SUBJECT

Law of Tort & Consumer Protection Law

MONTH	UNIT	PAPER TO BE COVERED	REMARK
August		Definition of Torts Nature scope, object Immunities Justification	
Sept.		wrongs relating to Person & Property relations.	
Oct		Negligence, Nuisance Defamation	
Nov.		The Motor vehicles Act 1988 To The Consumer Protection Act 1986	
Dec.		All headings Cases.	

Subject Teacher

Head of Department

Principal

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TEACHING PLAN 2017-18

July to Dec.

01. NAME OF TEACHER

DURGESH PRASAD

02. DEPARTMENT

LAW

03. CLASS

LL.B. Part I Sem I

04. PAPER/SUBJECT

Law of Torts

MONTH	UNIT	PAPER TO BE COVERED	REMARK
Aug.		Introduction about law of Torts. to nature of Torts purpose.	
Sept		General Principles of Liability To License & License.	
Oct		Remedies of Tort To false Imprisonment.	
Nov.		Malicious Prosecution To Motor Accident Tribunal.	
Dec.		Refresher Course.	

Durgesh Prasad
Subject Teacher

Durgesh Prasad
Head of Department

Principal
D.D.

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TEACHING PLAN 2018-19

Aug to Jan

01. NAME OF TEACHER

DURGESH PRASAD

02. DEPARTMENT

LAW

03. CLASS

LL.B. Part I Sem I

04. PAPER/SUBJECT

Law of Torts

MONTH	UNIT	PAPER TO BE COVERED	REMARK
Aug		Definition of Torts To Immunities	
Sept		Justification & Defences in to State Liability	
Oct		P & O Steam Navigation Company To fair comment.	
Nov.		Privilege as Defences To Execution of order by consumer.	
Dec.		Indian Medical Care. Transpor ^{to} by animal Trespass	
Jan		Exam.	

Durgesh Prasad
Classical Teacher

Durgesh Prasad
Head of Department

Principal

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TEACHING PLAN 2019-20

01. NAME OF TEACHER

DURGESH PRASAD

02. DEPARTMENT

LAW

03. CLASS

LL-B. Part I Sem I

04. PAPER/SUBJECT

LAW OF TORTS & Consumer

Protection Law

MONTH	UNIT	PAPER TO BE COVERED	REMARK
Aug.		Historical Background To Course of Employment	
Sept		Cases of Course of Employment to Inevitable Accident	
Oct		Principles of Last opportunity Rule to Deficiency of goods.	
NOV.		Definition of Defect & Deficiency To Document & detain vehicles	
Dec.		Definition of Defect & Deficiency to Document & detain vehicles	

Durgesh Prasad
Subject Teacher

Durgesh Prasad
Head of Department

Principal

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TEACHING PLAN SESSION-2017-18

NAME OF TEACHER :- Amar singh sahu

DEPARTMENT :- COMMERCE.

CLASS :- B.Com-III

PAPER/SUBJECT :-AUDITING

MONTH	UNIT	PAPER TO BE COVERED	REMARK
SEPTEMBER	1	Introduction : Meaning and objectives of auditing; Types of audit; Internal audit. Audit Process : Audit programme; Audit note books; Working papers and evidences.	At the end of month Unit Test is proposed
OCTOBER	2	Internal Check System : Internal control. Audit Procedure : Vouching : Verification of assets and liabilities.	At the end of month Unit Test is proposed
NOVEMBER	3	Audit of Limited Companies : a. Company auditor - Appointment, powers, duties, and liabilities. b. Divisible profits and dividend. c. Auditor's report - standard report and qualified report. d. Special audit of banking companies. e. Audit of educational institutions. f. Audit of Insurance companies.	At the end of month Unit Test is proposed
DECEMBER	4	Investigation : Investigation; Audit of non profit companies, a. Where fraud is suspected, and b. When a running a business is proposed. c. Varifications & Valuation of assets.	At the end of month Unit Test is proposed
JANUARY	5	UNIT-V Recent Trends in Auditing : Nature and significance of cost audit; Tax audit; Management audit. Company auditing - Qualification, Appointment, Resignation and liabilities.	At the end of month Unit Test is proposed
FEBRUARY	5	REVISION	At the end of month Unit Test is proposed

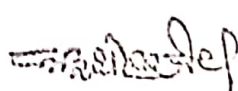
Suggested Reading :

1. Gupta KaPal : Contemporary Auditing : Tata Mcgraw Hill, New Delhi.
2. Tandon B.N. : Principles of Auditing : S. Chand & Co., New Delhi.
3. Pagare Dinkar : Principles and Practice of Auditing : Sultan Chand, New Delhi.
4. Sharma T.R. : Auditing Principles and Problems, Sahitya Bhawan, Agra.
5. Shukla S.M. : Auditing - Shahitya Bhavan, Agra, (Hindi)


SUBJECT TEACHER


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TEACHING PLAN SESSION-2018-19

NAME OF TEACHER :- Amar singh sahu

DEPARTMENT :- COMMERCE.

CLASS :- B.Com-I

PAPER/SUBJECT :- BRFW

MONTH	UNIT	PAPER TO BE COVERED	REMARK
SEPTEMBER	1	Law of contract(1872) nature ; Classification; offer and Acceptance; Capacity of Parties to contract, consideration, legality of Object, Agreement Declared void	At the end of month Unit Test is proposed
OCTOBER	2	Performance of contract, discharge of contract, remedies for breach of contract Special contract, Indemnity; Guarantee Bailment and Pledge agency	At the end of month Unit Test is proposed
NOVEMBER	3	Sales of goods(1930)Formation of contract of sales, Goods and their Classification, Price, Condition and Warranties, Transfer of Properties on Goods of the contract of SALES Unpaid seller and his right; sale and his hire purchase agreement	At the end of month Unit Test is proposed
DECEMBER	5	The Consumer Protection act (1986) Main Provision, Definition Of Co Consumer, consumer Dispute, Grievance Redressed Machinery Indian Partner Ship Act 1932, Limited Liabilities, Partnership Act2008 Definition of negotiable instrument feature;	At the end of month Unit Test is proposed
JANUARY			
FEBRUARY	4	Promissory note; Bills of Exchange & Cheque Holder And Holder In The Due Course Crossing of a Cheque tyoe of Crossing Negotiable Dishonor and Discharge of Negotiable instrument	At the end of month Unit Test is proposed

SUBJECT TEACHER

HOD

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TEACHING PLAN SESSION-2019-20

NAME OF TEACHER :- Amar singh sahu

DEPARTMENT :- COMMERCE.

CLASS :- B.Com-I

PAPER/SUBJECT :- BRFW

MONTH	UNIT	PAPER TO BE COVERED	REMARK
SEPTEMBER	1	Law of contract(1872) nature ; Classification; offer and Acceptance; Capacity of Parties to contract, consideration, legality of Object, Agreement Declared void	At the end of month Unit Test is proposed
OCTOBER	2	Performance of contract, discharge of contract, redimies for breach of contract Special contract, Indemnity; Guarantee Bailment and Pledge agency	At the end of month Unit Test is proposed
NOVEMBER	3	Sales of goods(1930)Formation of contract of sales, Goods and their Classification, Price, Condition and Warranties, Transfer of Properties on Goods of the contract of SALES Unpaid seller and his right; sale and his hire purchase agreement	At the end of month Unit Test is proposed At the end of month Unit Test is proposed
DECEMBER	5	The Consumer Protection act (1986) Main Provision, Definition Of Co Consumer, consumer Dispute, Grievance Redressed Machinery Indian Partner Ship Act 1932, Limited Liabilities, Partnership Act2008 Definition of negotiable instrument feature;	
JANUARY			
FEBRUARY	4	Promissory note; Bills of Exchange & Cheque Holder And Holder In The Due Course Crossing of a Cheque tyoe of Crossing Negotiable Dishonor and Discharge of Negotiable instrument	At the end of month Unit Test is proposed

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B.C.S GOVT. P. G. COLLEGE, DHAMTARI

TEACHING PLAN 2019 - 20

01. NAME OF TEACHER - SMT. RITA LAKRA
 02. DEPARTMENT - HOME SCIENCE
 03. CLASS - B.Sc (HOME SCIENCE) Part-I
 04. SUBJECT - BASIC NUTRITION
 05. PAPER - GROUP - II, PAPER - A

MONTH	UNIT	PAPER TO BE COVERED	REMARK
June		Admission work	
July	I	* Concept of Nutrition * Health * Functions of Food * Basic Terminology * Methods of Cooking	
August	II	* Nutrients: Macro nutrients * Practical	Test
September	II	* Nutrients: Macro nutrients * Practical	Test
October	III	* Nutrients: Micro nutrients * Practical	
November	IV	* Food - Cereals, Pulses, Fruits * Practical	Test
December	IV	* Food - Vegetables, Milk, Nuts, * Meat, Fish, Poultry and Eggs * Practical	Test
January	IV V	* Beverages * Condiments and spices * Improving Nutritional quality of Foods * Practical	Pre University Examination
February	V	* Improving Nutritional quality of Foods	Annual Practical Examination

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TEACHING PLAN 2018 - 19

01. NAME OF TEACHER - SMT. RITA LAKRA
02. DEPARTMENT - HOME SCIENCE
03. CLASS - B.Sc. (HOME SCIENCE) PART - II
04. SUBJECT - COMMUNICATION PROCESS IN DEVELOPMENT
05. PAPER - GROUP - III, PAPER - B

MONTH	UNIT	PAPER TO BE COVERED	REMARK
June		Admission Work	
July	<u>I</u>	* Concept, Meaning, importance, purpose of communication in development	
August	<u>II</u>	* Communication Process * Practical	Test
September	<u>III</u>	* Methods of communication in development Methods to reach individuals * Practical	Test
October	<u>IV</u>	* Methods of communication in development * Practical	
November	<u>IV</u>	* Methods of communication in development * Practical	Test
December	<u>V</u>	* Media for development communication * Folk Media * Print Media * Practical	Test
January	<u>VI</u>	* Audio - Visual Media * Practical	The University Examination
February		* Revision	Annual Practical Examination


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TEACHING PLAN 2017

01. NAME OF TEACHER - SMT. RITA LAKRA
 02. DEPARTMENT - HOME SCIENCE
 03. CLASS - M.Sc (HOME SCIENCE) PREVIOUS 4th SEMESTER
 04. SUBJECT - RESEARCH METHODOLOGY
 05. PAPER - I

MONTH	UNIT	PAPER TO BE COVERED	REMARK
June		Admission Work	
July	I	* Science, Scientific, methods, Scientific approach * Role of Research in H.Sc. discipline. * Objective of research * Types of research.	
August	I II	* Pre-testing and pilot survey * Research problem * Fact, Theory and concept * Hypothesis	Test
September	II III	* Types of variables * Basic principles of research Design * Data gathering instrument	
October	III IV	* Data gathering instrument * Theory of probability	
November	IV V	* Sampling * Classification and tabulation of data	Test Seminar
December	V	* Analysis and interpretation of data * Preparation of report * Diagrammatic presentation of data	Test Seminar

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TEACHING PLAN 2016 - 17

01. NAME OF TEACHER - SMT. RITA LAISRA
 02. DEPARTMENT - HOME SCIENCE
 03. CLASS - B.Sc. (HOME SCIENCE) PART-III
 04. SUBJECT - EXTENSION EDUCATION
 05. PAPER - GROUP-III, PAPER-B

MONTH	UNIT	PAPER TO BE COVERED	REMARK
June		Admission Work	
July	I	* Concept of Education * Meaning and Origin of Extension * Extension Education Process	
August	I II	* Communication Process * Concept of adult education * Practical	Test
September	II	* Non formal education * Five Year Plans * Practical	Test
October	III	* Food production * Poverty alleviation * Practical	
November	IV	* Programmes for women and children * Practical	Test
December	IV	* Role of NGOs * Advertising Media - Print Media * Practical	Test
January	V	* Broadcast media * Non-media advertising * Outdoor advertisement * Practical	Pre University Examination
February	V	* Transportation media * Exhibition and Trade fair	Annual Practical Examination

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TEACHING PLAN 2020-21

01. NAME OF TEACHER SMT SAROJ PRASAD, Assistant Professor
02. DEPARTMENT HOME SCIENCE
03. CLASS B. Sc (H Sc) 1ST
04. PAPER/SUBJECT Introduction to Textile and clothing

1920 college (1)

MONTH	UNIT	PAPER TO BE COVERED
JULY	Unit I	Classification of Textile A. Introduction and classification of Textiles Terminology in textiles. B. History composition types. Production properties and uses. cotton linene wool silk rayon polyimide polyester and Acrylic Fibers.
AUGUST	Unit II	Study of Yarns methods of spinning, making of spinning, making of sewing threads simple novelty .Metallic and texturised yarns. Stretch corespun bi and multi component yarns - characteristics of yarns numbering system , cotton count Denier tex conversion , From one to the other.
SEPTEMBER	UNIT -III	Finishes ,physical & singing napping , bushing , shearing , sizing shrinking , tendering cleaning etc. Chemical , bleaching , mercerizing, special purpose finishes. Soil release & resistant antiprinting dyeing & printing.
OCTOBER	Unit IV	Equipment - Equipment & supplies uses in clothing. Construction their maintenance. Problems faced remedies with specific reference to sewing machine.
NOVEMBER	Unit IV	Selection of Fabrics , Factors influencing ,selection of Fabrics , budget, age , season , occupation
December	Unit IV	Figure Fashion occasion etc
January	Unit v	Principals of clothing construction - General Principals of clothing construction drafting and making paper patterns
February	Unit V	Taking body measurements for different types of garments Preparation of Fabrics For Government making laying out of patterns cutting and marking.


Subject Teacher


Head of Department


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TEACHING PLAN SESSION-2015-16

NAME OF TEACHER :- SEEMA SAHU
DEPARTMENT :- IT DEPARTMENT
CLASS :- BCA-III YEAR
PAPER/SUBJECT :- OPERATING SYSTEM

MONTH	UNIT	PAPER TO BE COVERED	REMARK
August	UNIT-I	basic concept operating system, views of operating system, types of operating system -batch processing, spooling, multiprogramming, time sharing, real time systems, protection, multiprocessor system, operating system as resource manager, process view point, functions of operating system-memory management, process management, device management and information management.	Unit test proposed
September	UNIT-II	Processor Management (CPU Scheduling) scheduling concept, basic concept, CPU I/O burst cycle process state, PCB (Programme Control Block) scheduling queries, schedulers, performance criteria, scheduling algorithms - first-come - first served shortest job – first.	
October	UNIT –II UNIT-III	priority, preemptive algorithm, round robin, multilevel queues and multilevel feedback queues, algorithm evolution, multiprocessor scheduling , separate system, master / slave scheduling. Preliminaries of memory management, memory handling in M/C, relocation, swapping and swap time calculation, multiple partitions, partitioned allocation MFT, fragmentation, MVT, compaction, paging, job scheduling	Unit test proposed
November	UNIT-III	implementation of page tables, shared page, virtual memory-overlays, concepts of virtual memory demand page, memory management and performance, page replacement and page replacement algorithms. Allocation algorithms	
December	UNIT-III	Storage hierarchy disk and drum scheduling - physical characteristics fcfs scheduling SCAN, short of seek time first disk scheduling algorithms sector queuing	Unit test proposed


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	Unit -IV	File concept, file type, typed based system, disk based system, general model of file system, file directory maintenance, symbolic file system, basic file system, physical file system, file support device directory, access methods free space management contiguous, linked allocation and indexed allocation performances.	Unit prop
February	UNIT-V	The Dead Lock problem - Dead Lock definition, Dead Lock detection, detection algorithm usage, Dead Lock characterization, resource allocation graph, Dead Lock prevention, mutual exclusion, hold and wait, no preemption and circular wait, dead lock avoidance-bankers algorithm. Recovery from Dead Lock process termination, resource preemption, combined approach to Dead Lock handling	Unit prop

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TEACHING PLAN SESSION-2016-17

NAME OF TEACHER :- SEEMA SAHU
DEPARTMENT :- IT DEPARTMENT
CLASS :- BCA-I YEAR
PAPER/SUBJECT :- VISUAL BASIC

MONTH	UNIT	PAPER TO BE COVERED	REMARK
JULY	UNIT-I	Hardware requirements, features of VB, Editions of Visual Basic, and Event Driven Programming vs procedure oriented programming , Introduction to Integrated Development Environment and its components.	
AUGUST	UNIT-I	Basic concepts of Visual Basic programming: Controls, properties, methods, events, forms, projects. Creating Executable files. Variables, constants, data types, data conversion function., scope of variables Operators Control Structure : Conditional / branching statements : If...else..endif, Select case Looping statements: do.. while, for.. next, for each, exiting a loop, goto statement, msgbox and input box functions.	Unit test proposed
SEPTEMBER	UNIT-II	Arrays: types of arrays, array manipulation, Working with standard controls. Working with control array, various key and mouse events, using drag and drop concepts.	
OCTOBER	UNIT-II	Procedure and Functions: types of function, library function, date and time function, format function, and string related function, validation function. Creating user defined function & procedure, call by value and call by reference, concept of recursion, working with basic module, class module and form module.	Unit test proposed
NOVENBER	UNIT-III	Working with Advanced Controls: toolbar, status bar, tabbed dialog controls, progress bar, animation controls, dtpicker, calendar, common dialog control.	


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DECEMBER	UNIT-III UNIT-IV	SDI & MDI Application: creating MDI application, menu editor: defining menu & popup menu, sub main, startup objects. Working with graphics control and using graphic methods. Error Handling: Types of errors, error trapping tools: watch window, local window, immediate window, debug menu, tracing program flow with call stack, the err object, error function, error handling routines : on error goto statements.	Unit : propose N D C P
JANURARY	UNIT-IV	File Handling: type of file handling, Sequential file handling: reading, writing and appending in file, understanding user defined data type, Random access file: reading, writing and appending in file.	Unit test proposed
FEBRURY	UNIT-V	Basic concepts of relational database, visual data manager, introduction to SQL, concept of ODBC, Overview of DAO and RDO, Using DAO and RDO to access data. ADO features, difference among ADO, DAO and RDO, accessing and manipulating database using ADO, ADO object hierarchy, concept of recordset and its type, connection object, command object. Data Environment: accessing data using data environment, Report Generation: Overview of Data Report, creating Data report, adding groups, data report functions. Crystal Report Writer.	Unit test proposed

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TEACHING PLAN SESSION-2017-18

NAME OF TEACHER

:- SEEMA SAHU

DEPARTMENT

:- IT DEPARTMENT

CLASS

:- PGDCA-I SEM

PAPER/SUBJECT

:- OFFICE AUTOMATION

MONTH	UNIT	PAPER TO BE COVERED	REMARK
July	Unit-I	Windows Concept and features ,Versions, Desktop, Taskbar, Start menu, My Computer, Recycle Bin. Accessories- character Map, Calculator, Notepad, Paint, WordPad . Explorer- Creating Folder and other Facilities	
August	Unit-I Unit-II	Explorer- Creating Folder and other Facilities OLE-Concept, Cut and Paste, Concept of Operating System. Word- Creating document, opening ,saving, Save As, Formatting Document, Paragraph formatting, Page formatting, Page Setup, Mail Merge ,Tables, Graph, Graphics Handling, convert different formats	
September	Unit-III	Excel- Basics of worksheet, workbook, opening, saving, Save As ,Moving worksheet, Printing Worksheet, Ranges of cell ,Formula and Functions ,cell referencing- absolute and relative, Graph and Charts, Goal Seek, macro.	
October	Unit-III	Power Point- creating presentation , modify presentation , Adding Objects, Applying Transition , animations, linking, handouts, Presenting Slide Show.	
November	Unit-IV	FoxPro- Concept of Database, Creating Database files, Accessing, and retrieval of database file, Insertion and deletion of records. Programming preliminaries, sorting and indexing, Looping control, Branching Controls, creation of records.	
December	Unit-V	Tally- ledger, groups, vouchers, creating a ledger, altering and deleting ledger, creating Company, adding Bills, Income Tax.	

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TEACHING PLAN SESSION-2018-19

NAME OF TEACHER :- SEEMA SAHU

DEPARTMENT :- IT DEPARTMENT

CLASS :- PGDCA-I SEM

PAPER/SUBJECT :- OFFICE AUTOMATION

MONTH	UNIT	PAPER TO BE COVERED	REMARK
July	Unit-I	Windows Concept and features ,Versions, Desktop, Taskbar, Start menu, My Computer, Recycle Bin. Accessories- character Map, Calculator, Notepad, Paint, WordPad . Explorer- Creating Folder and other Facilities	
August	Unit-I Unit-II	Explorer- Creating Folder and other Facilities OLE-Concept, Cut and Paste, Concept of Operating System. Word- Creating document, opening ,saving, Save As, Formatting Document, Paragraph formatting, Page formatting, Page Setup, Mail Merge ,Tables, Graph, Graphics Handling, convert different formats	
September	Unit-III	Excel- Basics of worksheet, workbook, opening, saving, Save As ,Moving worksheet, Printing Worksheet, Ranges of cell ,Formula and Functions ,cell referencing- absolute and relative, Graph and Charts, Goal Seek, macro.	
October	Unit-III	Power Point- creating presentation , modify presentation , Adding Objects, Applying Transition , animations, linking, handouts, Presenting Slide Show.	
November	Unit-IV	FoxPro- Concept of Database, Creating Database files, Accessing, and retrieval of database file, Insertion and deletion of records. Programming preliminaries, sorting and indexing, Looping control, Branching Controls, creation of records.	
December	Unit-V	Tally- ledger, groups, vouchers, creating a ledger, altering and deleting ledger, creating Company, adding Bills, Income Tax.	

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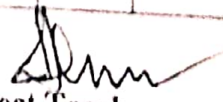
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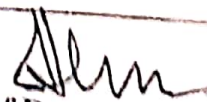
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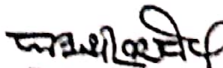
01. NAME OF TEACHER P.C. Choudhury
 02. DEPARTMENT English
 03. CLASS BA Part I
 04. PAPER/SUBJECT English Literature - Paper I & II

MONTH	UNIT	PAPER TO BE COVERED	REMARK
July 2019	Paper I - Unit I	Introductory classes	
August-19	Paper I - Unit II	Shakespeare & Milton's Sonnets. Poems of John Donne	
September	Paper II - Unit III	Dryden & Pope's Poems.	
	Paper II - Unit II	Blake, Wordsworth, Coleridge	
	Paper II - Unit III	Shelley, Keats, Tennyson, Browning	
October '19	Paper I - Unit IV	Bacon's Essays. Addison's essay. Steele's essay.	
November '19	Paper II - Unit IV	Charles Lamb: Dream Children Hazlitt - Actors & Acting.	
	Paper I - Unit V	Shakespeare - The Merchant of Venice	
December '19	Paper II - Unit V	Jane Austen - Pride & Prejudice	
	Unit VI	Charles Dickens - David Copperfield	
January '20	Paper I - Unit VI	The Battle of the Books by Swift.	
	Unit VII	Historical & Literary Topics (all the ten).	
February '20	Paper II - Unit VII	Historical & Literary Topics (all the ten)	

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 Subject Teacher


 Head of Department


 Principal

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TEACHING PLAN 2018-19

NAME OF TEACHER

P. C. Choudhury

DEPARTMENT

English

CLASS

Bee I (Bio, Maths, IT)

PAPER/SUBJECT

FC - Paper II - English Language

DATE	UNIT	PAPER TO BE COVERED	REMARK
July & Aug. 2018	-	Grammatical Contents.	
September 18	-	Grammatical Contents + Lesson 1.	
October 18	-	Lesson 2 and Lesson 3	
November 18	-	Lesson 4 and Lesson 5 Paragraph Writing	
December 18	-	Lesson 6 and Lesson 7 Letter Writing	
January 2019	-	Lesson 8 and Lesson 9	
February 2019	-	Lesson 10 and Lesson 11	

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Dhamtari (C.G.)

Subject Teacher

Head of Department

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B.C.S. GOVT. P.G. COLLEGE, DHAMTARI

TEACHING PLAN 2017-2018

P.C. Choudhury

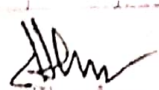
English

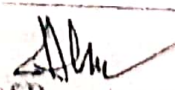
B. A. I

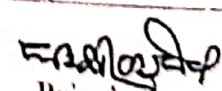
English Literature Paper I & II

MONTH	UNIT	PAPER TO BE COVERED	REMARK
July & Aug 2017	Paper I Paper II	Literary Forms & Kinds of Literature (Poetry, Prose, Drama, Fiction)	
September 2017	Paper I	Unit 2 - Poetry: Shakespeare, Milton, Donne Unit 3 - Poetry: Dryden and Pope.	
October 2017	Paper II	Unit 2 - Poetry: Blake, Wordsworth, Coleridge Unit 3 - Poetry: Shelley, Keats, Tennyson, Browning	
November 2017	Paper I	Unit IV - Prose: Baum, Addison, Steele Unit V - Shakespeare - The Merchant of Venice	
December 2017	- do - Paper II	Unit VI - Swift - Battle of Books. Unit 4 - Prose: Lamb & Hazlitt Unit 5 - Jane Austen - Pride & Prejudice	
January 2018	- do -	Unit 6 - Charles Dickens - David Copperfield Unit 7 - Historical & Literary Topics (all 10)	
February 2018	Paper II	Unit 7 - Historical & Literary Topics (all 10). Revision.	


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Head of Department


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TEACHING PLAN 2016-2017

TEACHER

P. C. Choudhury

DEPARTMENT

English

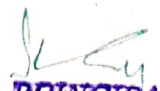
COURSE

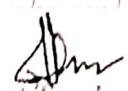
BA Part I

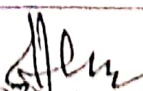
SUBJECT

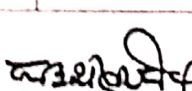
English Literature Paper I & II

DATE	UNIT	PAPER TO BE COVERED	REMARK
August '16	Paper I Unit II	Introductory lectures. Paper I; Shakespeare - Sonnets. Milton - Sonnet.	
September '16	- do - Unit III	Donne - Sweetest Love; This is my play --- Dryden - portrait of Shadwell Pope - from Essay on Criticism	
	Paper II Unit II	- Blake - Tiger Tiger --- Wordsworth - Daffodils, The Solitary Reaper Coleridge - Frost at Midnight.	
October '16	Paper II Unit III	- Shelley - Ode to a Skylark	
November '16	- do -	Keats - Ode to Autumn Tennyson - Crossing the Bar Browning - Prosopopeia	
December '16	Paper I Unit IV	- Bacon - Three essays. Addison - Sir Roger at home Steele - of the club.	
January '17	Paper I Unit V Unit VI	Shakespeare - The Merchant of Venice J. Swift - The Battle of Books.	
February '17	Paper II Unit IV Unit V Unit VI	Charles Lamb - Dream children Hazlitt - Actors and Acting Jane Austen - Pride & Prejudice Charles Dickens - A Tale of Two Cities.	


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TEACHING PLAN 2015-16

01. NAME OF TEACHER

P. C. Choudhury

02. DEPARTMENT

English

03. CLASS

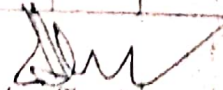
BA I

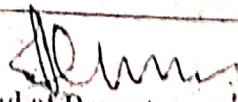
04. PAPER/SUBJECT

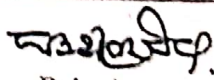
English literature (BA I, II, III)

MONTH	UNIT	PAPER TO BE COVERED	REMARK
July '15	Paper I	Introductory classes - Unit II - Poetry Shakespeare's Sonnets.	
August '15	1) Unit - II - Milton, Donne Unit - III - Dryden and Pope Paper II - Unit - II - Blake		
September '15	1) Unit - II - Wordsworth, Coleridge 1) Unit - III - Shelley, Keats, Tennyson, Browning		
October '15	Paper I - Unit IV - Bacon, Addison, Steele		
November '15	Paper I - Unit - V - Shakespeare - "The Merchant of Venice"		
December '15	Paper I - Unit - VI - The Battle of the Books. Paper II - Unit - IV - Lamb and Hazlitt		
January '16	Paper II - Unit - V - Jane Austen - Pride & Prejudice Charles Dickens - David Copperfield		
February '16	Paper I - Unit - VII - Historical/Literary Topics. Paper II - Unit - VII - Historical & Literary Topics.		

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TEACHING PLAN 2017 - 18

01. NAME OF TEACHER.

02. DEPARTMENT

03. CLASS

04. PAPER/SUBJECT

डॉ. प्रभा वैरुलकर

राजनीति विभाग

बी.एस.पार्ट - I

म पेपर - राजनीति विभाग

MONTH	UNIT	PAPER TO BE COVERED	REMARK
जुलाई-17 (A+B)	1	भारतीय संविधान का निर्माण एवं भारतीय संविधान के स्तोत्र	
अगस्त-17	1	भारतीय संविधान की आधारभूत विशेषताएं मूल अधिकार एवं मूल कर्तव्य	माह के अंतिम सप्ताह में जांच परीक्षा प्रस्तावित
सितम्बर-17	1 2	राज्य के नीति निर्देशक तत्व राष्ट्रपति के अधिकार एवं शक्तियां	माह के अंतिम सप्ताह में जांच परीक्षा प्रस्तावित
अक्टूबर-17	2	मंत्री परिषद की रचना - कार्य - मंत्री परिषद मंत्री मंडल में अंतर - प्रधानमंत्री की कार्य शक्तियां	माह के अंतिम सप्ताह में जांच परीक्षा प्रस्तावित
नवम्बर 17	3	राज्यपाल की नियुक्ति - कार्य व शक्तियां मंत्री परिषद एवं मुख्यमंत्री के कार्य शक्तियां	माह के अंतिम सप्ताह में जांच परीक्षा प्रस्तावित
दिसम्बर-17	3 4	के-डू-राज्य - विधायी प्रशासनिक एवं वितीय संबंध सर्वोच्च न्यायालय - क्षेत्राधिकार	माह के अंतिम सप्ताह में जांच परीक्षा प्रस्तावित
जनवरी	4	राज्यैतिक दल - दलीय पद्धति निर्वाचन आयोग	माह के अंतिम सप्ताह में जांच परीक्षा प्रस्तावित
फरवरी	5	भारतीय राजनीति के प्रमुख मुद्दे - जाति, धर्म, भाषा क्षेत्र	

प्रचार्य
वी.सी.एस.शासकीय पी.जी.महा.धमतरी

विभागाध्यक्ष
राजनीति विभाग
वी.सी.एस.शासकीय पी.जी.महा.धमतरी

विषय शिक्षक
(राज.विभाग)
वी.सी.एस.शासकीय पी.जी.महा.धमतरी

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TEACHING PLAN 2017-18

01. NAME OF TEACHER

02. DEPARTMENT

03. CLASS

04. PAPER/SUBJECT

राज्य प्रशासन वेबसाइट

राज्यीय विज्ञान

एम. ए. I ओगोवट

मा. प्रो. ए. ए. राजनीति

MONTH	UNIT	PAPER TO BE COVERED	REMARK
जुलाई अगस्त	1	प्रवेशी परीक्षा राजनीति, धर्म, प्रकृति क्षेत्र- आस्था, उपयोग	माह के अंतिम खपत के अंत परीक्षा प्रकाश
सितम्बर	1 2	राजनीति व्याख्या का महत्व राजनीति व्याख्या, अध्यापन के उपाय डेविड ई. वी. राज व्याख्या	
अक्टूबर	2 3	आंगूठ और पायल - राज व्याख्या संरचनात्मक - प्रकाशित उपाय परंपरागत - उपाय - ऐतिहासिक - दार्शनिक उपाय	माह के अंतिम खपत के अंत परीक्षा प्रकाश
नवम्बर	3 4	आधुनिक राजनीति अध्यापन की विशेषताएं व्यवहारगत - उत्तरव्यवहारगत राजनीति संरचना - समाजीकरण	अंत परीक्षा प्रकाश
दिसम्बर	4	समाजीकरण की विशेषताएं राजनीति संचार	

प्रचार्य

बी. सी. एस. शासकीय पी. जी. महा. धमतरी

विभागाध्यक्ष

बी. सी. एस. शासकीय पी. जी. महा. धमतरी

विषय शिक्षक

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TEACHING PLAN 2017-18

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02. DEPARTMENT

03. CLASS

04. PAPER/SUBJECT

डॉ. प्रभा वैरहकर

राजनीति विभाग

सम. ए. III सेमेस्टर

III शोध-प्रतिष्ठान

PAPER TO BE COVERED

REMARK

MONTH	UNIT	PAPER TO BE COVERED	REMARK
जुलाई	1	सामाजिक शोध की प्रवृत्ति महत्व एवं उपयोग	
अगस्त	1	शोध, शोध समालोचन की महत्ता शोध अभिवृद्धि	माह के अन्तिम समारोह के माध्यम परीक्षा-प्रश्न
सितम्बर	1 2	उपकल्पना विमर्श परीक्षा सामाजिक सर्वेक्षण	
अक्टूबर	3	प्राथमिक एवं द्वितीयक शोध सामाजिक- पद्धति, अवलोकन पद्धति	माह के अन्तिम परीक्षा के माध्यम परीक्षा-प्रश्न
नवम्बर	3 4	आधुनिक राजनीति अध्यापन की विशेषताएं व्यवहारवाद, उत्तर व्यवहारवाद राजनीति संरचना, समाजीकरण	
दिसम्बर	4	राजनीति समाजीकरण राजनीतिक संचार	

प्रचार्य

वी.सी.एस. शासकीय पी.जी. महाविद्यालय

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DHAMTARI

विभागाध्यक्ष

२१.१२.१७

वी.सी.एस. शासकीय पी.जी. महाविद्यालय

विषय शिक्षक

२१.१२.१७

वी.सी.एस. शासकीय पी.जी. महाविद्यालय

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TEACHING PLAN 2017-18

01. NAME OF TEACHER

02. DEPARTMENT

03. CLASS

04. PAPER/SUBJECT

श्री मती निशा तिवारी

सामाजिक विज्ञान

कक्षा - (चुतीय सेमेस्टर)

पपर लोकप्रशासन - (I)

MONTH	UNIT	PAPER TO BE COVERED	REMARK
अगस्त 2017	1	संघर्ष के उपागम : व्यवहारिकता की दुलनात्मक विचार्य परक विकास प्रशासन : प्रशासन व नवीन लोकप्र- शासन	
सितम्बर 2017	2	संघर्ष के सिद्धान्त : निर्माण का दोष आदेश की शक्ति, पक्षोपान, प्रत्यायोजन समन्वय	माह के अंतिम सप्ताह में जाँच परीक्षा प्रस्तावित
अक्टूबर 2017	3	केन्द्रीयकक्षा, विकेन्द्रीयकक्षा, मुख्यकार्यपालिका प्रकार एवं भूमिका, सुत्र एवं स्टॉफ अभिकक्षा, विभागीय संगठन, स्वतंत्र नियामकीय आयोग।	माह के अंतिम सप्ताह में जाँच परीक्षा प्रस्तावित
नवम्बर 2017	4	लोकनिगम : भर्ती, पदोन्नति, प्रशिक्षण सेवानिवृत्ति, संधिलोकसेवा आयोग व नौकरशाही	माह के अंतिम सप्ताह में जाँच परीक्षा प्रस्तावित
दिसम्बर 2017	4	संध लोकसेवा आयोग, सेवानिवृत्ति व नौकरशाही	

वी.सी.एस.शासकीय पी.जी.महा.धमतरी

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Dhamtari (C.G.)

विभागाध्यक्ष

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श्री मती निशा तिवारी
विषय शिक्षक
वी.सी.एस.शासकीय पी.जी.महा.धमतरी

B.C.S.GOV.T.P.G.COLLEGE, DHAMTARI

TEACHING PLAN 2018-19

01. NAME OF TEACHER Dr. Sanja Dwivedi
 02. DEPARTMENT PSYCHOLOGY
 03. CLASS B.A. Part I
 04. PAPER/SUBJECT Paper I Basic Psychological Processes

MONTH	UNIT	PAPER TO BE COVERED	REMARK
JULY	I	Introduction to psychology; Perspective of Behaviourism, psychoanalysis etc. PRACTICAL - Experiment Conduction / Testing	
AUGUST	I	Cognitive model and various methods of psychology: Interview, Survey etc. PRACTICAL - Experiment Conduction	I unit test is proposed
SEPTEMBER	II	Central Nervous System, Glands, Glands and Hormones PRACTICAL - Experiment Conduction	II unit test is proposed
OCTOBER	II III	Emotion and related concepts Sensation and its various types PRACTICAL - Experiment Conduction	III unit test is proposed
NOVEMBER	III	Perceptual process: Organization Attentional process and related concept PRACTICAL - Psychological testing	IV unit test is proposed
DECEMBER	IV	Memory: Process and types, Forgetting and theories PRACTICAL - Psychological testing	V unit test is proposed
JANUARY	IV V	Learning: Conditioning of & Ob., Verbal Personality: Measurement and theories PRACTICAL - Psychological testing	Pre-University Exams is proposed
FEBRUARY	V	Motivation: Social and Biological Intelligence: types and measurement PRACTICAL - Experiment Conduction	Annual Practical Exams is proposed

Sanja
Subject Teacher

Sanja
Head of Department

Sanja
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Dhamtari (C. O.)

B.C.S. GOVT. P.G. COLLEGE, DHAMTARI

TEACHING PLAN 2018 - 19

01. NAME OF TEACHER DR. SARLA DIWEDI
 02. DEPARTMENT PSYCHOLOGY
 03. CLASS B.A. PART II
 04. PAPER/SUBJECT PAPER-II PSYCHOLOGICAL ASSESSMENT

MONTH	UNIT	PAPER TO BE COVERED	REMARK
AUGUST	I	Psychological Assessment : Basic Concept Levels of Assessment Practical - Experiment conduction / Testing	I Unit test is Proposed
SEPTEMBER	I	Unidimensional and multidimensional Assessment of psychology Practical - Experiment conduction / Testing	II unit test is proposed
OCTOBER	II	Various psychological test and its types. uses of psychological tests. Practical - Experiment conduction / Testing	III unit test is proposed
NOVEMBER	III	Test construction : Steps of T.C. Concept of Reliability and its factors Practical - Test Administration	IV unit test is proposed
DECEMBER	III	Validity : Concept and factors Norms : Age, grade etc. Practical - Test Administration	V unit test is proposed
JANUARY	IV	Various cognitive and Non-cognitive test value, interest, Aptitude, intelligence etc Practical - Experiment conduction	Pre-University Examination is Proposed
FEBRUARY	V	Applied aspect of psychological testing Socio-cultural factors of psychological tests. Practical - Experiment conduction	Annual Practical Exam is proposed

Sam
Subject Teacher

Sam
Head of Department

Sam
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TEACHING PLAN 2018 -19

01. NAME OF TEACHER DR. SARLA DHIVEDI
 02. DEPARTMENT PSYCHOLOGY
 03. CLASS B.A. PART III
 04. PAPER/SUBJECT PAPER I PSYCHOLOGICAL STATISTICS

MONTH	UNIT	PAPER TO BE COVERED	REMARK
AUGUST	I	Basic concepts of Statistics, Application in Psychology. Frequency distribution.	I unit test is Proposed
		PRACTICAL - Experiment Conduction	
SEPTEMBER	I	Nature of Score, Graphical Representation of data. (Frequency polygon, Histogram etc.)	II unit test is Proposed
		PRACTICAL - Experiment Conduction / Testing	
OCTOBER	II	Measurement of Central tendency. Application of Mean, Median, Mode.	III unit test is Proposed
		PRACTICAL - Experiment Conduction / Testing	
NOVEMBER	III	Measurement of Variability (SD, QD, AD, Range)	IV unit test is Proposed
		PRACTICAL - Experiment Conduction / Psychological Test	
DECEMBER	III	Normal Probability curve, Concept of Skewness, Kurtosis	V unit test is Proposed
		PRACTICAL - Experiment Conduction / Testing	
JANUARY	IV	't' Test, Null Hypothesis, Level of Significance, Errors.	Pre-university Examination is Proposed
		PRACTICAL - Experiment Conduction	
FEBRUARY	V	Distribution free Statistics. Application of Computer in Psychological Statistics	Annual Practical Exams is Proposed
		PRACTICAL - Experiment Conduction / Testing	

Sau
Subject Teacher

Sau
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Dhamtari (C. O.)

TEACHING PLAN 2018-19

Name of Teacher: DR. RAKESH KUMAR SAHU
 Department: CHEMISTRY
 Class: B.Sc.-I year
 Paper/subject: PAPER – I/Inorganic Chemistry

Month	Unit	Paper to be covered	Remarks
July	Unit - I	Atomic structure: Bohr's theory, its limitation and atomic spectrum of hydrogen atom. General idea of de-Broglie matter waves, Heisenberg uncertainty principle, Schrodinger wave equation, significance of Ψ and Ψ^2 , radial and angular wave functions and probability distribution curves, quantum numbers, atomic orbital and shapes of s, p, d orbitals, Aufbau and Pauli exclusion principles, Hund's multiplicity rule, electronic configuration of the elements.	Unit Test Exar
August		Periodic properties: detailed discussion of the following periodic properties of the elements, with reference to s- and p-block. Trends in periodic table and applications in predicting and explaining the chemical behavior. Atomic and ionic radii, ionization enthalpy, electron gain enthalpy, electronegativity, Pauling's, Mulliken's, Allred Rochow's scales. Effective nuclear charge, shielding or screening effect, Slater rules, variation of effective nuclear charge in periodic table.	
September	Unit - II	Chemical bonding-I: Ionic bond: Ionic solids, ionic structure, radius ratio and coordination number, limitation of radius ratio rule, lattice defects, semiconductors, lattice energy Born-Haber cycle, solvation energy and solubility of ionic solids, polarizing power and polarisability of ions, Fajans rule, ionic character in covalent compounds: bond moment and dipole moment, percentage ionic character from dipole moment and electro-negativity difference, metallic bond: free electron, valence bond and band theories.	Unit Test Exar
October	Unit - III	Chemical bonding-II: Covalent bond: Lewis structure, valence bond theory and its limitations, concept of hybridization, energetic of hybridization, equivalent and non-equivalent hybrid orbitals, valence shell electron pair repulsion theory (VSEPR), shapes of the following simple molecules and ions containing lone pairs and bond pairs of electrons: H_2O , NH_3 , PCl_3 , SF_6 , H_3O^+ , SF_4 , ClF_3 and ICl_2^- molecular orbital theory, bond order and bond strength. molecular orbital diagrams of diatomic and simple polyatomic molecules N_2 , O_2 , F_2 , CO , NO .	Unit Test Exar
November	Unit - IV	s-block elements: general concepts of group relationships and gradation properties, comparative study, salient features of hybrids, solvation and complexation tendencies including their function in biosystems and introduction to alkyl and aryls, derivatives of alkali and alkaline earth metals.	Unit Test Exar
December		p-block elements: general concepts of group relationships and gradation properties, halides, hydrides, oxides and oxyacids of boron, aluminium, nitrogen and phosphorus. Boranes, borazines, fullerenes, graphene and silicates, interhalogens and pseudohalogens.	Unit Test Exar
January	Unit - V	Chemistry of noble gases: Chemical properties of the noble gases, chemistry of xenon, structure, bonding in xenon compounds. Theoretical principles in qualitative analysis (H_2S scheme): Basic principle involved in the analysis of cations and anions and solubility products, common ion effect,	Mod Test
February		Principle involved in separation of cations into groups and choice of group reagents. Interfering anions (fluoride, borate, oxalate and phosphate) and need to remove them after group II.	

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A Mahatma

TEACHING PLAN 2018-19

Name of Teacher: DR. RAKESH KUMAR SAHU
 Department: CHEMISTRY
 Class: B.Sc.-III year
 Paper/subject: PAPER – III/Physical Chemistry

Month	Unit	Paper to be covered	Remark
July	Unit -I	Quantum Mechanics – I: Black body radiation, Plank's radiation law, photoelectric effect, Compton effect. De-Broglie's idea of matter waves, experimental verification Heisenberg's uncertainty principle.	Unit Test Exam
August		Sinoidal wave equation, operators: Hamiltonian operator, angular momentum operator, laplacian operators. Postulate of quantum mechanics Eigen value, Eigen function. Schrodinger time independent wave equation. Physical significance of ψ and ψ^2 . Applications of Schrodinger wave equation: Particle in one dimensional box Hydrogenation (separation into three equations) radial wave function and angular wave function.	
September	Unit-II	Quantum Mechanics – II: Quantum mechanical approach of molecular orbital theory, basic idea criteria for forming MO and AO, LCAO approximation, formation of H_2^+ ion, calculation of energy levels from wave function bonding and anti-bonding wave functions concept of σ , σ^* , π and π^* orbitals and their characteristics. Hybrid orbital: sp , sp^2 , sp^3 . calculation of coefficient. AO's used in these hybrid orbitals.	Unit Test Exam
October	Unit II&-III	Introduction to valence bond model of H_2 . Comparison of MO And VB model, Huckel theory. Application of Huckel theory to ethane, Propene etc. Spectroscopy-I: Introduction, characterization of electro-magnetic radiation, regions of the spectrum, representation of spectra width and intensity of spectral transition rotational spectra of calculated diatomic molecules, energy level of rigid rotator. Selection rule, determination of bond length qualitative description of non-rigid rotator isotopic effect.	Unit Test Exam
November	Unit-III	Vibrational spectra: Fundamental vibrational and their symmetry, vibrating diatomic molecules, energy levels of simple harmonic oscillator. Selection rule Pure vibrational spectrum, determination of force constant, diatomic vibrating rotator, anharmonic oscillator. Raman Spectra: Concept of polarizability, quantum theory of Raman spectra stokes and anti stokes lines pure rotational and vibrational Raman Spectra. Application of Raman Spectra.	Unit Test Exam
December	Unit-IV	Spectroscopy-II: Electronic spectra- Electronic spectrum of diatomic molecule. Franck-Condon principle, types of electronic transitions. Applications of electronic spectra. Photo - chemistry: Interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry. Grotthuss - Drapper law, Stark - Einstein law, Jablonski diagram depicting various process occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), quantum yield photosensitized reactions energy transfer processes (simple examples).	Unit Test Exam
January	Unit -V	Thermodynamics: Energy referred to absolute zero, third law of thermodynamics, Test of third law of thermodynamics, Nernst heat theorem application and limitation of Nernst heat theorem. Physical properties and molecular structure Polarization of molecules. Clausius-Mosotti equation. Orientation of dipoles in an electric field, Dipole moment, induced dipole moment, measurement of dipole moment. Temperature methods and refractivity methods.	Model Test
February		Dipole moment and molecular structure Magnetic properties: paramagnetism, diamagnetism, ferromagnetism Determination of magnetic susceptibility, elucidation of molecular structure	

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TEACHING PLAN 2018-19

Name of Teacher: DR. RAKESH KUMAR SAHU
 Department: CHEMISTRY
 Class: M.Sc.-I SEM.
 Paper/subject: PAPER – IV/Theory and applications of spectroscopy-I

Month	Unit	Paper to be covered	Remark
July			
August	Unit -II	Classification of molecules in term of their internal rotation mechanism, determination of rotation energy of diatomic and polyatomic molecules, intensities of rotational spectral lines, effect of isotopic substitution on diatomic and polyatomic molecules, intensities of rotational spectral lines and parameters of rotational energy of linear and the transition frequencies,	Unit Test Exam
September	Unit – II&III	non rigid rotators, spectral lines and parameters of rotational energy of linear and symmetric top polyatomic molecules. Application in determination of bond length. Principle, instrumentation and application of Auger spectroscopy and scanning electron microscopy for chemical characterization, electron diffraction of gases and vapours.	Unit Test Exam
October	Unit -III	The wien equation and correlated method, application of electron diffraction. Theory instrumentation and application of turbidimetry, nephelometry and fluorometry. Fluorescence and phosphorescence and factors affecting them.	Unit Test Exam
November	Unit -IV	Classical and quantum theories of Raman effect, pure rotational, vibrational and vibrational-rotational Raman spectra, selection rules, mutual exclusion principle, resonance Raman spectroscopy, coherent anti Stokes Raman spectroscopy (CARS), instrumentation, application of Raman effect in molecular structures,	Unit Test Exam
December	Unit -IV	Raman activity of molecular vibration, structure of CO ₂ , H ₂ O, N ₂ O, SO ₂ , NO ₃ ⁻ , ClF ₃ .	Model Test


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TEACHING PLAN 2018-19

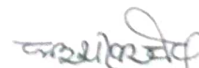
Name of Teacher: DR. RAKESH KUMAR SAHU
 Department: CHEMISTRY
 Class: M.Sc.-II SEM.
 Paper/subject: PAPER – II/Reaction mechanisms

Month	Unit	Paper to be covered	Remark
JANUARY	Unit -I	Aliphatic nucleophilic substitution: The S_N1 , S_N2 mechanisms, the neighboring group mechanism, neighboring group participation by π and σ bonds, anchimeric assistance. Reactivity effects of substrate structure, attacking nucleophile, leaving group and reaction medium,	
FABUARY	Unit -I&II	Phase transfer catalysis, ambident nucleophile and regioselectivity. Aromatic nucleophilic substitution- the S_NAr , S_N1 , and benzyne mechanisms. Reactivity effect of substrate structure, leaving group and attacking nucleophile. The Von- Richer, Sommet-Hauser, and smile rearrangements. Aliphatic electrophilic substitution- mechanism of S_E1 , S_E2 , electrophilic substitution accompanied by double bond shifts.	Unit Test Exam
MARCH	Unit – II&III	Effect of substrate, leaving group and the solvent polarity on the reactivity. Aromatic electrophilic substitution- An arenium ion mechanism, orientation and reactivity. The ortho/para ratio, ipso attack, orientation in other ring system. Reactivity effects of substrates and electrophiles. Vilsmeier reaction and Gattermann-Koch reaction.	Unit Test Exam
APRIL	Unit –III	Addition to carbon-carbon multiple bonds- mechanistic and stereochemical aspects of addition reaction involving electrophiles, nucleophiles and free radicals, regio- and chemoselectivity. Addition to cyclopropane ring. Hydrogenation of double and triple bonds, hydrogenation of aromatic rings hydroboration, Michael reaction. Sharpless asymmetric epoxidation.	Unit Test Exam
MAY	Unit -IV	Addition to carbon-hetero multiple bonds: Mechanism of metal hydride reduction of saturated and unsaturated carbonyl compounds, acids, esters and nitriles. Addition of Grignard reagents, organo-zinc and organo-lithium to carbonyls and unsaturated carbonyl compounds, Wittig reaction.	Unit Test Exam
JUNE	Unit -IV	Mechanism of condensation reactions involving enolates-aldol, Knoevenagel and Stobbe reactions. Hydrolysis of esters and amides, ammonolysis of esters.	Model Test Exam


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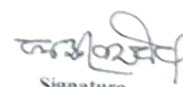
Name of Teacher: DR. RAKESH KUMAR SAHU
 Department: CHEMISTRY
 Class: M.Sc.-III SEM.
 Paper/subject: PAPER – II/Chemistry of Biomolecules

Month	Unit	Paper to be covered	Remark
July			
August	Unit -I	Bioenergetics: standard free energy change in biochemical reactions, exergonic, endergonic hydrolysis of ATP, synthesis of ATP from ADP. Electron transfer in biology: structure and function of metalloprotein in electron transport processes- cytochromes and ion-sulphur proteins, synthetic models. Transport and storage of dioxygen: heme proteins and oxygen uptake, structure and function of haemoglobin, myoglobin, haemocyanins and haemerythrin, model synthetic complexes of iron, cobalt and copper.	Unit Test Exam
September	Unit -II	Metalloenzymes: zinc enzymes- carboxypeptidase and carbonic anhydrase. Iron enzymes- catalase, peroxidase and cytochrome p-450. Copper enzymes- superoxide dismutase. Molybdenum oxatransferase enzymes- xanthine oxidase. Enzyme models: host-guest chemistry, chiral recognition and catalysis, molecular recognition, molecular asymmetry and prochirality. Biomimetic chemistry, cyclodextrin based enzyme models, calixarenes, ionophores, synthetic enzymes or synzymes.	Unit Test Exam
October	Unit -III	Enzymes: nomenclature and classification of enzyme. Induced fit hypothesis, concept and identification of active site by the use of inhibitors. Co-enzyme chemistry: structure and biological functions of coenzyme A, thiamine pyrophosphate, pyridoxal phosphate, NAD ⁺ , NADP ⁺ , FMN, FAD, lipoic acid, vitamin B ₁₂ . Biotechnological applications of enzymes: techniques and methods of immobilization of enzymes, effect of immobilization on enzyme activity, application of immobilization enzymes in medicine and industry. Enzymes and recombinant DNA technology.	Unit Test Exam
November	Unit -IV	Biopolymer interactions: forces involved in biopolymer interaction. Electrostatic charges and molecular expansion, hydrophobic forces, dispersion force interactions. Multiple equilibria and various types of binding processes in biological systems. Hydrogen ion titration curves.	Unit Test Exam
December		Thermodynamics of biopolymer solutions: thermodynamics of biopolymer solution, osmotic pressure, membrane equilibrium, muscular contraction and energy generation in mechanochemical system. Cell membrane and transport of ions: structure and function of cell membrane, ion transport through cell membrane, irreversible thermodynamic treatment of membrane transport and nerve conduction.	Model Test


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TEACHING PLAN 2018-19

Name of Teacher: DR. RAKESH KUMAR SAHU
 Department: CHEMISTRY
 Class: M.Sc.-IV SEM.
 Paper/subject: PAPER – II/Natural Product and Medicinal Chemistry

Month	Unit	Paper to be covered	Remark
JANUARY	Unit – I	Terpenoids and Carotenoids: Classification, nomenclature, occurrence, isolation, general methods of structure determination of citral, geraniol, α -terpeneol, menthol, farnesol, zingiberdne, santonin, phytol, abietic acid and β -carotene.	
FABUARY	Unit – I&II	Alkaloids: definition, nomenclature and physiological action, occurrence, isolation, general methods of structure elucidation, degradation, classification based on nitrogen heterocyclic ring, role of alkaloids in plant. Synthesis and biosynthesis of the following: ephedrine, (+)-coline, nicotine, atropine, quinine and morphine. Steroids: isolation, structure determination and synthesis of cholesterol, bile acids, androsterone, testosterone, esterone, progesterone, aldosterone and biosynthesis of cholesterol.	Unit Test Exam
MARCH	Unit – II	Plant pigments: occurrence, nomenclature and general method of structure determination, isolation and synthesis of apigenin, luteolin, quercetin, myrcetin, quercetin-3-glucoside, vitexin, diadzin, butein aureusin, cyaniding-7-arebinoside, cyaniding, hirsutidin. Pyrethroids and rotenones: synthesis and reaction of pyrethroids and rotenones.	Unit Test Exam
APRIL	Unit – III	Drug design: development of new drugs procedures followed in drug design, concepts of lead compound and lead modification, concepts of prodrugs and soft drugs, structure activity relationship (SAR), factors affecting bioactivity, resonance, inductive effect. Theories of drug activity: occupancy theory, rate theory, induced fit theory. Quantitative structure activity relationship (QSAR). Concepts of drug receptors, lipophilicity, pharmacophore, pharmacological activity and typical range of parameters related to drug likeness. General introduction of pharmacokinetics and pharmacodynamics.	Unit Test Exam
MAY	Unit -IV	Anteoplastic agents: introduction, alkylating agents. Antimetabolites, carcinolytic antibiotics, mitotic inhibitors. Antibiotics: constitution and synthesis of penicillin, chloramphenicol, tetracycline and streptomycin.	Unit Test Exam
JUNE		Antimalarials: synthesis and properties of the following antimalarial: 8-amino quinoline derivatives- pamaquine, primapune, pentaquine, isopentaquine, 4-amino quinolone derivatives-santoquine, camaquine, acridine derivatives-mepractine, azacrin, pyrimidine and biguanid derivatives-paludrine pyremethamine.	

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