

PROGRAMME: LL.B. (3 YEARS)
CURRICULUM

SEMESTER 1										
Sl. No.	COURSE TYPE	COURSE CODE	COURSE TITLE	L	T	P	C	Marks		Page No.
								CAE	ESE	
1	Core	SHS1111	Communicative English- I	3	1	0	4	40	60	15
2	Core	SAL1103	Law of Contracts and Specific Relief	4	1	0	4	40	60	17
3	Core	SAL1104	Law of Torts Including MV Accident and Consumer Protection Laws	4	1	0	4	40	60	18
4	Core	SAL1303	Constitutional Law- I	4	1	0	4	40	60	19
5	Core	SAL1304	Family Law- I	4	1	0	4	40	60	20
6	Elective	_____	Optional- I	4	1	0	4	40	60	
7	AECC	STA1103	Tamil	3	1	0	3	40	60	21
		SFR1103	French							23
Total Credits for Semester 1 - 27										
Total Marks for Semester 1 - 700										

SEMESTER 2										
Sl. No.	COURSE TYPE	COURSE CODE	COURSE TITLE	L	T	P	C	Marks		Page No.
								CAE	ESE	
1	Core	SAL1203	Special Contracts	4	1	0	4	40	60	25
2	Core	SAL1204	Jurisprudence (Legal method, Indian legal system and basic theory of law)	4	1	0	4	40	60	27
3	Core	SAL1401	Constitutional Law- II	4	1	0	4	40	60	28
4	Core	SAL1402	Family Law- II	4	1	0	4	40	60	30
5	Elective	_____	Optional- II	4	1	0	4	40	60	
6	AECC	SAL1205	Environmental Studies	3	1	0	3	40	60	31
7	SEC	SBA1404	Personality Development	3	1	0	3	40	60	33
Total Credits for Semester 2 - 26										
Total Marks for Semester 2 - 700										

L- LECTURE HOURS, T- TUTORIAL HOURS, P- PRACTICAL HOURS, C- CREDIT

CAE - CONTINUOUS ASSESSMENT EXAMINATION

ESE - END SEMESTER EXAMINATION

SEMESTER 3										
Sl. No.	COURSE TYPE	COURSE CODE	COURSE TITLE	L	T	P	C	Marks		Page No.
								CAE	ESE	
1	Core	SAL1305	Law of Crimes- I (IPC)	4	1	0	4	40	60	35
2	Core	SAL1501	Labour Law- I	4	1	0	4	40	60	36
3	Core	SAL1701	Public International Law	4	1	0	4	40	60	38
4	Core	SAL1702	Property Law	4	1	0	4	40	60	40
5	Elective	_____	Optional- III	4	1	0	4	40	60	
6	SEC	SAL1503	Legal Language and Legal Writing	3	1	0	3	40	60	41
7	GE	_____	Generic Elective- I	3	1	0	3	40	60	
Total Credits for Semester 3 - 26										
Total Marks for Semester 3 - 700										

SEMESTER 4										
Sl. No.	COURSE TYPE	COURSE CODE	COURSE TITLE	L	T	P	C	Marks		Page No.
								CAE	ESE	
1	Core	SAL1403	Environmental Law including Laws for the Protection of Wild Life and other Living Creatures including Animal Welfare	4	1	0	4	40	60	43
2	Core	SAL1601	Labour Law- II	4	1	0	4	40	60	44
3	Core	SAL1801	Law of Evidence	4	1	0	4	40	60	45
4	Core	SAL1802	Administrative Law	4	1	0	4	40	60	47
5	Elective	_____	Optional- IV	4	1	0	4	40	60	
6	AECC	SBA1403	Disaster Management	3	1	0	3	40	60	48
7	GE	_____	Generic Elective- II	3	1	0	3	40	60	
Total Credits for Semester 4 - 26										
Total Marks for Semester 4 - 700										

L- LECTURE HOURS, T- TUTORIAL HOURS, P- PRACTICAL HOURS, C- CREDIT

CAE - CONTINUOUS ASSESSMENT EXAMINATION

ESE - END SEMESTER EXAMINATION

SEMESTER 5										
Sl. No.	COURSE TYPE	COURSE CODE	COURSE TITLE	L	T	P	C	Marks		Page No.
								CAE	ESE	
1	Core	SAL1901	Civil Procedure Code and Limitation Act	4	1	0	4	40	60	51
2	Core	SAL1902	Law of Crimes – II(Criminal Procedure Code, Juvenile Justice Act & Probation of Offenders Act	4	1	0	4	40	60	52
3	Core	SAL1903	Principles of Taxation Law	4	1	0	4	40	60	54
4	Core	SAL1904	Company Law	4	1	0	4	40	60	56
5	Core	SAL1905	Drafting, Pleading and Conveyance (Clinical Course – I)	4	3	0	5	40	60	57
6	Elective	_____	Optional- V	4	1	0	4	40	60	
Total Credits for Semester 5 - 25										
Total Marks for Semester 5 – 600										

SEMESTER 6										
Sl. No.	COURSE TYPE	COURSE CODE	COURSE TITLE	L	T	P	C	Marks		Page No.
								CAE	ESE	
1	Core	SAL1001	Professional Ethics and Professional Accounting(Clinical Course- II)	4	1	0	4	40	60	59
2	Core	SAL1002	Arbitration, Conciliation & Alternative Dispute Resolution System (Clinical Course – III)	3	3	3	6	40	60	61
3	Core	SAL1003	Moot Court Exercise & Internship (Clinical Course – IV)	3	3	3	6	40	60	62
4	Elective	_____	Optional- VI	4	1	0	4	40	60	
Total Credits for Semester 6 - 20										
Total Marks for Semester 6 - 400										

L- LECTURE HOURS, T- TUTORIAL HOURS, P- PRACTICAL HOURS, C- CREDIT

CAE - CONTINUOUS ASSESSMENT EXAMINATION

ESE - END SEMESTER EXAMINATION

Semester	Theory courses (including elective courses)			Practical Courses (including PT and project)		
	Total No.	Total Credits	Total Marks	Total No.	Total Credits	Total Marks
1	7	27	700			
2	7	26	700			
3	7	26	700			
4	7	26	700			
5	5	19	500	1	5	100
6	1	4	100	3	16	300
Overall Total	34	129	3400	4	21	400

Overall total credits for LL.B. (3 Years) Programme	150
Overall total marks for LL.B. (3 Years) Programme	3800

LIST OF OPTIONAL PAPERS

Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C	Marks		Page No.
							CAE	ESE	
1	SAL1551	Information Technology Law	4	1	0	4	40	60	64
2	SAL1552	Law on Agricultural Labour	4	1	0	4	40	60	66
3	SAL1553	International Human Rights	4	1	0	4	40	60	67
4	SAL1651	Animal Protection Laws	4	1	0	4	40	60	68
5	SAL1652	Interpretation of Statutes	4	1	0	4	40	60	69
6	SAL1653	International Monetary Fund	4	1	0	4	40	60	70
7	SAL1751	Law on Education	4	1	0	4	40	60	71
8	SAL1752	Women and Criminal Law	4	1	0	4	40	60	72
9	SAL1753	Intellectual Property Law	4	1	0	4	40	60	73
10	SAL1851	Land Laws including Tenure and Tenancy System	4	1	0	4	40	60	75
11	SAL1852	Financial and Systematic Fraud	4	1	0	4	40	60	76
12	SAL1853	Competition Law	4	1	0	4	40	60	77
13	SAL1951	Investment Law	4	1	0	4	40	60	78
14	SAL1952	Health Law	4	1	0	4	40	60	79
15	SAL1953	Farmers and breeders rights	4	1	0	4	40	60	80
16	SAL1051	Media and Law	4	1	0	4	40	60	81
17	SAL1052	Transportation Law	4	1	0	4	40	60	82
18	SAL1053	Penology and Victimology	4	1	0	4	40	60	83

L- LECTURE HOURS, T- TUTORIAL HOURS, P- PRACTICAL HOURS, C- CREDIT

CAE - CONTINUOUS ASSESSMENT EXAMINATION

ESE - END SEMESTER EXAMINATION

OPEN ELECTIVE COURSES

Sl. No.	Course Code	Course Title	L	T	P	C	Marks		Page No.
							CAE	ESE	
1	SALA4001	Intellectual Property Law	3	0	0	3	50	50	85
2	SAEA4001	Fundamentals of Aerospace Technology	3	0	0	3	50	50	86
3	SBAA4001	Fundamentals of Management	3	0	0	3	50	50	87
4	SBAA4002	Principles of Management and Professional Ethics	3	0	0	3	50	50	88
5	SBTA4001	Biology for Engineers	3	0	0	3	50	50	90
6	SBMA4001	Neurology	3	0	0	3	50	50	91
7	SBMA4002	Modelling of Physiological Systems	3	0	0	3	50	50	92
8	SBMA4003	Drug Delivery System	3	0	0	3	50	50	93
9	SBMA4004	Fundamentals of Mechatronics	3	0	0	3	50	50	94
10	SBMA4005	Virtuality and Augmented Reality	3	0	0	3	50	50	95
11	SBMA4006	Medical Optics and Laser Applications	3	0	0	3	50	50	96
12	SBMA4007	Forensic Science	3	0	0	3	50	50	97
13	SBMA4008	Artificial Intelligence and Expert Systems	3	0	0	3	50	50	98
14	SBMA4009	Human Factors in Engineering and Design	3	0	0	3	50	50	99
15	SCHA4001	Corrosion Engineering	3	0	0	3	50	50	100
16	SCHA4002	Energy Engineering	3	0	0	3	50	50	101
17	SCHA4003	Environmental Impact Assessment	3	0	0	3	50	50	102
18	SCHA4004	Environmental Pollution and Control	3	0	0	3	50	50	103
19	SCIA4001	Disaster Management	3	0	0	3	50	50	104
20	SCSA4001	R Programming	3	0	0	3	50	50	106
21	SCSA4002	5 G Networks	3	0	0	3	50	50	107
22	SECA4001	Software Tools for Engineering Applications	3	0	0	3	50	50	108
23	SMEA4001	Resource Management Techniques	3	0	0	3	50	50	110
24	SMEA4002	Wind and Solar Energy	3	0	0	3	50	50	111

L - LECTURE HOURS, T – TUTORIAL HOURS, P – PRACTICAL HOURS, C – CREDITS

CAE – CONTINUOUS ASSESSMENT EXAMINATION,

ESE – END SEMESTER EXAMINATION

SEMESTER – I

SHS1111	COMMUNICATIVE ENGLISH- I	L	T	P	Credit	Total Marks
		3	1	0	4	100

COURSE OBJECTIVE

- The paper provides opportunities for students to read and respond to representations of current issues through texts that present themes and topics that are familiar, insightful and informative.
- In this paper students will have an opportunity to improve their vocabulary related to immediate environment, practice speaking skills by discussing about issues based on reading texts, read texts that include everyday problems that provide opportunities to develop problem solving skills in cooperative learning situations, develop writing skills through writing essay, substance of a poem, letters and composition of dialogues.
- To Provide an opportunity for the students to participate in debate on the topics related to Environmental issues and Discrimination in Society.

UNIT 1 – DRESS IN COMMUNICATION**12 Hrs.**

Speaking - Rhetorical analysis and Group Discussion. Reading for details and Global Comprehension - Dress in communication, I have a Dream Speech by Martin Luther King and The Justice Peace by Hilaire Belloc Critical Thinking: Asking Questions, Analyzing Assumptions and Biases. Vocabulary: Expressions and markers. Collocations – Identifying collocations by reading prose passages mentioned in the unit one. Fill gap and matching type. Language Focus Determiners, Parts of Speech Writing: Paragraph writing based on hints given ('My dream for my family/ country', 'importance of clothing for communication, 'social inequality in society', 'Judge the Book by its Cover- Can we judge people by their appearance?')

UNIT 2 – AN INCONVENIENT TRUTH**15 Hrs.**

Speaking: Debate on the topics related to Environmental issues and Discrimination in Society. Reading for details and Global Comprehension on An Inconvenient Truth, A Different History by Kamala Das and Sujata Bhatt. Critical Thinking: Identifying Facts and Opinions, Distinguish a main idea in text from a subordinate idea. Examine views on a controversial issue and consider one's own biases and personal interest.. ' Vocabulary: Collocations, Useful words to express point of view. Language focus- Tenses, Conjunctions and discourse markers Writing- Responding to Slogans, Campaign Leaflet and Writing Film Review, Letter writing

UNIT 3 – A Speech By N R Narayana Murthy**15 Hrs.**

Speaking: Giving Impromptu speeches- Welcome address and Vote of Thanks. Reading for details and Global Comprehension- A Speech by NR Narayana Murthy and Digging by Seamus Heaney Critical Thinking: Asking ' wh ' questions Questions, Making informed decisions based on evidence, Examining Evidence by citing evidence from the textbook or lecture to support a position. Vocabulary - Word association, onomatopoeic words. Language focus: Sentence Function and Sentence Kinds Writing: Writing email, Writing Diary Entry

UNIT 4 – AFTER TWENTY YEARS**14 Hrs.**

Listening: For details and Overall Idea, Speaking: Informal Speech, Reading for details and Global Comprehension- After Twenty Years by Jamila and After Twenty Years by O Henry Writing: Problem solving paragraph writing. Letter to the editor with solutions to current problems related to areas covered in the course Critical Thinking: Problem Solving selecting effective solutions for overcoming obstacles or constraints by explaining why it is the most effective of the possible solutions. Vocabulary: Phrasal Verbs Language Focus Types of sentences -simple, compound and complex. Language Focus: Subject verb Agreement

UNIT 5 – I LOVE YOU MOM**14 Hrs.**

Listening for details Speaking- Greeting, thanking, apologising, offering condolences by doing Role plays Reading for details and Global Comprehension- I Love you Mom by Joanna Fuchs and Prose passage on ' I Love You Mom'. Writing: Writing restaurant review, argumentative writing. Vocabulary: Phrasal Verbs, Synonyms and Antonyms Critical Thinking: Argumentation provides a well-articulated and detailed argument

PROJECT: PORTFOLIO SUBMISSION:

UNIT 1 – Critical Reading of I have a Dream Speech by Martin Luther King to identify lexical chunks. Paper presentations on topics suggested for paragraph writing in the unit 1

UNIT 2 – Critical Thinking: Identifying Facts and Opinions in An Inconvenient Truth, Distinguish a main idea in text from a subordinate idea. Examine views on a controversial issue and consider one's own biases and personal interests

UNIT 3 – Using Critical Reading template to analyse A Speech by NR Narayana Murthy Making informed decisions based on evidence, Examining Evidence by citing evidence from the textbook or lecture to support a position

UNIT 4 – Collecting Letter to the editor, to identify assumptions and premises, chain of argument

UNIT 5 – Book review and film review by using template of critical reading

Max. 70 Hours

COURSE OUTCOMES

On the completion of the course the student will be able to

CO1: Demonstrate knowledge of linking words related to both spoken and written discourse, identify collocations.

CO2: Apply the rules for writing by using cohesive devices based on prompts given thereby to write letters and reviews

CO3: Demonstrate critical thinking skills by framing questions that generate information related to elements of reasoning

CO4: Read topics suggested for to answer inferential and factual information

CO5: Evaluate written pieces to self correct in the topic areas of determiners, verbs, concord, identifying sentence functions and sentence types

CO6: This Course will equip the students with the required Professional Skills.

TEXT / REFERENCE BOOKS

1. Reflections - An Anthology of Prose, Poetry and Fiction (2015) Foundation Books, Chennai.
2. Sen S, Mahendra et al. (2015) Communication and Language Skills. Foundation books. Chennai

Reference Links for teachers on Critical Thinking

<https://designteachengage.wisc.edu/course-activities-learner-interaction/sdc-activity-types-active-learning/>

<https://www.uen.org/rubric/previewRubric.html?id=1219>

<https://www.diigo.com/profile/Teachonlineuw?query=%22Critical+Thinking%22+rubric>

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks:100

Exam Duration: 3 Hrs.

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions to be answered out of 4 questions and each carries 15 marks

30 Marks

SAL1103	LAW OF CONTRACTS And SPECIFIC RELIEF	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles of law.
- This course seeks to regulate the behavior between persons making contracts.
- To apply the basic principles in contractual relations, students must have a clear understanding about the basic concepts in Law of contracts.

UNIT 1 – INTRODUCTION**15 Hrs.**

Basic nature of contract – Formation of contract – Offer, acceptance, revocation, lapse of offers and acceptance – Intention to create legal relationship –Terms of contract- Consideration (Quid Pro Quo)- Unlawful Considerations and its effects.

UNIT 2 – CAPACITY TO CONTRACT AND CONSENT**18 Hrs.**

Legal disability to enter into contract -Minors, persons of unsound mind- Persons disqualified by Law- Fraud by a Minor - Ratification and Estoppel - Other Illustrations of Incapacity

Free Consent- Factors Vitiating Free Consent- Coercion - Undue Influence – Misrepresentation – Fraud – Mistake.

UNIT 3 – LEGALITY OF OBJECTS AND QUASI –CONTRACTS**18 Hrs.**

Legality of Objects - Lawful and Unlawful Considerations-Objects - Void, Voidable-Illegal and Unlawful Agreements-Their Effects

Quasi Contracts-E- Contracts – Government Contracts– Kinds of Govt. Contracts and Performance of Such Contracts- Settlement of Disputes and Remedies.

UNIT 4 – DISCHARGE OF CONTRACT**17 Hrs.**

Performance of contract- Privity of contract-conditions for valid tender of performance – Discharge by agreement-novation, alteration – Discharge by breach - Waiver – Accord & satisfaction – Material alteration.

UNIT 5 – REMEDIES AND SPECIFIC RELIEF**17 Hrs.**

Remedies under Indian Contract Act: Damages - Remoteness of Damages-Ascertainment of Damages- Injunction

Specific Relief Act, 1963: specific performance of contracts -Persons against whom specific enforcement can be ordered- Rescission and cancellation-Injunction-Discretion and powers of court.

Max. 85 Hours**COURSE OUTCOMES**

On completion of the course the student will be able to

CO1: Emphasized to understand the Legal dimensions of the law relating to the formation of contracts.

CO2: An insight into the legal provisions, which buttress the operative performance of contracts.

CO3: Comprehend & appreciate the significance of the various modes in which contracts can be discharged.

CO4: Familiarize with the redressal mechanisms available to the aggrieved parties.

CO5: Students will be conversant with the principles underlying the grant of specific reliefs and the different remedies provided under the Specific Relief Act

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

- G.C.V. Subba Rao, Law of Contracts – I & II, S. Gogia & Co., Hyderabad, 11th ed., 2014.
- Raman, A.M.L.J Law of Contract and Specific relief. 2 vols. Nagpur:Lexis Nexis Wadhwa, 2nd ed., 2009.
- Avtar Singh, Law of Contract and Specific Relief, Eastern Book Company, Lucknow, 10th ed., 2008.
- Jack Beatson et.al, Ansons Law of Contract, Oxford University Press, 29th ed., 2010.
- RK Bangia, Law of Contract – I with Specific Relief Act, Jain Book Agency, 6th ed., 2014.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1104	LAW OF TORTS INCLUDING MV ACCIDENT AND CONSUMER PROTECTION LAWS	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles of law.
- To make the students to understand the various principles of law of torts by the way of analyzing the historical evolution of the law of torts.
- The course also helps the students to understand the conditions of liability with established cases along with the Consumer Protection law and Motor Vehicle Acts.

UNIT 1 – INTRODUCTION**15 Hrs.**

Nature - Definition and Elements of Tort - Development of Law of Torts - Wrongful Act and Legal Damage - Damnum Sine Injuria and Injuria Sine Damnum - Tort Distinguished from Crime and Breach of Contract - General Principles of Liability in Torts - Fault - Wrongful Intent- Malice- Liability Without Fault- Statutory Liability- Parties to Proceedings.

UNIT 2 – GENERAL DEFENCES**18 Hrs.**

General Defenses to an Action in Torts - Volenti Non Fit Injuria (Consent)- Plaintiff The Wrongdoer - Inevitable Accidents - Act of God - Private Defence – Mistake – Necessity - Statutory Authority.

UNIT 3 – VICARIOUS LIABILITY**18 Hrs.**

Vicarious Liability - Principal and Agent - Master and Servant - Partners - Liability of the State - Doctrine of Sovereign Immunity - Joint Tort-feasors- Rule of Strict Liability - Exception – Rule of Absolute Liability.

UNIT 4 – SPECIFIC TORTS**17 Hrs.**

Nuisance - Negligence - Essentials of Tort of Negligence - Proof of Negligence: Res Ipsa Loquitur - Nervous Shock - Contributory Negligence- Remoteness of Damage- Trespass – Assault- Battery- Libel and Slander - Defamation.

UNIT 5 – CONSUMER PROTECTION LAW & MV ACT**17 Hrs.**

Consumer Protection Act, 1986: Meaning of Consumer & Deficiency in Service- Caveat Emptor and Caveat Venditor- Deceit and False Advertisement- Consumer Protection Redressal Agencies.

Motor Vehicles Act, 1988: Compensation Provisions of The Motor Vehicles Act, 1988- Insurer's Liability for Third Party Risk- Extent of Liability of Insurer- Claims – Tribunal.

Max. 85 Hours**COURSE OUTCOME**

On completion of the course the student will be able to

CO1: This Course gives a brief introduction of common law paper – law of torts which provides historical perspective to students.

CO2: The concepts of negligence, trespass and defamation gives civil way of approach to the students.

CO3: The concept of strict liability and Absolute liability gives wider perspective about social litigation.

CO4: Provides a deeper knowledge about consumer protection laws to the students which helps them in practical aspects.

CO5: Making the students to understand tribunal and quasi judicial bodies other than regular procedures.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. R.K. Bangia, Law of Torts including Compensation under the Motor Vehicles Act and Consumer Protection Laws, Allahabad Law Agency, 2013.
2. B.M. Gandhi, Law of Torts with Law of Statutory Compensation and Consumer Protection, Eastern Book Company, 4th edn, 2011.
3. Ratanlal&Dhirajlal, The Law of Torts, Lexis Nexis, Nagpur, 26th edn, 2013.
4. Ramaswamylyer's, The Law of Torts, Lexis Nexis, Nagpur, 10th edn, 2007.
5. W.V.H. Rogers, Winfield and Jolowicz, Tort, Sweet & Maxwell, 18th edn, 2010.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1303	CONSTITUTIONAL LAW – I	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles in Constitutional law.
- To know the significance of the Constitution of India.
- To impart knowledge about the Fundamental Rights and Directive Principles Enshrined in the Constitution of India.

UNIT 1 – INTRODUCTION**15Hrs.**

Meaning and Significance - Evolution of Modern Constitution - Classification of Constitution - Indian Constitution - Historical Perspectives - Government of India Act, 1919 - Government of India Act, 1935 - Drafting of Indian Constitution - Role of Drafting Committee of the Constituent Assembly.

UNIT 2 – FEATURES OF INDIAN CONSTITUTION AND FUNDAMENTAL RIGHTS**18Hrs**

Nature and Salient Features of Indian Constitution - Preamble of Indian Constitution - Union and its Territories - Citizenship - Definition of State- General Principles Relating to Fundamental Rights.

UNIT 3 – RIGHT TO EQUALITY AND FUNDAMENTAL FREEDOMS**18Hrs.**

Right to Equality (Art. 14-18) - Freedoms and Restrictions Under Art.19 - Protection Against Ex-post Facto Law - Guarantee Against Double Jeopardy - Privilege Against Self-incrimination - Right to Life and Personal Liberty - Right to Education – Protection Against Arrest and Preventive Detention- Right Against Exploitation.

UNIT 4 – RELIGIOUS RIGHTS AND CONSTITUTIONAL REMEDIES**17Hrs.**

Right to Freedom of Religion - Cultural and Educational Rights - Right to Constitutional Remedies.

UNIT 5 – DIRECTIVE PRINCIPLES OF STATE POLICY & FUNDAMENTAL DUTIES**17Hrs**

Directive Principles of State Policy – Significance – Nature – Classification - Application and Judicial Interpretation - Relationship Between Fundamental Rights and Directive Principles - Fundamental Duties – Significance - Judicial Interpretation.

Max. 85 Hours**COURSE OUTCOMES:**

CO1: To help students understand both the legal and political aspects of the important constitutional decisions that has shaped our country.

CO2: Imparting the significance of fundamental rights and helps them in analyze, critically evaluate the merits and demerits in present context.

CO3: Make the students to understand about religious freedom and interpret with the prevailing scenario.

CO4: Helps the students to possess a factual and practical knowledge of directive principles and fundamental duties

CO5: Make the students to understand the spirit of the Constitution

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Shukla, V.N., Constitution of India, Eastern Book Agency, Lucknow, 10th Edition, 2014.
2. Jain, M.P., Indian Constitutional Law, Lexis Nexis, Nagpur, 6th Edition, 2013.
3. Seervai, H.N., Constitutional Law of India, Universal Law Publishing Co., Reprint, New Delhi, 2013.
4. Bakshi, P.M., The Constitution of India, Universal Law Publishing Co., New Delhi, 10th Edition, 2014.
5. Basu, D.D., Introduction to the Constitution of India, Lexis Nexis Publication, Nagpur, 22nd Edition, 2015

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1304	FAMILY LAW – I	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles in personal laws.
- To impart knowledge about various sources of personal laws.
- To endow the students with knowledge of both the codified and uncoded portions of personal laws.

UNIT 1 – INTRODUCTION**15Hrs.**

Nature and origin of Hindu Law, Muslim Law, Christian Law- Sources and schools of Hindu Law and Muslim law

UNIT 2 – MARRIAGE AND DIVORCE UNDER THE HINDU MARRIAGE ACT & SPECIAL MARRIAGE ACT**18Hrs.**

Marriage-Essentials & conditions- Doctrine of Factum Valet- Matrimonial Remedies - Restitution of Conjugal Rights - Judicial Separation - Nullity of Marriage - Void Marriage & Voidable Marriage - Grounds of Divorce - Legitimacy of Children - Ancillary Relief - Alimony Pendente lite - Permanent Alimony and Maintenance - Custody of Children- Special Marriage Act.

UNIT 3 – ADOPTION AND MAINTENANCE UNDER THE HINDU ADOPTION AND MAINTENANCE ACT, 1956**18Hrs.**

Adoption-Conditions and ceremonies- Who may take - Who may give - Effect of Adoption - Relationship of Adopted Child-Maintenance: Wife- Widowed Daughter-in-law - Children and Aged Parents - Amount of Maintenance - Maintenance of Dependant-surrogacy-recent trends.

UNIT 4 – MOHAMMEDAN LAW & CHRISTIAN LAW**17Hrs.**

Marriage- Contract or Sacrament- Essentials of a Valid Marriage- Muta Marriage- Dower: Concept and Legal Significance- Divorce: Types- Dissolution of Muslim Marriage Act, 1939. Maintenance Under Mohammedan Law- Sec. 125 Cr.P.C- Muslim Women (Protection of Rights on Divorce) Act, 1986

Christian Marriage Act of 1872- Conditions for Marriage- Registration- Special Provisions for Indian Christians- The Indian Divorce Act, 1869- Grounds for Divorce- Recent Amendments.

UNIT 5 – GUARDIANSHIP UNDER THE HINDU MINORITY AND GUARDIANSHIP ACT, 1956**17Hrs.**

Natural Guardian – Powers of Natural Guardian - Testamentary Guardian – Powers of Testamentary Guardian - Guardianship of Minor's Property - Custody of Minor - Consideration for Appointment of Guardian.

Max. 85 Hours**COURSE OUTCOMES:**

On completion of the course the student will be able to

CO1: Centers around the core concept relating to traditional law with the reformed modern Hindu law which is based on statutes.

CO2: Emphasized on the concept of marriage and divorce under Hindu and Muslim law.

CO3: Gives a better understanding of the core concepts of Hindu adoption laws.

CO4: This course also helps students analyze it from sociological perspective thereby understanding the importance of adoption laws.

CO5: Emphasized the law relating to guardianship and the importance of guardian in matter relating to wards.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Prof. G.C.V. Subba Rao's Family Law in India Revised by Prof. (Dr.) T.V. Subba Rao & Prof. (Dr.) Vijender Kumar, Narender Gogia & Company (10th ed.) (Reprint) 2018
2. Dr. Paras Diwan, Family Law: Allahabad Law House, (11th ed.) 2018
3. Prof. Kusum, Family Law Lectures: Lexis Nexis Butterworths Wadhwa (3rd ed.)
4. Gandhi, B.M., Family Law: Eastern Book Company, New Delhi, (8th ed.) 2012.
5. M. Hidayatullah and Arshad Hidayatullah, Mulla Principles of Mahomedan Law, Lexis Nexis Butterworths Wadhwa Nagpur (19th ed) 2010

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

STA 1103	தமிழ்	வி	ப	செ	வரவு	மொத்த மதிப்பெண்கள்
		3	0	0	3	100

நோக்கம்**பாட நோக்கம்:**

மாணவர்களுக்கு தமிழ் இலக்கிய பரப்பை எடுத்துரைத்து சிற்றிலக்கியம், உரைநடை, புதினம், சிறுகதை, புதுக்கவிதை ஆகிய இலக்கிய வகைமைகளை அறிமுகப்படுத்துதல்.

அலகு ஒன்று: தமிழ் இலக்கிய வரலாறு**9 Hrs.**

சிற்றிலக்கியம் - தோற்றமும் வளர்ச்சியும்- உரைநடை - தோற்றமும் வளர்ச்சியும்- புதினம் - தோற்றமும் வளர்ச்சியும்- சிறுகதை - தோற்றமும் வளர்ச்சியும்- புதுக்கவிதை - தோற்றமும் வளர்ச்சியும்

அலகு இரண்டு: சிற்றிலக்கியம்**9 Hrs.**

கலிங்கத்துப்பரணி - போர்பாடியது: 404 --- 408 பாடல்கள்- குற்றாலக்குறவஞ்சி - மலைவளம்- i. வானரங்கள் கனிகொடுத்து ... எனத்தொடங்கும் பாடல்- ii. முழங்குதிரைப்புனலருவிகழங்கென முத்தாடும் ... என தொடங்கும் பாடல்

அலகு மூன்று: புதுக்கவிதைகள்**9 Hrs.**

பாரதியார் - நெஞ்சு பொறுக்குதிலையே ... என்று தொடங்கும் கவிதை.
பாரதிதாசன் - உலக ஒற்றுமை - தன்பெண்டுதன்பிள்ளை... என்று தொடங்கும் கவிதை.
நா.காமராசன் - கருப்பு மலர்கள்- காகிதப்பூக்கள் - கால மழைத்தூறலிலே... என்று தொடங்கும் கவிதை
இன்குலாப் - மரங்களின் சுற்றம்
பாரதிபுத்திரன் - மாரிக்கால இரவுகள்- சிவகாசி சிசுக்கள் - மகனே அன்றொரு நாள்.... என்று தொடங்கும் கவிதை

அலகு நான்கு: சிறுகதை மற்றும் புதினம்**9 Hrs.**

புதுமைப்பித்தன் சிறுகதைகள்: சாபவிமோசனம் - கடவுளும் கந்தசாமி பிள்ளையும் - அன்று இரவு - வாடா மல்லி - ஒருநாள் கழிந்தது
புதினம்: வாடிவாசல் - சி.சு. செல்லப்பா

அலகு ஐந்து: உரைநடை பகுதி**9 Hrs.****பண்டைத்தமிழர் வாழ்வும் வழிபாடும் - கலாநிதி க.கைலாசபதி****Max. 45 Hrs.****பாடத்தின் வழியே பெறும் திறன்**

1. நெடிய தமிழ் இலக்கிய வரலாற்றில் சிற்றிலக்கியம், உரைநடை, புதினம், சிறுகதை, புதுக்கவிதை ஆகிய இலக்கிய வகைமைகளை அறிதல்.
2. பல்வேறு இலக்கிய ஆளுமைகளையும் அவர்தம் படைப்பு, மொழி நடை, மொழிப்பற்று ஆகியவற்றை உணர்ந்து கொள்ளுதல்.
3. நவீன சிந்தனைகளோடு மாணவர்தம் கருத்தாக்கங்கள் உருப்பெறல்.
4. படைப்பாக்க உத்திகளையும் திறன்களையும் அறிதல்.
5. மாணவர்கள் இலக்கிய படைப்புகளை உருவாக்க அறிந்து கொள்ளுதல்.
6. இப்பாடம் மாணவர்களின் வாழ்வியல் முறையை மேம்படுத்துகிறது

பார்வை நூல்கள்

1. புதுக்கவிதை தோற்றமும் வளர்ச்சியும் - வல்லிக் கண்ணன்
2. தமிழில் சிறுகதை வரலாறும் வளர்ச்சியும் - சிட்டி, சிவபாதசுந்தரம்
3. தமிழ் நாவல் (புதினம்) தோற்றமும் வளர்ச்சியும் - சிட்டி, சிவபாதசுந்தரம்,

4. தமிழ் உரைநடை வரலாறு - வி.செல்வநாயகம்
5. நூற்றாண்டு தமிழ் உரைநடை-சு.சக்திவேல்
6. கலிங்கத்துப்பரணி-புலியூர்க்கேசிகன்உரை
7. குற்றாலக்குறவஞ்சி-புலியூர்க்கேசிகன்உரை
8. பாரதியார் கவிதைகள்
9. பாரதிதாசன் கவிதைகள்
10. மரங்களின் சுற்றம் - இன்குலாப்
11. கருப்பு மலர்கள் - நா.காமராசன்
12. மாரிக்கால இரவுகள் - பாரதிபுத்திரன்
13. புதுமைப்பித்தன் சிறுகதைகள்
14. வாடி வாசல் - சி.சு. செல்லப்பா
15. பண்டைத்தமிழர் வாழ்வும் வழிபாடும் - கலாநிதி க. கைலாசபதி

SFR1103	FRENCH	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES

- To teach basic skills in written and spoken French.
- To encourage students' oral and written mastery of the language.

UNIT 1 –**9 Hrs**

Se présenter à des publics différents et saluer - Saluer et Prendre congé - La présentation. Pronoms, objets et sujets. Articles définis / indéfinis. Des cartes d'identité. Présenter quelqu'un. Les chiffres 1 à 50. Épreuves.

UNIT 2 –**9 Hrs**

Exprimer ses goûts, ses préférences. La négation. Les mois et les jours / le calendrier - Les verbes - L'interrogation avec intonation - Décrire un lieu, les noms des différentes salles - Les adjectifs - Les articles. Épreuves.

UNIT 3 –**9 Hrs**

Donner des directions / localiser un lieu / trouver un lieu - Les verbes aller et mettre - L'article contracté et les prépositions de lieu - L'impératif - Les mots de caractérisation d'un lieu et les lieux urbains - Les transports. Épreuves.

UNIT 4 –**9 Hrs.**

Discuter et acheter des produits - Les expressions de quantité - Les fruits, les légumes, les produits alimentaires - les produits propres aux pays différents. - La négation - le COD - Le conditionnel et les verbes irréguliers - Épreuves.

UNIT 5 –**9 Hrs.**

Fixer un rendez-vous avec le médecin - L'heure et Les nombres de 51 à 100 - L'interrogation avec est-ce que - Les parties du corps, avoir + les expressions et les maladies communes - Les adjectifs possessifs - Le COI - L'entraînement DELF et épreuves.

Max. 45 Hours**TEXT / REFERENCE BOOKS**

1. Panorama De La Langue Francaise: Level 1 by Jacky Girardet, Jean-Marie Cridlig, CLE International, 2004.
2. Krishnan, C & Albert Adeline, Le Tramway Volant - I, Saraswathi House Pvt Ltd, India, 2011.
3. CAPELLE Guy; MENAND, Robert Taxi-1, Hachette, Paris, 2008.
4. MERIEUX, Régine; LOISEAU, Yves, Connexions-1, Didier, Paris, 2004.
5. MIQUEL, Claire, Vite et Bien-1, CLE International, Paris, 2009.
6. POISSON QUINTON, Sylvie, SIREJOLS, Evelyne, Amical -1, CLE International, Paris, 20011

SEMESTER – II

SAL1203	SPECIAL CONTRACTS	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles of law.
- To acquaint students the knowledge of special contracts apart from equipping with general principles of contract.
- This course equips the students to better appreciate the legal services required in a corporate office so that they can enhance their relevance as a lawyer in society.

UNIT 1 – CONTRACT OF INDEMNITY & CONTRACT OF GUARANTEE**15Hrs.**

Contract of Indemnity: Definition - English and Indian Distinction- Rights of the Indemnity Holder and Indemnifier- Implied Indemnity -Contract of Guarantee: Essentials and Nature of Guarantee- Distinction Between Guarantee and Indemnity – Continuing Guarantee- Co Surety- Kinds – Rights of Surety- Nature and Extent of Surety's Liability- Discharge of Surety's Liability.

UNIT 2 – CONTRACT OF BAILMENT & CONTRACT OF PLEDGE**18Hrs.**

Contract of Bailment: Definition of Bailment – Kinds of Bailees – Rights and Duties of Bailor & Bailee - Finder of Lost Goods as a Bailee.

Contract of Pledge: Meaning- Comparison with Bailment – Definition – Rights of the Pawner and Pawnee- Pledge by non-owner- Lien- Kinds of Lien- Their Nature and Incidents.

UNIT 3 – CONTRACT OF AGENCY**18Hrs.**

Kinds of Agents and Agencies - Distinction Between Agent and Servant – Essentials of an Agency Transaction – Various Methods of Creation of Agency - Delegation – Duties and Rights of Agent – Scope and Extent of Agent's Authority – Liability of the Agent towards the Principal and Vice Versa - Termination of Agency Contract - Liability of the Principal and Agent Before and After such Termination.

UNIT 4 – THE SALE OF GOODS ACT, 1930**17 Hrs.**

Definition - Sale and Agreement to Sell- Hire Purchase Agreement - Specific Goods- Future Goods- Mercantile Agent - How Sale is made- Rules for Fixing Price- Perishable Goods - Stipulation as to time and Other Stipulation- Conditions and Warranties – Effect of Breach- When Condition is treated as Warranty- Implied Conditions and Warranties - Sale by non-owners- Nemo dat quod non habet- Rules as to Delivery- Rights of Unpaid Vendor – Remedies Available to Seller and Buyer- Auction Sale.

UNIT 5 – THE INDIAN PARTNERSHIP ACT, 1932**17Hrs.**

Definition of Partnership- Essentials of Partnership- Distinction Between Partnership and Co-ownership – Joint Hindu Family – Incorporation of Companies – Kinds of Partners and Duration of Partnership - Mutual Rights and Duties of Partners- Minor as a Partner- Rights of Legal Representative and Surviving Partners- Authority of Partners – Implied and Emergency – Principle of Agency in Partnership - Partnership Property – Tests - Settlement of Accounts – Goodwill- Distribution of Assets - Retirement of Partners - Dissolution of Firm - Effect of non – Registration of Firm.

Max. 85 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: Made to understand the need and importance of contract of indemnity and the special relationship between the indemnifier and the indemnity holder.

CO2: Enabled the students to be familiar with the nature of contracts of Agency and the relationship between the Principal and Agent.

CO3: Made to understand the legal responsibilities and liabilities of bailor and bailee in a contract of bailment.

CO4: Enabled the students to understand the essentials of a valid sale and the legal relationship between the buyer and the seller.

CO5: Made to understand various commercial associations, legal regulation of partnership firms and joint and several liability of the partners

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. R.K Bangia, Contract (Part-2) - Law of Contract-II with Indian Partnership Act and Sale of Goods Act, Jain Book Agency, Reprint 2015.
2. G.C.V. Subba Rao, Law of Contracts – I & II, S. Gogia & Co., Hyderabad, 11th ed., 2014.
3. Jack Beatson et.al, Ansons Law of Contract, Oxford University Press, 29th ed., 2010.
4. Pollock and Mulla, The Indian Partnership Act, Lexis Nexis Butterworths Wadhwa Nagpur, 2007 ed., Reprint 2011.
5. Avatar Singh, Law of Contract and Specific Relief, Eastern Book Company, Lucknow, 10th ed., 2008.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.****PART A:** 6 Questions to be answered out of 8 questions and each question carries 5 Marks**30 Marks****PART B:** 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks**40 Marks****PART C:** 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks**30 Marks**

SAL1204	JURISPRUDENCE (LEGAL METHOD, INDIAN LEGAL SYSTEM AND BASIC THEORY OF LAW)	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To provide the students with basic knowledge, abilities and skills in the area of law.
- To learn legal concepts and theories Law in relation to other social controls and the relationship of law and justice.
- To understand theories of justice and concepts of obligation and authority and to engage in identification, articulation and critical evaluation of legal theory and the implications for policy.

UNIT 1 – INTRODUCTION**15Hrs.**

Meaning of Jurisprudence- Legal Theory and Legal Concepts- Nature-Need and Scope - Notion of Law, Justice and Morality- Schools of Jurisprudence- Introduction and Scope.

UNIT 2 – SCHOOLS OF THOUGHT AND THEORIES**18Hrs.**

Natural Law School- Analytical School- Sociological School- Historical School- Realist School- Economic School- Imperative Theory- Pure Theory.

UNIT 3 – SOURCES OF LAW**18Hrs.**

Custom: Meaning-Origin and Essentials of a Valid Custom – Precedent: Definition, Importance- Merit and Demerits of the Doctrine - Legislation: Meaning, Types of Legislations-Place of Legislation in Modern Times.

UNIT 4 – LEGAL CONCEPTS**17Hrs.**

Definition of Rights- Theories of Right - Elements of Legal Right - Classification of Rights - Meaning of Duty - Classification of Duty - Co-relation Between Rights and Duties.

Obligations- Personality- Person: meaning and Definition – Different Kinds of Persons (Natural Person and Juristic Person)– Legal Status of Animals, Idols and Unborn Child – Theories of Corporate Personality- Possession and Ownership.

UNIT 5 – THEORY AND CONCEPT OF JUSTICE**17Hrs**

Basic Legal Concept of Reasonableness with Reference to Indian Cases- The Basic Structure Doctrine- KesavanandaBharathiVs. State of Kerala: Shankari Prasad Deo Vs. Union of India: Sajjan Singh Vs. State of Rajasthan: I.C. GolakNath Vs. State of Punjab: Indira Nehru Gandhi Vs. Raj Narain.

Max. 85 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

- CO1:** Made to understand the meaning, nature and scope of jurisprudence.
- CO2:** Enabled the students to understand various schools of Jurisprudence.
- CO3:** Created awareness on various sources of law.
- CO4:** Made to understand the relationship between ethics and the law.
- CO5:** Created awareness on the doctrine of Basic Structure.
- CO6:** This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

- Dr Avtar Singh, Dr Harpreet Kaur, Introduction to Jurisprudence, Lexis Nexis 4th Edition, 2013.
- Smith, A.T.H., Glanville Willaim's Learning the Law, Sweet & Maxwell, 15th edition, 2013.
- Mahajan, V.D., Jurisprudence and Legal Theory, Eastern book company, 5th Edition, Reprinted 2015.
- Granville Austin, IndianConstitution, The Cornerstone of a Nation, New Delhi, Oxford University Press, 3rd Edition, 2007
- AmartyaSen, The Idea of Justice, Cambridge, Mass.: Belknap Press/Harvard University Press, 10th Edition, 2009.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.****PART A:** 6 Questions to be answered out of 8 questions and each question carries 5 Marks**30 Marks****PART B:** 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks **40 Marks****PART C:** 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks**30 Marks**

SAL1401	CONSTITUTIONAL LAW – II	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- The purpose of the course is to acquaint the students with remarkable postulates of the Constitution like the Federalism, Centre – State relations and Indian Judiciary.
- To study the powers and functions of President and Governor
- To gain knowledge about the emergency provisions enshrined under the Constitution of India.

UNIT 1 – INDIAN FEDERALISM AND CENTRE – STATE RELATIONS**15Hrs.**

Federalism - Definition and characteristics of Federalism - Co-operative Federalism Distribution of Legislative Powers - Doctrine of Territorial Nexus – Subject matter of laws made by Parliament and Legislatures of States - Doctrine of Harmonious Construction - Doctrine of Pith and Substance – Doctrine of Occupied Field - Colourable Legislation - Parliament's Power to Legislate in State List – Doctrine of Repugnancy - Administrative relations-Financial Relations: Freedom of Trade and Commerce.

UNIT 2 – UNION AND STATE EXECUTIVE**18Hrs.**

Union Executive - The President - Election, Term of Office, Powers and functions, Impeachment – Immunities – Pardoning power -Ordinance making power - Council of Ministers.

The State Executive - Governor – Appointment, Powers and functions - Immunities – Pardoning power – Removal of Governor, Doctrine of Pleasure -State Council of Ministers.

UNIT 3 – LEGISLATURE AND JUDICIARY**18Hrs.**

Parliament and State legislatures – Office of the Speaker – Qualification/Disqualification of Members - Legislative Procedures – Privileges - Judicial interpretations - Anti Defection law, X Schedule

JUDICIARY: Supreme Court of India: Composition - Appointment and Removal of Judges of Supreme Court - Writ Jurisdiction of Supreme Court under Art 32 - Appellate Jurisdiction - Special Leave to Appeal - Power of Review - Advisory Jurisdiction - Public Interest Litigation – Compensatory Jurisprudence - Independence of Judiciary – Tribunals - State Judiciary -High Courts in the States - Composition, Appointment and Removal of Judges -Writ Jurisdiction of High Courts under Art. 226.

UNIT 4 – AMENDMENT AND EMERGENCY PROVISIONS**17Hrs.**

AMENDMENTS: Procedure – Kinds - Amendment of Fundamental Rights – Limitations.

EMERGENCY PROVISIONS: National Emergency - Duty of the Union to protect the States against external aggression and internal disturbance - Power of Union Executive to issue directions and the effect of non-compliance. State Emergency - Imposition of President's Rule in States – Grounds, Limitations, Parliamentary Control, Judicial Review (Articles 356-357) – Financial Emergency (Article 360) Emergency and suspension of fundamental rights

UNIT 5 – OTHER CONSTITUTIONAL FUNCTIONARIES**17Hrs.**

Election Commission of India: Organisation, powers and functions, Union Public Service Commission, State Public Service Commission, Comptroller and Auditor General, Attorney General & Advocate General– Constitutional safeguards for Civil Servants Art 311 - Protection against arbitrary dismissal, removal, or reduction in rank – Exceptions to Art 311 – Role of Finance Commission - Interstate Council – National Development Council - Local Self Government (Panchayat Raj)

Max. 85 Hours**COURSE OUTCOMES:**

On completion of the course the student will be able to

CO1: Helps the students to understand the system of Government and the numerous changes in parliament and state legislature.

CO2: Gives them a clear picture of functioning of State Legislature, Election Commission and Other autonomous bodies.

CO3: Emergency provisions which opens the wider discussion to student community in debating aspects.

CO4: A detailed view of teaching of Amendments to the students will help them understanding the changes in the society.

CO5: The concept of Judiciary will open various avenues of practicality to students.

CO6: This Course will equip the students with the required Professional Skills.

TEXT / REFERENCE BOOKS

1. Shukla, V.N., *Constitution of India*, Eastern Book Agency, Lucknow, 10th Edition, 2014.
2. Jain, M.P., *Indian Constitutional Law*, Lexis Nexis, Nagpur, 6th Edition, 2013.
3. Seervai, H.N., *Constitutional Law of India*, Universal Law Publishing Co., Reprint, New Delhi, 2013.
4. Bakshi, P.M., *The Constitution of India*, Universal Law Publishing Co., New Delhi, 10th Edition, 2014.
5. Basu, D.D., *Introduction to the Constitution of India*, Lexis Nexis Publication, Nagpur, 22nd Edition, 2015.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks:100

Exam Duration: 3 Hrs.

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1402	FAMILY LAW – II	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles in personal laws.
- To gain knowledge about Law of inheritance under various personal laws.
- To acquaint knowledge on religious and charitable endowments.

UNIT 1 – INTRODUCTION**15 Hrs.**

Concept of Joint Hindu Family and Coparcenary: Formation and Incidence of coparcenary property under Mitakshara and Dayabhaga Schools- Alienation of Joint Family Property- Karta of Joint Family: Position- Powers and Privileges.

Partition: Division of right and division of property- Persons entitled to demand partition- Re-opening of partition- Re-union

UNIT 2 – THE HINDU SUCCESSION ACT**18 Hrs.**

Intestate succession- Succession to the Property of a Male Intestate- Succession to property of Female Intestate- Women's Estate- General rules of Succession- Disqualifications- Testamentary Succession.

Changes introduced by Hindu Succession (Amendment) Act, 2005: Women as Coparcener- Doctrine of Notional Partition- Special Rules relating to Dwelling House

UNIT 3 – MOHAMEDAN LAW**18 Hrs.**

Law relating to Inheritance: General rules of inheritance of Sunnis and Shias- Classification of heirs.

Law Relating to Gifts: Meaning and essentials of a valid gift- Gift of Mushaa- Gift made during Marz-ul-Maut.

Law Relating to Wills: Capacity to make Will- Subject matter of Will- To whom Will can be made- Abatement of legacies.

UNIT 4 – INDIAN SUCCESSION ACT, 1925**17 Hrs.**

Christian Law of Inheritance- Succession to a Male Intestate- Succession to a Female Intestate

Domicile- Will- Codicil- Interpretation- Revocation of Will- Bequests- Conditional- Contingent or Void Bequest- Legacies- Probate and Letters of Administration- Executor- Administrators- Succession Certificate.

UNIT 5 – RELIGIOUS AND CHARITABLE ENDOWMENTS**17 Hrs.**

Meaning- Kinds and Essentials- Math- Powers and Obligations of Mahant and Shefait- Wakf: Meaning- Kinds- Advantages and Disadvantages- Pre-emption: Origin- Classification- Effects- Constitutional Validity.

Max. 85 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This course helps students to understand the property relations in a family and understanding the legal incidence of joint family and testamentary succession.

CO2: Knowledge and understanding of intestate succession under the act.

CO3: Student gain knowledge of Mohammedan law of inheritance and succession.

CO4: Emphasized on the appraise of property transaction and its nature that exist in Hindu family relations and the importance of ancestral property and Karta in Hindu family.

CO5: Revolve around the Religious and Charitable Endowments

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

- Prof. G.C.V. Subba Rao's Family Law in India Revised by Prof. (Dr.) T.V. Subba Rao & Prof. (Dr.) Vijender Kumar, Narender Gogia & Company (10th ed.) (Reprint) 2018
- Dr. Paras Diwan, Family Law: Allahabad Law House, (11th ed.) 2018
- Dr. Poonam Pradhan Saxena, Family Law Lectures: Lexis Nexis Publication (4th ed.) 2019
- Gandhi, B.M., Family Law: Eastern Book Company, New Delhi, (8th ed.) 2012.
- M. Hidayatullah and Arshad Hidayatullah, Mulla Principles of Mahomedan Law, Lexis Nexis Butterworths Wadhwa Nagpur (19th ed) 2010

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1205	ENVIRONMENTAL STUDIES	L	T	P	Credit	Total Marks
		3	1	0	3	100

COURSE OBJECTIVES

- To gain a rigorous foundation in various disciplines as they apply to environmental science, such as ecology, evolutionary biology, hydrology, and human behavior.
- To understand primary environmental problems (e.g., invasive species, climate change, small populations, water pollution) and the reasons behind those problems and potential solutions.
- Students will learn skills required to research and analyze environmental issues scientifically and learn how to use those skills in applied situations such as careers that may involve environmental problems and/or issues.

UNIT 1 – INTRODUCTION**2Hrs.**

The Multidisciplinary Nature Of Environment Studies – Definition - Scope And Importance - Need For Public Awareness.

UNIT 2 – NATURAL RESOURCES**8Hrs.**

Natural Resources: Renewable And Non-Renewable Resources - Natural Resources And Associated Problems - Forest Resources: Use And Over-Exploitation, Deforestation, Case Studies - Timber Extraction, Mining, Dams And Their Effects On Forest And Tribal People - Water Resources: Use And Over-Utilization Of Surface And Ground Water, Floods, Drought - Conflicts Over Water, Dams-Benefits And Problems - Mineral Resources: Use And Exploitation - Environmental Effects Of Extracting And Using Mineral Resources, Case Studies - Food Resources: World Food Problems - Changes Caused By Agriculture And Overgrazing - Effects Of Modern Agriculture, Fertilizer-Pesticide Problems - Water Logging, Salinity, Case Studies - Energy Resources: Growing Energy Needs - Renewable And Non Renewable Energy Sources - Use Of Alternate Energy Sources - Land Resources: Land As A Resource, Land Degradation - Man Induced Landslides - Soil Erosion And Desertification - Role Of An Individual In Conservation Of Natural Resources - Equitable Use Of Resources For Sustainable Lifestyles.

UNIT- III ECO SYSTEM**6Hrs.**

Concept Of An Ecosystem - Structure And Function Of An Ecosystem - Producers, Consumers And Decomposers - Energy Flow In The Ecosystem - Ecological Succession - Food Chains, Food Webs And Ecological Pyramids - Types, Characteristic Features, Structure And Function Of The Following Ecosystem:- Forest Ecosystem Grassland Ecosystem Desert Ecosystem Aquatic Ecosystems (Ponds, Streams, Lakes, Rivers, Oceans, Estuaries)

UNIT- 4BIODIVERSITY AND ITS CONSERVATION**8Hrs.**

Introduction – Definition: Genetic, Species And Ecosystem Diversity - Bio Geographical Classification Of India Value Of Biodiversity - Consumptive Use, Productive Use, Social, Ethical, Aesthetic And Option - Values Biodiversity At Global, National And Local Level - India As A Mega-Diversity Nation - Hot-Spots Of Biodiversity - Threats To Biodiversity: Habitat Loss, Poaching Of Wildlife - Man-Wildlife Conflicts - Endangered And Endemic Species Of India Conservation Of Biodiversity - In-Situ And Ex-Situ Conservation Of Biodiversity.

UNIT 5 – ENVIRONMENTAL POLLUTION AND HUMAN RIGHTS**8Hrs.**

Environmental Pollution – Definition, Cause & Effects - Control Measures Of: Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Noise Pollution Thermal Pollution -Nuclear Hazards - Solid Waste Management: Causes, Effects And Control Measures Of Urban And Industrial Wastes - Role Of An Individual In Prevention Of Pollution - Pollution Case Studies - Disaster Management - Floods, Earthquake, Cyclone And Landslides.

UNIT 6 – SOCIAL ISSUES AND THE ENVIRONMENT**7Hrs.**

Social Issues And The Environment - From Unsustainable To Sustainable Development - Urban Problems Related To Energy - Water Conservation - Rain Water Harvesting - Watershed Management Resettlement And Rehabilitation Of People - Its Problems And Concerns Environmental Ethics - Issues And Possible Solutions - Climate Change, Global Warming, Acid Rain - Ozone Layer Depletion - Nuclear Accidents And Holocaust - Wasteland Reclamation, Consumerism and Waste Products - Environment Protection Act - Air (Prevention And Control Of Pollution) Act - Water (Prevention and Control Of Pollution) Act - Wildlife Protection Act, Forest Conservation Act - Issues Involved In Enforcement Of Environmental Legislation.

UNIT 7 – HUMAN POPULATION AND THE ENVIRONMENT**6Hrs.**

Human Population And The Environment Population Growth - Variation Among Nations - Population Explosion – Family Welfare Program - Environment And Human Health - Human Rights - Value Education - HIV/AIDS - Women And Child Welfare - Role Of Information Technology In Environment And Human Health.

UNIT 8 – FIELD WORK

- Visit To A Local Area To Document Environmental Assets River/ Forest/Grassland/Hill/Mountain
- Visit To A Local Polluted Site-Urban/Rural/Industrial/Agricultural
- Study of Common Plants, Insects, Birds.
- Study Of Simple Ecosystems-Pond, River, Hill Slopes, Etc.

Max. 45 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: Students are able to understand various aspects of Environment.

CO2: Students are able to assess the costs involved in Environment Protection.

CO3: Students are equipped with the concept of sustainable development.

CO4: Students are able to identify how globalized processes impact socio-ecological systems.

CO5: Students are made to understand the importance of the renewable and non -renewable resources

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Bharucha Erach, Textbook for Environmental studies, Bharati Vidyapeeth Institute of Education and Research, Pune, 2004.
2. Dhankar Rajesh, Environmental Studies, Daya Publishing House, 2006.
3. Agarwal, K.C. Environmental Biology, Nidi Publ. Ltd. Bikaner, 2001.
4. Rajasekar. R, Environmental Studies From Crisis To Cure, Oxford university press 3rd Edn., 2015
5. ShyamDiwan& Armin Rosencranz, Environmental Law and Policy in India, Oxford University Press, 2nd Edition, 2001.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks **40 Marks**

PART C: 2 Questions to be answered out of 4 questions and each carries 15 marks

30 Marks

SBA1404	PERSONALITY DEVELOPMENT	L	T	P	Credit	Total Marks
		3	1	0	3	100

COURSE OBJECTIVES

- This course enhances and groom student's outer and inner self to bring about a positive change.
- This course improve soft skills, communicate skills effectively and develop students overall personality to gain confidence and helps them present assertively.
- To provide an opportunity for the students to learn the techniques in personality development.

UNIT 1 – INTRODUCTION TO PERSONALITY**9 Hrs.**

Definition & Basics of personality- Analyzing strength & weaknesses-Corporate theories on personality Development- Increasing Vocabulary-Body Language- Preparation of Self Introduction.

UNIT 2 – TECHNIQUES IN PERSONALITY DEVELOPMENT STAGE I**9 Hrs.**

Communication Skills - Listening- Communication Barriers-Overcoming these Barriers-Building Self Esteem and Self Confidence- Working on attitudes

UNIT 3 – TECHNIQUES IN PERSONALITY DEVELOPMENT STAGE II**9 Hrs.**

Introduction to Leadership-Leadership Styles-Group Dynamics-Team Building

UNIT 4 – TECHNIQUES IN PERSONALITY DEVELOPMENT STAGE III**9 Hrs.**

Interpersonal Relationships- Analysis of Ego States, transactions, & Life positions-Stress Management-Causes, Impact & Managing Stress.

UNIT 5 – TECHNIQUES IN PERSONALITY DEVELOPMENT STAGE IV 9 Hrs.

Introduction to conflict management- Levels of conflict-Managing conflict-Time Management- Concept of time management- Steps towards better time management

Max. 45 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This Course is designed to equip students to face challenges in a confident way.

CO2: Helps the students to communicate effectively.

CO3: Will enhance the student's capacity of learning and other aspects.

CO4: Will enrich the students to take up leadership goals and develop abilities.

CO5: This course will help them to manage interpersonal relationships and other self discipline activities like time management, behavioral aspects and so on.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Mile, D.J (2004). Power of positive thinking. Delhi: Rohan Book Company.
2. Pravesh Kumar (2005). All about self- Motivation. New Delhi: Goodwill Publishing House.
3. Dudley, G.A. (2004). Double your learning power. Delhi: Konark Press. Thomas Publishing Group Ltd.
4. Lorayne, H. (2004). How to develop a super power memory. Delhi: Konark Press. Thomas Publishing Group Ltd.
5. Hurlock, E.B (2006). Personality Development, 28th Reprint. New Delhi: Tata Mc Graw Hill.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions to be answered out of 4 questions and each carries 15 marks

30 Marks

SEMESTER – III

SAL1305	LAW OF CRIMES – I (IPC)	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles in criminal law.
- To understand the meaning of crime and the essential principles of criminal liability
- To study about various offences under the Indian Penal Code.

UNIT 1 – INTRODUCTION**15Hrs.**

Constituents of Crime and General Principles of Criminal Liability- Punishment: Theories, Crime: Elements of Crime - Actus Reus - Mens Rea - Concurrence between Actus Reus & Mensrea - Causation- Principle of Legality - Corporate Liability - Vicarious Liability Specially Referring to Sec. 34, 114, 149 of IPC- Strict Liability- Jurisdiction of IPC (Sec. 2-5).

UNIT 2 – GENERAL EXCEPTIONS**18Hrs.**

Judicial Acts (Sec.77, 78) - Mistake of Fact (Sec. 76-79) - Defence of Accident (Sec.80) -Defence of Necessity (Sec.81) - Defence of Minority (Sec. 82,83) - Defence of Insanity (Sec.84) - Defence of Intoxication (Sec. 85,86) - Consent (Sec. 87-92) - Right of Private Defence (Sec. 96 to 106) - Abetment (Sec. 107- 120) - Criminal Conspiracy (Sec. 120A and 120B).

UNIT 3 – OFFENCES AGAINST HUMAN BODY AND OTHER OFFENCES**18 Hrs.**

Offences Affecting Life: Culpable Homicide - Murder - Causing Death by Negligence - Dowry Death - Abetment - Attempt to Suicide - Hurt- Grievous Hurt- Acid Attack - Criminal Force and Assault - Wrongful Restraint - Wrongful Confinement - Kidnapping and Abduction - Offences Relating to Marriage: Bigamy - Adultery - Cruelty by Husband and Relatives of Husband - Sexual Offences: Rape - Amendment of Rape Laws in India - 2013 Amendment - Unnatural Offences - Other Offences: Defamation - Public Nuisance - Criminal intimidation

UNIT 4 – OFFENCES AGAINST PROPERTY AND PUBLIC TRANQUILITY**17Hrs.**

Property Offences: Theft- Extortion- Robbery- Dacoity - Criminal Misappropriation of Property - Criminal Breach of Trust - Cheating - Mischief - Criminal Trespass - Offences against Public Tranquility: Unlawful assembly - Rioting - Assaulting or obstructing public servant - Provocation and communal enmity - Affray.

UNIT 5 – OFFENCES AGAINST STATE**17Hrs.**

Waging War against the State - Assaulting High Officer - Sedition - Offences relating Army: Navy and Air force - Suffering Escape or Harboursing a State Prisoner or Prisoner of War

Max. 85 Hours**COURSE OUTCOMES:**

CO1: This Course is designed to impart to the students the conceptual foundations of crime, punishments and certain exceptions.

CO2: Helps the students in understanding the offences relating to human body, the most important aspect of criminal law with the relevance of heinous crimes of present situation.

CO3: This course focuses on another aspect of property related crimes which helps the students in choosing their area of specialization.

CO4: Enhances the students to have a wider perspective of offences against state and high commands.

CO5: Helps the students to have better perspective about the punishments and their applicability

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. G. Williams, Text Book of Criminal Law, Universal Law Publishing, New Delhi, 2012.
2. Ratanlal & DhirajLal, The Indian Penal Code, Lexis NexisWadhwa, Nagpur, 2012.
3. K.D. Gaur, Textbook on Indian Penal Code, Universal Law Publishing, New Delhi, 2012.
4. K.I. Vibhuti, PSA Pillai's Criminal Law, Lexis Nexis, ButterworthsWadhwa, Nagpur, 2012.
5. Pal, Tejinder. Supreme Court on Crimes. Chandigarh, ICC Publications, 2004.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.****PART A:** 6 Questions to be answered out of 8 questions and each question carries 5 Marks**30 Marks****PART B:** 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks **40 Marks****PART C:** 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks **30 Marks**

SAL1501	LABOUR LAW – I	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles in labour law.
- To know the significance of Trade Unions.
- To learn about various dispute settlement mechanisms under ID Act.

UNIT 1 – EVOLUTION OF LABOUR LEGISLATIONS**15Hrs.**

Meaning of Industrial Relations- Object and Scope of Labour Legislation- Concept of Master and Servant - Employer–Employee Relationship- Prevalence of Laissez-Faire Policy- State Regulation of Labour Legislations - Significance of Collective Bargaining- Standards set up by ILO to Govern Industrial Relations.

UNIT 2 – TRADE UNIONS ACT, 1926**18Hrs.**

Trade Unionism in India- Definition of Trade Union- Trade Dispute- Registration of Trade Union- Legal Status of a Registered Trade Union- Mode of Registration- Powers and Duties of Registrar- Cancellation and Dissolution of a Trade Union- Procedure for Change of Name- Amalgamation of Trade Unions- Office of the Trade Union- Their Powers and Functions- Funds of the Trade Union- Immunities Granted to Office Bearers- Recognition of Trade Union and Collective Bargaining.

UNIT 3 – INDUSTRIAL DISPUTES ACT, 1947**18Hrs.**

Object of the Act - Significance of the Terms Used in the Definition Section- Concept of Strike- Lock out - Lay-off - Retrenchment and Closure - Various Mechanisms Provided to deal with Industrial Disputes- Awards and Settlements- Protection to Workmen - Voluntary Arbitration – Labour Court – Tribunal - Unfair Labour Practices

UNIT 4 – THE WORKMEN'S COMPENSATION ACT & FACTORIES ACT**17Hrs.**

Object of the Act- Workmen Covered by the Act- Liability of the Employer to Pay Compensation- Accident Arising out of and in the Course of Employment- Notional Extension of Employer's Premises- Personal Injury- Occupational Diseases- Calculation of Compensation- Principal- Employer's Right of Indemnity- Powers and Functions of the Commissioner.

Introduction, Scope – Applicability - Definitions: factory – occupier - manufacturing process -hazardous process – worker – approval - Licensing and Registration of Factories - Notice by Occupier: Duties of Occupier and Manufacturer - Health, Safety and Welfare Measures, Working hours of Adults - Employment of Young Persons - Leaves and Wages - Special Provisions.

UNIT 5 – INDUSTRIAL EMPLOYMENT (STANDING ORDERS ACT, 1946)**17Hrs.**

Concept- Nature- Scope of Standing Orders - Procedure for Certification- Conditions for Certification- Appeals Against Certification- Binding Nature and Effect of Certified Standing Orders- Date of Operation - Posting of Standing Orders- Modification and Temporary Application of the Model Standing Orders- Interpretation and Enforcement - Penalties and Procedure.

Max. 85 Hours**COURSE OUTCOMES:**

On completion of the course the student will be able to

CO1: This course helps the students to have an idea about the need and evolution of labour legislations.

CO2: It gives scope for the students to interpret various and definitions used in the Act.

CO3: The explanation of Trade Union and its powers will give clarity about existing scenario in Industries

CO4: Various G.O's and regulation will help the students to study the law in-depth.

CO5: Detailed explanation about the dispute settlement machineries will give a practical outlook to the students

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. S.C. Srivastava, Industrial Relations and Labour Law, Vikas Publishing House, New Delhi, 6th edn., 2012.
2. Chaturvedi, Labour and Industrial Law, Central Law Agency, 2004.
3. H.L. Kumar, Workmen's Compensation Act, Universal Law Publishing, 2009.
4. A.M. Sharma, Industrial Relations And Labour Laws, Himalayan publishing House, 2nd edn 2013.
5. S. R. Samant, S. L. Dwivedi, Labour Laws, Labour Law Agency's Employer's Guide, 15th edn, 2015

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks:100

Exam Duration: 3 Hrs.

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1701	PUBLIC INTERNATIONAL LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To know about the evolution and significance of international law.
- To provide students with an overview of the functional aspects of public international law and their role in bringing nations together.
- To understand the concept of state.

UNIT 1 – INTERNATIONAL LAW – EVOLUTION AND ITS APPLICABILITY**15Hrs.**

Introduction- Definitions - Nature - Legality of International Law - Positive Morality-Theories – sources: International Customs, Treaties: Kinds of Treaties - Binding Force of Treaties - Pacta Sunt Servanda- Jus Cogens- Parties of a Treaty- Formation and Termination of Treaties, Other Sources - Subjects of International Law - Difference between International law and Municipal Law

UNIT 2 – STATES AND ITS ATTRIBUTES**18Hrs.**

Concept of State- Essential Ingredients of State-Different kinds of States- Recognition of States: De Facto and De Jure - Theories of Recognition- Recognition of Belligerency and Recognition of Insurgency- Collective Recognition - State Responsibility and State Succession: Responsibility of States – Original and Vicarious Responsibility- State Responsibility for various Acts- Individual Acts, Mob Violence, Insurgency, etc. State Succession: Theories of State Succession- Rights and Duties arising out of State Succession.

Jurisdiction of State: Territorial and Exterritorial Jurisdiction: Territorial Sovereignty Exemptions and immunity from state jurisdiction, Nationality, Asylum and Extradition

UNIT 3 – DIPLOMATIC AGENTS AND CONSULAR RELATIONS**18Hrs.**

Diplomatic Agents and Consuls: Institution of diplomatic agents - Vienna convention on diplomatic relations, 1961 - Vienna convention on consular relations, 1963 - Classes of diplomatic representatives and consuls - Immunities and protection

UNIT 4 – MARITIME JURISDICTION**17Hrs.**

Law of the Sea: UNCLOS - Extent and Measurement of territorial Waters – High Seas- Contiguous Zone - Exclusive Economic Zone - Continental Shelf, Sea Bed and Ocean Floor - International Sea Bed Authority - Sea Piracy.

UNIT 5 – THE UN AND SETTLEMENT OF INTERNATIONAL DISPUTES**17Hrs.**

The United Nations Organization: League of nations: Origin, purpose - Principles and membership of UNO, Organs: The General Assembly - Security Council and Secretariat - Jurisdiction and powers, The International Court of Justice, composition, jurisdiction and contribution to international law- International Criminal Court - Legal and Political Disputes - Pacific Means of Settlement- Arbitration- Negotiation-Mediation-Good Offices- Conciliation-Settlement under UNO- Compulsive Means– Retortion, Reprisals, Embargo, Pacific Blockade, Intervention- Institutional Settlement of Disputes.

Max. 85 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: Introduces students to the new regime of law and its applicability to our Nation.

CO2: Students will have an idea of laws prevailing across the countries and their accountability.

CO3: The Concepts of the Law governing the Sea and their Conventions will help the students to understand new arena of treaties and agreements.

CO4: Extradition and Asylum - treaties and regulations will help them to understand practical issues prevailing in and across nations.

CO5: The dispute settlement machinery at the International level will be gives them a brief practical approach.

CO6: This Course will equip the students with the required Professional Skills.

TEXT / REFERENCE BOOKS

1. Malcolm Nathan Shaw, International Law, Cambridge University Press, 2003.
2. Ian Brownlie, Principles of Public International Law, Oxford University Press, 2008.
3. Lassa Oppenheim, Robert Jennings and Arthur Watts, Oppenheim's International Law, Oxford University Press, USA, 2008.
4. S K Kapoor, International Law and Human Rights, Central Law Agency, Allahabad, (14th Edn. 2002).
5. H.O. Agarwal, International Law & Human Rights, Central Law Publications, 2000

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks:100

Exam Duration: 3 Hrs.

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1702	PROPERTY LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To understand the concept and classification of property as well as principles governing transfer of immovable property and easements.
- To study about the concept of 'Property', the 'nature of property rights' and the general principles governing the transfer of property.
- To gain knowledge about the substantive law relating to particular transfers, such as sale, mortgage, lease, exchange, gift and actionable claims

UNIT 1 – INTRODUCTION AND DEFINITIONS**15Hrs.**

Jurisprudential Contours of Property – Possession and Ownership- Object and Scope of the Transfer of Property, 1882- Concept and Meaning and Definition of Transfer of Property- Subject Matter of Transfer- Persons Competent to Transfer- Kinds of Property - Tangible and Intangible Property - Intellectual Property- Copyright, Patents and Designs-Trademarks.

UNIT 2 – GENERAL PRINCIPLES OF TRANSFER**18Hrs.**

Concept of Property – Definition of transfer of property, kinds of interest, conditional transfer, Doctrine of Election ostensible owner, feeding the grant, improvement made by bonafide purchaser, Lis pendens, fraudulent transfer Doctrine of part performance and other general principles of transfer.

UNIT 3 – SPECIFIC TRANSFERS – TRANSFER OF ABSOLUTE INTEREST**18Hrs.**

Sale – Definition of Sale- Rights and Liabilities of Buyer and Seller- Marshalling by Subsequent Purchaser- Mortgage – Definition of Mortgage and Kinds of Mortgage - Rights and Liabilities of Mortgagor - Rights and Liabilities of Mortgagee - Doctrine of Subrogation- Charge - Lease – Definition of Lease- Rights and Liabilities of Lessor and Lessee - Different Modes of Determination of Lease - Gifts Exchanges and Actionable Claims.

UNIT 4 – EASEMENTS**17Hrs.**

Easements Generally – Imposition – Acquisition and Transfer of Easements – Incidence of Easements – Disturbance- Extinction- Suspension and Revival of Easements – Riparian Rights.

UNIT 5 – RECORDATION OF PROPERTY RIGHTS**17Hrs.**

Laws Relating to Registration of Documents Affecting Property Relations- Investigation of Title to the Property – Encumbrance Certificates- Law Relating to Stamp Duties – Effects of Non Payment of Stamp Duty – Inadmissibility and Impounding of Instruments.

Max. 85 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This Course makes the students to understand the basic legal concepts of Property.

CO2: It helps the students to have the deeper knowledge of transfer of property, the guiding principles regarding this aspect.

CO3: The students will understand the rights and duties of the seller and the buyer before and after sale.

CO4: Other than property students will have also an understanding about lease, gift, mortgage and other related concepts.

CO5: This Course will equip the students with the knowledge of all kinds of property related litigations.

CO6: This Course will equip the students with the required Professional Skills.

TEXT / REFERENCE BOOKS

- Poonam Pradhan Saxena, Property Law: Lexis NexisButterworthsWadhwa, Nagpur, 3rd Edition 2017
- Mulla, Transfer of Property Act, Lexis NexisButterworthsWadhwa, Nagpur, 11th ed., 2013.
- Subbarao, G. C.V. Law of Transfer of Property (Easement, Trust and Wills) 2 Vols. Lucknow: Eastern Book Co., 2002.
- Tripathi, G. P. Transfer of Property Act, 15th ed. Allahabad: Central Law Publications, 2006.
- J.D. Jain, Indian Easement Act, Allahabad Law Agency, 15th ed., Reprint 2011.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1503	LEGAL LANGUAGE AND LEGAL WRITING	L	T	P	Credit	Total Marks
		3	1	0	3	100

COURSE OBJECTIVES

- To introduce students to the nuances of legal language and writing.
- To familiarize students with the principles governing legal drafting.
- To equip students with the ability to draft simple legal documents.

UNIT 1 – INTRODUCTION**9 Hrs.**

Language- Importance of language-interplay between language and the law- legal language -significance of legal language.

UNIT 2 – LEGAL COMPREHENSION (SELECTED JUDGEMENTS)**9 Hrs.**

A study of several landmark decisions delivered by the Apex Court aimed at familiarising students with some fundamental and well established legal principles that guide the Indian legal system. Common Cause: Gain Kaur vs. State of Punjab. AIR 1996 SC 1257 - ParamanadaKatara vs. Union of India. AIR 1989 SC 2039 - Varadrajana vs. State of Madras AIR 1965 SC 94 - K.M. Nanawati vs. State of Maharashtra AIR 1962 SC 605 - People'S Union For Civil vs State Of Maharashtra AIR 1997 SC 568.

UNIT 3 – LEGAL MAXIMS AND ITS SIGNIFICANCE**9 Hrs.**

Actus non facit reum nisi mens sit rea (The act itself does not constitute guilt unless done with guilty intent) - Audi Alteram Partem (Non man shall be condemned unheard) - Delegatus non potest delegare (Delegate cannot further delegate) - Ignorantia facti excusat, ignorant juris non excusat (Ignorance of fact excuses, ignorance of law does not excuse) - Respondeat superior (Let the principal be held responsible) - Res ipsa loquitur (The thing itself speaks) - Ubi jus ibi remedium (Every right has a remedy)

UNIT 4 – USE OF WORDS AND PHRASES IN LEGAL WRITING**9 Hrs.**

Meaning and use of legal words and phrases in legal writing.

UNIT 5 – GENERAL PRINCIPLES GOVERNING LEGAL DRAFTING**9 Hrs.**

A study of the general rules and guidelines about legal manner Basic Legal Drafting - A practically oriented Unit intended to introduce students to elementary drafting-Academic Legal Writing: General principles of academic legal writing, through the study of eminent authors' works, as well as practical writing exercises-Research papers;

Max. 45 Hours**COURSE OUTCOMES:**

On completion of the course the student will be able to

CO1: This course will bring clarity about significance of language and the implications of legal language.

CO2: It helps the students to read judgments of courts and understand their facts and principles.

CO3: Equip them to explain the meanings of latin maxims.

CO4: It Enhance the students to understand the legal meanings of certain terms and know how they differ from their meanings outside law.

CO5: Makes the students to draft simple notices

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Broom's Legal Maxims. 11th ed. New Delhi: Universal Publishing Ltd., 2011.
2. B. M. Gandhi, Legal Language, Legal Writing and General English, Eastern Book Company, 2010.
3. Blacks' Law Dictionary, Universal Publishing Ltd., 2000.
4. C.R. Datta & M.N. Das, DeSouza's Conveyancing, Eastern Law House, 13th ed., 2004.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions to be answered out of 4 questions and each carries 15 marks

30 Marks

SEMESTER – IV

SAL1403	ENVIRONMENTAL LAW INCLUDING LAWS FOR THE PROTECTION OF WILD LIFE & OTHER LIVING CREATURES INCLUDING ANIMAL WELFARE	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To introduce the basic Concepts and principles in environmental law.
- To know about national and international environmental concerns, the bases for them and policy responses to them both within India and internationally.
- To analyse the legislative and judicial responses to environmental problems and the administrative system of environment related laws such as air, water, land, forest and hazardous substances laws.

UNIT – 1 INTRODUCTION**15Hrs.**

Meaning of Environment- Environmental Pollution and the Law- Kinds- Causes and Effects- Ancient Environmental Ethics Climate Change- Ozone Depletion and International Response- Earth Summit- International Environmental Law and the Sustainable Development- Indian Environmental Policies and Legal Responses.

UNIT -2 INTERNATIONAL ENVIRONMENTAL LAW**18Hrs.**

Environmental Policy - Stockholm Conference - Johannesburg Declaration (Rio) - Nairobi Declaration, 1982 - Brundtland Report, 1987 - Agenda 21 - Five Year Plans - Forest Policy - Conservation of Natural Resources and its Management - Constitutional Provisions on Environment and its Protection - Role of Judiciary on Environmental Issues - Polluter Pays Principle - Precautionary Principle - Public Trust Doctrine- Judicial Activism.

UNIT -3 POLLUTION CONTROL LAWS**18Hrs.**

Water (Prevention and Control of Pollution) Act, 1974 - Air (Prevention and Control of Pollution) Act, 1981 - Environment (Protection) Act, 1981 - Power of Central Government- Rules relating to Management of Hazardous, Plastic Waste, Bio-Medical Waste, E-Waste, Municipal Solid Wastes and Batteries - Noise Pollution Rules, 2000 - Environmental Impact Assessment - Coastal Regulation Zone Notification - Disaster Management Act, 2005

UNIT 4 – RESOURCE CONSERVATION AND ANIMAL WELFARE LAWS**17Hrs.**

Wildlife Protection Act, 1972 - Forest Conservation Act, 1980 - Prevention of Cruelty Against Animals - Problems in Legal Regulation of Medicinal Plants - The Plant Varieties Act - Wetland Conservation - Experimentation on Animals - Legal and Ethical Issues.

UNIT 5 – PREVENTION AND CONTROL OF POLLUTION**17Hrs.**

Common Law Remedies/Remedies under Law of Tort - Penal Remedies - Indian Penal Code and Code of Criminal Procedure - Remedies under Constitutional Law - Writs - Public Interest Litigation - Public Liability Insurance Act, 1991 - The National Green Tribunal Act, 2010.

Max. 85 Hours**COURSE OUTCOMES:**

- CO1:** This course creates the concepts of environment and pollution, and impresses them to protect the environment.
- CO2:** It creates knowledge about international environment protection regime.
- CO3:** It gives students a comprehensive idea of Water and Air Pollution Acts along with Environment Protection Act.
- CO4:** It enhance the students to conserve forest and protect wildlife.
- CO5:** It provides awareness about Environment among the students
- CO6:** This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Gurdip Singh, Environmental Law in India, MacMillan Publisher, 2005.
2. P. Leelakrishnan, Environmental Law Case Book, Lexis Nexis, 2nd edn, 2006.
3. S. C. Shastri, Environmental Law, Eastern Book Company, 4th edn, 2012.
4. Shyam Diwan & Armin Rosencranz, Environmental Law and Policy in India, Oxford University Press, 2nd Edition, 2001.
5. P. Leelakrishnan, Environmental Law in India, Lexis Nexis, 3rd edn, 2008

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.****PART A:** 6 Questions to be answered out of 8 questions and each question carries 5 Marks**30 Marks****PART B:** 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks**40 Marks****PART C:** 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks**30 Marks**

SAL1601	LABOUR LAW – II	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To gain knowledge about various social security legislations.
- To know about various social security legislations enacted for the labourers in India
- To understand the necessity of Minimum Wages Act.

UNIT 1 – LAW RELATING TO WAGES- I**15Hrs.**

MINIMUM WAGES ACT 1948: Wages- Concept of Wages- Minimum- Fair- Living Wages- Wage and Industrial Policies- Whitley Commission Recommendations- Timely Payment of Wages - Definitions- Types of Wages- Minimum Rates of Wages- Procedure for Fixing and Revising Minimum Wages - Authorized Deductions- Claims - Remedy. International Conventions.

UNIT 2 – LAW RELATING TO WAGES - II**18Hrs.**

THE PAYMENT OF WAGES ACT, 1936: Objects - salient features - application and definitions, Payment of wages and deductions from wages - Authorities under the Act and procedures - Penalty for offences under the Act.

UNIT 3 – PAYMENT OF BONUS ACT**18Hrs.**

Bonus- Concept- Right to Claim Bonus- Full Bench Formula- Bonus Commission- Payment of Bonus Act 1965- Application- Computation of Gross Profit- Available- Allocable Surplus- Eligibility of Bonus- Disqualification of Bonus- Set On-Set Off of Allocable Surplus- Minimum and Maximum Bonus- Recovery of Bonus.

UNIT 4 – SOCIAL SECURITY LEGISLATION- I**17Hrs.**

The Employee's Provident Funds and Miscellaneous Provisions Act, 1952: Scope - Coverage-Application and Definitions - Authorities, Their Powers and Functions- Contributions - Employees Provident Fund Scheme- Employees' Pension Scheme and Deposit Linked Insurance Scheme - Penalties.

Employees State Insurance Act, 1948 – Application - Benefits under the Act- Adjudication of Disputes and Claims – ESI Corporation.

UNIT 5 – SOCIAL SECURITY LEGISLATION – II**17Hrs.**

The Maternity Benefit Act, 1961: Object and Application- Eligibility and Maternity Benefits- Notice of Claim- Prohibition Against Dismissal- Wage Deduction- Powers and Duties of Inspectors.

Equal Remuneration Act, 1976: Application- Importance of the Act.

Payment of Gratuity Act, 1976: Background, Object and Definitions - Eligibility for Payment of Gratuity – Forfeiture- Exemption-Determination - Controlling Authority – Penalties.

Max. 85 Hours**COURSE OUTCOMES:**

On completion of the course the student will be able to

CO1: Students will be aware of practical procedures in social security legislations.

CO2: Provident Fund Act, Employees Insurance Act etc will give a new way of learning procedural aspects.

CO3: Payment Wages Act will show the present scenario of the workers to the students.

CO4: Awards and Settlements for the employees and the employer's liability will be learnt by the students in detailed manner.

CO5: This course will show them a different perspective of society and the much needed regulations and schemes to combat the needy.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. S.C. Srivastava, Industrial Relations and Labour Law, Vikas Publishing House, New Delhi, 6th edn., 2012.
2. S.C. Srivastava, Commentaries on the Factories Act, 1948, Universal Law Publishing House, Delhi, 2002.
3. H.L. Kumar, Workmen's Compensation Act, Universal Law Publishing, 2009.
4. A.M.Sharma, Industrial Relations And Labour Laws, Himalayan publishing House, 2nd edn 2013.
5. S. R. Samant, S. L. Dwivedi, Labour Laws, Labour Law Agency's Employer's Guide, 15th edn, 2015.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1801	LAW OF EVIDENCE	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To understand the significance of Law of Evidence.
- To acquaint the students with the rules of evidence in relation to relevancy of facts and proof.
- TO GAIN KNOWLEDGE ABOUT ORAL AND DOCUMENTARY EVIDENCE.

UNIT – 1 INTRODUCTION & CENTRAL CONCEPTIONS IN LAW OF EVIDENCE**15Hrs.**

The Main Features of the Indian Evidence Act – Applicability of Evidence Act – Facts- Definition and Distinction – Relevant Facts/Facts in Issue – Evidence-Oral and Documentary – Circumstantial Evidence and Direct Evidence – Presumption – “Proving” “not Proving” and “Disproving” – Witness – Appreciation of Evidence- Relevancy of Facts- Facts Connected with Facts in Issue- The Doctrine of Res Gestae – The Problems of Relevancy of “Otherwise” Irrelevant Facts – Facts Concerning Bodies and Mental State- Relevancy and Admissibility of Admissions- Privileged Admissions- Evidentiary Value of Admissions.

UNIT 2 – RELEVANCY AND ADMISSIBILITY OF CONFESSIONS**18 Hrs.**

General Principles Concerning Confession– Differences Between “admission” and “Confession” – non- admissibility of Confessions caused by “any inducement, threat or promise” – Inadmissibility of Confession made before a Police Officer – Admissibility of Custodial Confessions – Admissibility of “Information” received from accused person in custody- with special reference to discovery based on “joint statement” – Confession by co-accused – The problems with the judicial action based on a “retracted confession- Dying Declaration- The justification for relevance of dying declarations – The judicial standards for appreciation of evidentiary value- Section 32(1) with Reference to English Law- Other Statements by Persons who cannot be called as Witnesses– Conclusive Evidence. Relevance of Judgements- Admissibility of Judgments in civil and criminal matters – “Fraud” and “Collusion”.

Expert Testimony: (Secs. 45 to 50) Who is an expert? Types of expert evidence – Opinion on relationship especially proof of marriage – Judicial defences to expert testimony.

UNIT 3 – ORAL AND DOCUMENTARY EVIDENCE**18Hrs.**

General Principles concerning Oral Evidence, Primary / Secondary Evidence – General Principles concerning Documentary Evidence – General Principles regarding exclusion of Oral by Documentary Evidence, Public & Private Documents; Special Problems: Re-hearing Evidence.

UNIT 4 – BURDEN OF PROOF AND PRINCIPLE OF ESTOPPEL**17Hrs.**

General Principles- Conception of onus- Probans and Onus- Probandi – General and Special Exceptions to onus probandi – The justification of Presumption and Burden of Proof With Special Reference to Presumption to Legitimacy of Child and Presumption as to Dowry Death- Doctrine of Judicial Notice and Presumptions.

Estoppel: Scope- Its Rationale – Estoppel, Waiver and Presumption – Estoppel Distinguished From Res Judicata- Kinds of Estoppel- Equitable and Promissory Estoppel- Tenancy Estoppel.

UNIT 5 – WITNESS, EXAMINATION AND CROSS EXAMINATIONS**17Hrs.**

Competency to Testify – Privileged Communications- State Privilege – Professional Privilege – Approval Testimony - General Principles of Examination and Cross Examination – Leading Questions – Approver’s Testimony- Hostile Witnesses- Lawful Questions in Cross-examination – Reexamination – Compulsion to answer questions put to Witness– Impeaching of the Standing or Credit of Witness- Questions for Corroboration- Improper Admission of Evidence.

Max. 85 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: Analyze and define the concept and general nature of evidence, and illustrate the different types of evidence.

CO2: Determine and analyze the standard of proof and burden of proof in civil and criminal cases, and specify types of presumptions.

CO3: Analyze the rule relating to relevance of evidence.

CO4: Analyze and evaluate the rules governing examination in chief, cross examination and re-examination, and establish the procedures in the conduct of a civil or criminal trial.

CO5: Determine the rules relating to competence and compellability of witnesses in relation to case study material.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Vepa Sarathi, Law of Evidence, Eastern Book Company, 5th Ed., 2002.
2. Dr. Satish Chandra, Indian Evidence Act, Allahabad Law Agency, 2007.
3. Ratanlal & Dhirajlal, Law of Evidence (1994), Lexis Nexis Wadhwa, Nagpur, 2011.
4. Avtar Singh, Principles of Law of Evidence, Central Law Publications, 2013.
5. Sarkar, Law of Evidence, Lexis Nexis Wadhwa, Nagpur, 18th Ed., Reprint 2014.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks: 100

Exam Duration: 3 Hrs.

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1802	ADMINISTRATIVE LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To gain knowledge about delegated legislation.
- To know the importance of principles of natural justice.
- To understand the basic principles that govern review of administrative action by courts and tribunal.

UNIT 1 – INTRODUCTION**15Hrs.**

Evolution, Nature and Scope of Administrative Law – Laissez- faire state, social welfare state and modern state - Relationship Between Constitutional Law and Administrative Law- Droit Administratif- Rule of Law – Doctrine of Separation of Powers - Classification of Functions.

UNIT 2 – LEGISLATIVE FUNCTIONS**18Hrs.**

Meaning, Nature, Origin, Development and causes of growth of delegated legislation-Necessity and Constitutionality - Forms and requirements - Control: Legislative, Judicial, Procedural - Sub-delegation of legislative power, conditional legislation-Docctrine of Excessive Delegation.

UNIT 3 – JUDICIAL FUNCTIONS OF ADMINISTRATION**18Hrs.**

Principles of Natural Justice: Doctrine of Bias- Audi Alter Partem -Need for devolution of adjudicatory authority on administration- Writs- Nature of Tribunal: Constitution, Power, Procedures, Rules of evidence-Administrative Tribunals-Rules of evidence-no evidence, some evidence and substantial evidence-Institutional Decisions.

UNIT 4 – ADMINISTRATIVE DISCRETION**17Hrs.**

Need for administrative discretion- Limitations - Mala fide exercise, irrelevant considerations & non-exercise of discretionary power- Judicial review of administrative discretion-Remedies- Informal method of settlement of disputes and Grievance Redressal procedures-Conciliation and mediation Public inquiries & Commissions of enquiry,, Right to Information Act

UNIT 5 – OMBUDSMAN, LOKPAL, LOKAYUKTA AND CENTRAL VIGILANCE COMMISSION**17Hrs.**

Meaning, Object, Main characteristics, Need and Utility-Origin and development of the Institution-Ombudsman in New Zealand-Ombudsman in England (Parliamentary Commissioner) - Ombudsman in India –Lokpal-Lokayukta in States-Central Vigilance Commission

Max. 85 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: Particular emphasis upon the advanced principles of administrative law which helps the students to look beyond traditional concepts.

CO2: Students will be taught to have a practical approach towards administrative law principles to complex legal problems.

CO3: This course will help them understand both legal and political controls on governmental bodies and their decisions.

CO4: Will be able to critically analyze the various control mechanisms on public power.

CO5: Students will have a clear understanding about administrative mechanism in current scenario.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Massey, I.P., Administrative Law, Eastern Book Company, Lucknow, 5th Edition, 2008.
2. Griffith and Street, Principles of Administrative Law, London, 3rd Edition, 2006.
3. Kesari, U.P.D, Lectures on Administrative Law, Central Law Agency, 15th Edition, Allahabad, 2005.
4. Takwani, Thakker, C.K., Lectures on Administrative Law, Eastern Book Company, 3rd Edition, Lucknow, 2003.
5. M P Jain and S N Jain's Principles of Administrative Law, Revised by Amita Dhanda, Lexis Nexis Wadhwa, Nagpur, 7th Edition, 2017.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SBA1403	DISASTER MANAGEMENT	L	T	P	Credit	Total Marks
		3	1	0	3	100

COURSE OBJECTIVES

- To introduce the basic Concepts in disaster management.
- To create awareness towards natural and man-made disasters, disaster preparedness and disaster management.
- To have an insight into the problem arising out of disasters and inadequacies of the court process.

UNIT 1 – INTRODUCTION TO DISASTERS**9 Hrs.**

Natural resources and its importance - understanding on fragile eco-system - characteristics and types of Disasters, Geological and Mountain Area Disasters: Earthquakes, Volcanic eruption, landslides - Wind and Water Related Natural Disaster: Floods, Droughts, Cyclones, And Tsunami - Man Made Disasters: Forest fires, Nuclear, Biological and Chemical disaster - Causes and effects - Disaster Profile of India - Disaster Management cycle.

UNIT 2 – DISASTER PREPAREDNESS**9 Hrs.**

Disaster management, mitigation and preparedness: Disaster Preparedness for People and Infrastructure, Community based Disaster Preparedness Plan - Roles & Responsibilities of Different Agencies and Government: Education, Communication & Training, Central, State, District and local administration, Armed Forces, Police, Para Military Forces, International Agencies, and NGO's - Disaster Mitigation: Strategies, Emerging Trends, Mitigation management and Role of Team and Coordination.

UNIT 3 – REHABILITATION, RECONSTRUCTION & RECOVERY**9 Hrs.**

Damage assessment – Development of Physical and Economic Infrastructure - Nature of Damage to Houses and Infrastructure due to Disasters - Funding Arrangements for Reconstruction - Monitoring and Evaluation of Rehabilitation Work: Training, Rescue and planning the rescue activities and rehabilitations- Role of Government and NGO's - Participative Rehabilitation Process: Case Studies

UNIT 4 – DISASTER RESPONSE AND DISASTER MANAGEMENT**9 Hrs.**

Disaster Response Plan: Communication, Participation and Activation of Emergency Preparedness Plans, Search, Rescue, Evacuation and other logistic management - Human Behavior and Response Management: Psychological Response and Psychological Rehabilitation, Trauma and Stress Management, rumor and Panic Management, Medical and Health Response to Different Disasters - Relief Measures: Minimum Standard of Relief, essential components of Relief Management, and funding.

UNIT 5 – RISK ASSESSMENT AND VULNERABILITY ANALYSIS**9 Hrs.**

Hazard, Risk and Vulnerability: Concept and Relationship: Disaster Risk Reduction, People Participation in Risk Assessment - Vulnerability Analysis, Vulnerability Identification - Vulnerability profile of India - Strategies for Survival - Social Infrastructure for Vulnerability Reduction.

Max. 45 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This course helps the students to develop an understanding about the key concepts, definitions key perspectives of All Hazards Emergency Management.

CO2: This course provides a basic conceptual understanding of disasters and its relationships with development.

CO3: It helps the students to understand about the legal provision and role of NGO during the disaster period.

CO4: Enhance the students To understand Medical and Psycho-Social Response to Disasters.

CO5: It Develops a basic understanding of Prevention, Mitigation, Preparedness, Response and Recovery.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Bryant Edwards, "Natural Hazards", Cambridge University Press, U.K, 2005.
2. Carter, W. Nick, "Disaster Management, Asian Development Bank", Manila, 1991.
3. Government of India, "Vulnerability Atlas of India", New Delhi, 1997.
4. Sahni, Pardeep et.al. (eds.), "Disaster Mitigation Experiences and Reflections", Prentice Hall of India, New Delhi, 2002.
5. Sahni, Pardeep and Ariyabandu, Madhavi Malalgoda, 2012: "Disaster risk reduction in South Asia", Phi learning pvt. Ltd.-

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks:100

Exam Duration: 3 Hrs.

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions to be answered out of 4 questions and each carries 15 marks

30 Marks

SEMESTER – V

SAL1901	CIVIL PROCEDURE CODE AND LIMITATION ACT	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To make the students conversant with the basic terminology and with the jurisdiction of civil courts.
- To equip students with the knowledge of different stages in a civil proceeding and the procedure at each of these stages.
- To learn the execution proceedings, remedies available to a party aggrieved by the order of a court, equip students with the knowledge of the important provisions of Limitation Act.

UNIT 1 – SUITS AND PLEADINGS**18 Hrs.**

Introduction Salient features of the Code, 1908 - Definitions - Jurisdiction of Civil Court - Place of Suing – Institution of Suits – Presentation of Complaint - Parties to the suit-principles of res subjudice and res judicata. PLEADINGS: Complaint - Written Statement - Service of Summons - Appearance and Non Appearance of Parties - Set off and counter claim: distinction - Discovery, Inspection and Production of Documents - Admission - Production, Impounding and Returning of Documents-transfer of suits decree and judgment - Remand - Restitution - Appeals: from original decree - from appellate decree - from orders - Appeal to the Supreme Court - Reference - Review - Revision.

UNIT 2 – SUITS IN PARTICULAR**18 Hrs.**

Suits by and against government and public officer – Suits by indigent person – suits by or against minors and lunatics, aliens and foreign rulers, soldiers, corporation, Firms, trustees, executors and administrators - suits relating to family matters, mortgages, public nuisance and public charities- interpleader suits - summary procedure.

UNIT 3 – EXECUTION**18 Hrs.**

General principles - courts by which decree may be executed - payment under decree - application for execution - mode of execution - stay of execution - questions to be determined by executing court - arrest and detention - attachment of property sale and delivery of property -distribution of assets.

UNIT 4 – CIVIL PROCEDURE CODE RECENT AMENDMENTS**18 Hrs.**

Code of Civil Procedure (Amendment) Act, 2002: Salient features – Major Changes, Civil Procedure Amendment Rules, 2013, Civil Procedure (Amendment) Act, 2016.

UNIT 5 – LIMITATION ACT**18 Hrs.**

Definitions - Limitation of Suits - Appeals - Computation of Period of Limitation - Legal disabilities.

Max. 90 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This course is designed to equip students with the knowledge of different stages in a civil proceeding and the procedure at each of these stages.

CO2: Drafting exercises will form a major part of the course which helps the students to a greater extent.

CO3: Will introduce students to the execution proceedings which is happening in civil courts.

CO4: Will acquaint the students with remedies available to a party aggrieved by the order of a court.

CO5: This course also teaches students about the importance of Limitation Act and its provisions.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. C.K.Takwani, Civil Procedure Code, 11th ed., Eastern Book Company, 2013.
2. MP Tandon, Code of Civil Procedure, Allahabad Law Agency, 2011.
3. Mulla, The Code of Civil Procedure, Lexis Nexis Butterworths Publications, 17th edn, 2007.
4. M. P. Jain, Code of Civil Procedure, 3rd ed., Lexis Nexis, 2011.
5. Sarkar, Code of Civil Procedure, 11th ed., Lexis Nexis, 2013.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1902	LAW OF CRIMES – II (CRIMINAL PROCEDURE CODE, JUVENILE JUSTICE ACT & PROBATION OF OFFENDERS ACT)	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To drive the students towards understanding the pre-trial, trial and the subsequent process in criminal law.
- To acquaint the students with the practical approaches and procedures followed in the court.
- To understand the reasons for enactment of Juvenile Justice and Probation of Offenders Act.

UNIT 1 – DEFINITIONS AND AUTHORITIES UNDER THE CODE**18Hrs.**

Important Definitions Under the Code - Constitution of Different Criminal Courts and Officers - Power of Courts - Distinction Between Cognizable and Non- Cognizable, Summons and Warrant, Bailable and Non-Bailable Offences - Compoundable and Non-Compoundable Offences.

UNIT 2 – PRE - TRIAL PROCEEDINGS**18Hrs.**

Stages of Investigation - process compelling for the presence of the presence of accused for investigation and trial - Arrest- procedure for arrest - rights of arrested persons- consequences of non - compliance of arrest procedures – Search and Seizure – process of investigation by police – investigation of unnatural and suspicious death – Local jurisdiction of the Courts in Inquires and Trials – Cognizance of offence and commencement of proceedings – Bail procedures –types of bail - Other Provisions.

UNIT 3 – FAIR TRIAL**18Hrs.**

Principal features of fair trial – Charge – Some common features regarding trial – Disposal of Criminal cases without full Trial – Preliminary plea to bar trial – Trial before a Court of Session – Trial of warrant cases by Magistrates – Trial summons cases and Summary Trial - Rules of Evidence applicable.

UNIT 4 – PROCEDURES FOR APPEAL**18Hrs.**

Types of Appeals - Reference and Transfer of Criminal Cases - Execution, Suspension, Remission and Commutation of Sentences - Execution of Death penalty and Imprisonment - Execution of Sentence of fine - Preventive and Precautionary Measures for keeping peace and good behaviour.

UNIT 5 – JUVENILE JUSTICE ACT & PROBATION OF OFFENDERS ACT**18Hrs.**

Juvenile Delinquency - Nature and Magnitude- Juvenile Court System - Treatment and Rehabilitation of Juveniles - Legislative and Judicial Protection of Juvenile Offender- Juvenile Justice Act, 2000- Recent Amendments.

Probation of Offenders Act - Mechanism- Problems and Prospects of Probation - Duties of Probation Officers - Report of the Probation Officers - Conditions and Cancellation of probation - Judicial Approach.

Max. 90 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This course introduces students to the basic aspects of criminal procedure and understanding the various stages in trial proceedings.

CO2: This course is designed to impart knowledge about various aspects of investigation and related aspects.

CO3: The Proceedings related to Bail will gives procedural knowledge to the students.

CO4: Provisions related to accused also makes the student to think in different perspective rather than traditional way of approach.

CO5: Law relating to Juvenile and the Amendments will helps the students to compare with present scenario.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. K N Chandrasekharan Pillai, R V Kelkar's Criminal Procedure, Eastern Book Company, Lucknow, 6th Ed. 2014.
2. Ratanlal&Dhirajlal, The Code of Criminal Procedure - Covering The Criminal Law (Amendment) Act, 2013, Lexis Nexis Wadhwa, Nagpur 19th Ed, 2013.
3. Woodroffe: Commentaries on Code of Criminal Procedure, 2 Vols. Law Publishers India Pvt. Ltd., 3rd Ed., Reprint 2014.
4. S C Sarkar, The Law of Criminal Procedure, 2nd (Reprint), 2010, Lexis NexisWadhwa, Nagpur, 11th ed., 2015.
5. Principles of Criminal Law: Srivastava, Eastern Book Company, 2013

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.****PART A:** 6 Questions to be answered out of 8 questions and each question carries 5 Marks**30 Marks****PART B:** 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks **40 Marks****PART C:** 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks**30 Marks**

SAL1903	PRINCIPLES OF TAXATION LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To give an insight about National and International Taxation Laws to students.
- To impart the knowledge of taxing statutes in and across the nations.
- To understand the difference between tax and fee.

UNIT 1 – CONCEPT OF TAX**18Hrs.**

Nature and Characteristics of Taxes - Distinction between Tax and Fee, Tax and Cess - Direct and Indirect Taxes - Tax Evasion and Tax Avoidance – Scope of Taxing Powers of Parliament, State Legislatures and Local Bodies - Canons of Taxation - Applicability of doctrines under the constitution to taxation laws - interpretation of tax laws

UNIT 2 – THE INDIAN INCOME TAX ACT, 1961**18Hrs.**

Concepts: income, agricultural income, casual income: Residential status - Previous year, Assessment year, Income - Received - Arising - Exemption from taxation, Taxability under 'specific heads': Income from salaries, Income from house property, Income from business or profession, Income from 'capital gains', Income from other sources - Clubbing of income - Treatment of losses - set-off- carry forward of loss - Procedure for assessment: Deduction - Assessment of special class. WEALTH TAX ACT: Definition of person, meaning of wealth, net wealth - exempted wealth - net wealth - valuation date - procedure for assessment.

UNIT 3 – INCOME TAX AUTHORITIES**18Hrs.**

Their Appointment - Jurisdiction - Powers and Functions - Provisions Relating to Collection and Recovery of Tax - Refund of Tax, Appeal and Revision Provisions, Offences and Penalties - Wealth Tax - Charge of Wealth Tax-Assets - Deemed Assets - and Assets Exempted from Tax - Wealth Tax Authorities - Offences and Penalties.

UNIT 4 – CENTRAL SALES TAX AND EXCISE LAWS**18Hrs.**

Nature - Scope and Basis of Levy of Central Excise Duty - Meaning of Goods - Manufacture and Manufacturer - Classification and Valuation of Goods - Duty Payment and Exemption Provisions - Provisions and Procedure Dealing with Registration and Clearance of Goods - An Overview of Set- off of Duty Scheme - Appointment of Customs Officers - Ports - Warehouses - Nature and Restrictions on Exports and Imports - Registration of Dealers and Determination of Taxable Turnover- Service Tax – Main Features of Service Tax - VAT - Recent Amendments

UNIT 5 – GENERAL SALES TAX - GST AND INTERNATIONAL TAX LAWS**18Hrs.**

Structure of GST (SGST, CGST, UTGST & IGST) - GST Council - State Mechanism - Registration - Levy and collection of GST - Valuation for GST- Valuation rules - Exemption from GST: Small supplies and Composition Scheme - Classification of Goods and Services: Composite and Mixed Supplies. INTERNATIONAL TAX LAW: International Tax Agreements and Treaties - Double Taxation - UN Model Convention on Double Taxation - OECD – Guidelines.

Max. 90 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This course provides the fundamental notions of the Income Tax Act, 1961 to the students and also its underlying concepts.

CO2: Helps the students with the knowledge of tax treatment under various heads of income.

CO3: Will give a detailed outlook on the aspect of the computation of income for the purpose of taxing and determination of tax liability.

CO4: This course will give a better understanding about Central Sales Tax and Excise duty.

CO5: Will help the students to have clarity about GST and International Taxation treaties and guidelines.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Vinod Singhania & Kapil Singhania, Direct Taxes Law and Practice, Taxmann, 2014.
2. Chaturvedi & Pithisaria, Income Tax Act with Relevant Tax Allied Acts, Lexis Nexis, 2013.
3. Gupta, S.S., GST- How to meet your obligations (April 2017), Taxmann Publications.
4. Dr. Girish Ahuja and Dr. Ravi Gupta, Systematic Approach to Taxation, Bharat 32nd Edition, 2014-2015.
5. J.K. Mittal, Law, Practice and Service of Service tax Law, Lexis Nexis 25th Edition, 2013

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks:100

Exam Duration: 3 Hrs.

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1904	COMPANY LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To understand the formation, management and other activities of the companies.
- To learn the importance of memorandum of association and articles of association.
- To study the roles and responsibilities of directors.

UNIT 1 – INTRODUCTION**18Hrs.**

Historical development of concept of corporate law in India - Company – Definition, Meaning, Nature and its Characteristics -Nature and Forms of Business - Company vis-à-vis other Forms of Business -Types of Companies-Public and private sector- Concept of Corporate Personality, Corporate Veil, Limited Liability and Citizenship- Companies Act and its amendments.

UNIT 2 – INCORPORATION AND ITS CONSEQUENCES**18Hrs.**

Promoters – Meaning, Position, Duties, Rights, Responsibilities and Liabilities-Formation of Companies – Procedural Aspects-Memorandum of Association & Articles of Association and their Alteration -Contracts and Conversion of Companies- Commencement of Business - Doctrine of Ultra-Vires, Constructive Notice, Indoor Management, Alter Ego.

UNIT 3 – FINANCIAL STRUCTURE**18Hrs.**

Sources of capital- Shares – Application and allotment of shares- members and shareholders shares and share capital- Alteration and Reduction of Share Capital- Forfeiture and Surrender -Lien on shares- Prospectus– debentures, charges and debenture holder, dividends, borrowings, lending, investments, contracts. Floating Charge- Preferential Payments- Unclaimed Dividends.

UNIT 4 – MANAGEMENT AND CONTROL OF COMPANIES**18Hrs.**

Directors– Types-Appointment/Reappointment- Qualification- Vacation of Office- Retirement- Resignation and Removal - Role and Responsibilities of Directors - Powers and Duties - Loans to Directors - Remuneration of Directors - Meetings– Kinds of Meetings; Law, Practice and Procedure-Voting -including voting through Electronic Means- Sole Selling and Buying Agents – Investments, loans and Deposit- Inspection and Investigation.

UNIT 5 – RECONSTRUCTION, AMALGAMATION AND WINDING UP**18Hrs.**

Reconstruction, rehabilitation and amalgamation: Concept-jurisdiction and powers of courts& NCLT-vesting of rights and transfer of obligations-take over and acquisition of minority rights-Winding up - Grounds- Who Can Apply- Appointment of Liquidators -Procedure under different modes-Voluntary winding up-compulsory winding up- Winding Up of Unregistered Company.

Max. 90 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This course develops the cognitive skills to analyze evaluates and synthesize information about corporations, corporate officers, shareholders and creditors so as to identify and resolve legal and business related issues.

CO2: This course helps student to develop critical thinking about Corporate Law.

CO3: Understand the consequences of incorporation including the concept of corporate personality.

CO4: Revolves around financial structure, management and control of company.

CO5: This course impart the students, the corporate management, control, possible abuses, the remedies and government regulation of corporate business and winding up of companies.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. ICSI, Companies Act 2013, Institute of Company Secretary of India, 2013.
2. Ramaiya, Ramaiya Guide to the Companies Act, Lexis Nexis, ButterworthsWadhwa, Nagpur, 18th ed., 2014.
3. Avtar Singh, Company Law, Eastern Book Company, Lucknow, 16th ed., 2015.
4. Karn Gupta, Company Law, Lexis Nexis India, 1st ed., 2013.
5. LalitKakkar, Companies Act, 2013 Along With New Rules & Forms, Young Global, 4th ed., 2015.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks **40 Marks**

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks **30 Marks**

SAL1905	DRAFTING, PLEADING AND CONVEYANCE (CLINICAL COURSE-I)	L	T	P	Credit	Total Marks
		4	3	0	5	100

COURSE OBJECTIVES

- To apply general principles of drafting and conveyancing and use effective writing techniques to draft different types of legal documents.
- To draft different types of Deeds including deed of sale of land, mortgage deeds, licence deeds, lease deeds, assignment deeds, trust deeds, partnership deeds and power of attorney deeds
- To learn Drafting of different types of contracts including commercial agreements, professional services agreement.

UNIT 1 – FUNDAMENTAL RULES OF PLEADINGS**18Hrs.**

Introduction - Fundamental Rules of Pleadings- Plaint Structure - Parties to Suit- Written Statement - Appeals – Reference- Review and Revision- Execution.

UNIT 2 – CIVIL PLEADINGS**18Hrs.**

Plaint - Written statement – IA – OP – Affidavit - Execution Petition - Memorandum of Appeal and Revision Petition - Petition for Dissolution of Marriage Under the Hindu Marriage Act, 1955 - Petition for Eviction Under the Rent Control Act- Application for Temporary Injunction Under the Code of Civil Procedure, 1908- Caveat Under the Code of Civil Procedure, 1908

UNIT 3 – GENERAL PRINCIPLES OF CRIMINAL PLEADINGS**18Hrs.**

Application for Maintenance Under Section 125 of the Code of Criminal Procedure, 1973 - Application for Anticipatory Bail and Bail - Criminal Miscellaneous Petition - Application for Execution of a Decree - Criminal Complaint - Appeal/Complaint - Appeal/Revision in Criminal Cases - Special Leave Petition Under Article 136 of the Constitution of India- Memorandum of Appeal and Revision.

UNIT 4 – CONVEYANCING**18Hrs.**

Components of a Deed - Forms of Deeds and Notices – Promissory Note- Will and Codicil- Trust Deed- Gift Deed- Agreement to Sell- Sale Deed - Indemnity Bond - Lease Deed - General Power of Attorney - Special Power of Attorney - Partnership Deed - Deed for Dissolution of Partnership - Mortgage Deed- Notice to the Tenant - Notice Under Section 80 Code of Civil Procedure, 1908 - Reply to the Notice.

UNIT 5 – PUBLIC INTEREST LITIGATION PETITION**18Hrs.**

Drafting of Writ Petition and Public Interest Litigation Petition under Articles 32 and 226 of Indian Constitution – Concurrent Jurisdiction of the High Court and Supreme Court.

Max. 90 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This course will enable the students to know more about the fundamental principles of drafting which are very crucial.

CO2: Application of the said rules with respect to pleadings in civil matters.

CO3: To achieve the above with reference to criminal matters.

CO4: It provides the principles of conveyance with reference to different deeds.

CO5: It teaches the students the skills of scrutiny of reports and the rules of Judgment Writing.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

- G.C. Mogha, Indian Conveyancer, Dwivedi Law, Agency 14th edn, 2009.
- R.N. Chaturvedi, Conveyancing and Drafting and Legal Professional Ethics, Eastern Book Company, 7th edn, 2011.
- Rathwade, Rajaram S. Legal Drafting, Pune: Hind Law House, 2010.
- G.C. Mogha & S. N. Dhingra, Mogha's, Law of Pleading in India with Precedents, Eastern Law House, 18th edn, 2013.
- CA Virendra Pamecha, Public Interest Litigation (PIL) & How to File A Writ Petition, Jain Book Agency, 1st edn, 2014.
-

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SEMESTER – VI

SAL1001	PROFESSIONAL ETHICS AND PROFESSIONAL ACCOUNTING (CLINICAL COURSE – II)	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVES

- To imbue students with high values forming the basis of the profession so that they can live up to those standards in their professional life.
- To teach responsibilities and moral standards to be followed in the profession.
- To know the salient features of Advocates Act, 1961.

UNIT 1 – THE LEGAL PROFESSION AND ITS RESPONSIBILITIES**18 Hrs.**

Development of Legal Profession in India- Privileges and Rights of Legal Profession- Distinction from Other Profession- Admission and Enrolment of Advocates- Conduct in Court- Professional Conduct in General - Privileges of a Lawyer- Salient Features of the Advocates Act, 1961.

UNIT 2 – DUTIES TOWARDS THE COURT AND SOCIETY**18 Hrs.**

Duty to the Court - Duty to the Profession - Duty to the Opponent - Duty to the Client - Duty to the Self- Duty to the Public and the State- Duties to Render Legal Aid- Difference Between Duty and Interest.

UNIT 3 – CONTEMPT OF COURT**18 Hrs.**

Contempt of Court Act, 1972 - Selected Major Judgments of the Supreme Court (i) Re: Ajay Kumar Pandey, A.I.R. 1997 SC 260 (ii) SC bar Association vs U.O.I, AIR 1998 SC 1895, (iii) Nirmaljit Kaur vs State of Punjab, AIR 2006 SC 605 (iv) ZahiraHabidullah Sheikh vs State of Gujarat, AIR 2006 SC 1367 (v) Rajendra Sail vs M.P High Court Bar Association, AIR 2005 SC 2473. (vi) P.J. Ratnam vs D. Kanikaram, AIR 1964 SC 244. (vii) N. B. Mirzan v. The Disciplinary Committee of Bar Council of Maharashtra and Another, AIR 1972 SC 46- Bar Council of Maharashtra vs M. V. Dabholkar etc. AIR 1976 SC 242, (viii) V. C. Rangadurai vs D. Gopalan & Others, AIR 1979 SC 201, ix) Supreme Court Bar Association vs Union of India, AIR 1998 SC 1895. X) Chandra ShekharSoni vs. Bar Council of Rajasthan & Others, AIR 1983 SC 1012.

UNIT 4 – PROFESSIONAL AND OTHER MISCONDUCT**18 Hrs.**

Selected Opinions of the Disciplinary Committees of Bar Councils on the Subjects- Powers of the Disciplinary Committee of the Bar Council of India - Procedure of Complaints Against Advocates - Punishments for Misconduct and Remedies Against Order of Punishment - Judgements related to Professional Misconduct- (i) Ex. Capt. Harish Uppal v. Union of India A.I.R. 2003 S.C 739 (ii) P.D. Gupta v. Ram Murthi AIR 1998 SC 283 (iii) Shambhu Ram Yadav- v. Hanuman Das Khatri AIR 2001SC 2509 (iv) Harish Chandra Tiwari v. Baiju AIR 2002 SC 548 (v) Bar Council of Andhra Pradesh v. KurapatiSatyanarayana AIR 2003 SC175.

UNIT 5 – ACCOUNTANCY FOR LAWYERS**18 Hrs.**

Need for Maintenance of Accounts - Books of Accounts that need to be Maintained - Cash Book, Journal and Ledger - Aspects of Book Keeping - Meaning- Object- Journal- Double Entry System - Journal Especially with Reference to Client's Accounts - Ledger- Trial Balance and Final Accounts - Balance Sheet - Standard Costing.

Max. 90 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: The students will be able to understand the historical evolution of the legal profession as well as the various codes of conduct and ethical norms for the advocates.

CO2: The standards expected in the profession will be well known to the students.

CO3: This course explains the contempt law in India and the classifications of contempt, the punishments and remedies which helps them in practical aspects.

CO4: To acquaint the students with general principles of accounting.

CO5: Helps the students to have a clear maintenance of records which plays a significant part in this profession

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. J.P.S. Sirohi, Professional Ethics, Accountancy for Lawyers and Bench Bar Relations, Allahabad Law Agency, 2015.
2. Mallick, Advocates Act, Professional Ethics/Bench & Bar Relationship, Indian Law Books, 2007.
3. AiyarRamanath, Legal Professional /Ethics, Indian Law Books.3rd edn, 2003.
4. Subramanyam, Advocates Act, Commentaries on Advocates Act with Bar Council Rules (Central & States) with Professional Ethics & Allied Laws, Law Publishers India, 3rd edn, 2010.
5. P. RamanathaAiyar, Legal & Professional Ethics – Duties & Privileges of a Lawyer, Lexis NexisButterworths, Wadhwa, Nagpur, 3rd edn 2003, reprint 2009.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.****PART A:** 6 Questions to be answered out of 8 questions and each question carries 5 Marks**30 Marks****PART B:** 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks **40 Marks****PART C:** 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks**30 Marks**

SAL1002	ARBITRATION, CONCILIATION & ALTERNATIVE DISPUTE RESOLUTION SYSTEM (CLINICAL COURSE – III)	L	T	P	Credit	Total Marks
		3	3	3	6	100

COURSE OBJECTIVES

- To gain knowledge about different methods of dispute resolution.
- To understand the meaning and general principles of arbitration.
- To study about the roles and responsibilities of Conciliator

UNIT 1 – INTRODUCTION**18 Hrs.**

Meaning- Various Procedures of ADR- General- Different Methods of Dispute Resolution- Inquisitorial Method- Adversarial Method- Other Methods – Both Formal and Informal Advantages and Disadvantages of Above Methods- Need for ADRs- International Commitments- Domestic Needs- Suitability of ADRs to Particular Types of Disputes- Civil Procedure Code and ADRs- International Mechanism in ADR

UNIT 2 – ARBITRATION**18 Hrs.**

Arbitration and Conciliation Act, 1996 - Meaning of Arbitration - Attributes of Arbitration- General Principles of Arbitration- Different Kinds of Arbitration- Qualities and Qualifications of an Arbitrator- Arbitration Agreement and its Drafting- Appointment of Arbitrator- Principal Steps in Arbitration- Arbitral Award - Writing Arbitration Award- Recent Amendments

UNIT 3 – CONCILIATION**18 Hrs.**

Meaning - Different Kinds of Conciliation: Facilitative, Evaluative, Court: Annexed, Voluntary and Compulsory- Qualities of a Conciliator- Duties of a Conciliator- Role of a Conciliator- Confidentiality and Neutrality- Stages of Conciliation- Procedure- Conciliation Under Statutes: Industrial Disputes Act, 1947 - Family Courts Act, 1984 - Hindu Marriage Act, 1955- Arbitration and Conciliation Act, 1996- Writing the Award- Ethical Issues in Conciliation.

UNIT 4 – NEGOTIATION**18 Hrs.**

Meaning – Theory of Negotiation- Different Styles of Negotiation - Different Approaches to Negotiation - Phases of Negotiation – Positional Bargaining- Interest Based Bargaining or Principled Negotiation- Preparation for Negotiation- Qualities of a Negotiator – Collaborative Communication Skills- Negotiating Skills- Power to Negotiate.

UNIT 5 – MEDIATION**18 Hrs.**

Meaning - Qualities of Mediator - Role of Mediator - Essential Characteristics of the Mediation Process: Voluntary, Collaborative, Controlled, Confidential, Informal, Impartial and Neutral, Self-Responsible - Code of Conduct for Mediators- Ethical Issues in Mediation- Mediation in India, Institutions, Their Role – Recent Amendments – International Instruments and their Implementation

Max. 90 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This Course will give a brief idea about growing new area of legislation and its scope in present scenario.

CO2: Helps the students in understanding the Alternate Dispute Settlement Machinery, its significance and the ways to implement the procedures.

CO3: Enhances practical based skills in students.

CO4: Provides the students a brief overview about the implementation and regulation mechanisms.

CO5: This course also gives an understanding about the International mechanism in ADR and its functions which can be adopted in India

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Avtar Singh, Law of Arbitration and Conciliation, Eastern Book Company, 10th edn, 2013.
2. J. G. Merrills, International Dispute Settlement. U.K: Cambridge University Press, 5th edn, 2005.
3. G.K. Kwatra, The Arbitration and Conciliation Law of India, Universal Law Publications, Delhi, 2000.
4. World Trade Organization, The WTO Dispute Settlement Procedures: A Collection Of The Relevant Legal Texts, 2nd Ed., (Cambridge, UK: Cambridge Univ Press, 2002).
5. Markanda. P.C, Law Relating to Arbitration and Conciliation, Lexis Nexis Butterworths&Wadhwa, Nagpur, 7th edn, 2009.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1003	MOOT COURT EXERCISE & INTERNSHIP (CLINICAL COURSE- IV)	L	T	P	Credit	Total Marks
		3	3	3	6	100

COURSE OBJECTIVES

- To understand the practical aspects of the profession by presenting in moot courts by sending them to courts for a personal experience of the functioning of courts.
- To obtain a first-hand information of the practicalities of the working of courts.
- To learn research, oratorical and articulation skills required of a lawyer and also to get a practical exposure to the techniques of client interviewing and the substantive as well as procedural steps involved in preparation of a brief by lawyers.

UNIT 1 – OBJECTIVE OF MOOT COURT**18 Hrs.**

Introduction - Scope and Importance - A Brief Idea on Moot Court- The Benefits of attending Moot Court Competitions - General Knowledge on the Different Aspects of Law- Sources of Law - Statute, Precedents, Customs, Treaties, Logic and Reasoning - Hierarchy of Courts -Different Kinds of Courts.

UNIT 2 – RESEARCH LIBRARY**18 Hrs.**

Research - Research for Cases – Research for different Journals and Publications - Online Research. **MODE OF CITATIONS** - The Blue Book Citations - Reading and Understanding Case laws.

UNIT 3 – MEMORIAL**18 Hrs.**

Approach towards a Moot Problem - Identifying the Issues - Using Different Resource Authorities to Substantiate the Arguments Framed for Both Sides - Quoting Cases and Other Authorities in the Memorial - Bibliography.

UNIT 4 – PRESENTATION**18 Hrs.**

Language - Court Manners - Citing Authorities - Emphasis on the Law - Thorough Knowledge of the Facts - Application of the Facts to the Question Asked.

UNIT 5 – RECORD MAINTANENCE**18 Hrs.**

Pre - trial preparations - Maintenance of Record during court proceedings - Preparation of documents - Internship diary

Max. 90 Hours**COURSE OUTCOMES:**

On the completion of the course the student will be able to

CO1: This course is designed to introduce the students to the practical aspects of the profession.

CO2: This exercise enables them to obtain direct experience about the practical procedure.

CO3: They will also get a practical exposure to the techniques of client interviewing and other related aspects.

CO4: Will help the students further to observe the preparation of documents and court papers and procedure for the filing.

CO5: Will help the students to unearth the potential they possess towards the profession.

CO6: This Course will equip the students with the required Professional Skills

TEXT / REFERENCE BOOKS

1. Dr. S.P. Gupta, Moot Court, Pre-Trial Preparations and Participation in Trial Proceedings, Jain Book Agency, 3rd edn, 2012.
2. Dr. KailashRai, Moot Court, Pre-Trial Preparations and Participation in Trial Proceedings, Jain Book Agency, 5th edn, 2012.
3. Dr. S.P. Gupta, Moot Court, Pre-Trial Preparations and Participation in Trial Proceedings, Jain Book Agency, 3rd edn, 2012.
4. Abhinandan Malik, 'Moot Courts and Mooting', Eastern Book Company, 1st edn, 2015.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

(Practical Examination)

OPTIONAL PAPERS

SAL1551	INFORMATION TECHNOLOGY LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To understand Cyber space and The Information Technology Act, 2000.
- To learn multifarious changes brought into substantive and procedural legislations.
- To know various facets of Cyber Law and its impact on modern world.

UNIT – 1 INTRODUCTION**15Hrs.**

Concept of Information Technology and Cyber Space- Interface of Technology and Law -Jurisdiction in Cyber Space and Jurisdiction in Traditional Sense - Internet Jurisdiction - Indian Context of Jurisdiction - Enforcement Agencies- International Position of Internet Jurisdiction - Cases in Cyber Jurisdiction.

UNIT – 2 INFORMATION TECHNOLOGY ACT, 2000**18Hrs.**

Aims and Objects — Overview of the Act – Jurisdiction-Electronic Governance – Legal Recognition of Electronic Records and Electronic Evidence -Digital Signature Certificates - Securing Electronic Records and Secure Digital Signatures - Duties of Subscribers - Role of Certifying Authorities - Regulators Under the Act-The Cyber Regulations Appellate Tribunal - Internet Service Providers and Their Liability – Powers of Police Under the Act – Impact of the Act on Other Laws.

UNIT – 3 E-COMMERCE**18Hrs.**

E-Commerce - UNCITRAL Model - Legal Aspects of E-Commerce - Digital Signatures - Technical and Legal Issues - E-Commerce, Trends and Prospects - E-taxation, E-Banking, Online Publishing and Online Credit Card Payment - Employment Contracts - Contractor Agreements, Sales, Re-Seller and Distributor Agreements, Nondisclosure Agreements- Shrink Wrap Contract-Source Code- Escrow Agreements etc.

UNIT – 4 CYBER LAW AND IPRS**17Hrs.**

Understanding Copy Right in Information Technology - Software - Copyrights Vs Patents Debate - Authorship and Assignment Issues - Copyright in Internet - Multimedia and Copyright Issues - Software Piracy –Patents - Understanding Patents - European Position on Computer Related Patents - Legal Position of U.S. on Computer Related Patents - Indian Position on Computer Related Patents –Trademarks - Trademarks in Internet - Domain Name Registration - Domain Name Disputes & WIPO-Databases in Information Technology - Protection of Databases - Position in USA,EU and India.

UNIT – 5 CYBER CRIMES**17 Hrs.**

Meaning of Cyber Crimes–Different Kinds of Cyber Crimes – Cyber Crimes Under IPC, Cr.P.C and Indian Evidence Law - Cyber Crimes Under the Information Technology Act,2000 - Cyber Crimes Under International Law – Hacking- Child Pornography- Cyber Stalking- Denial of Service Attack- Virus Dissemination- Software Piracy- Internet Relay Chat (IRC) Crime- Credit Card Fraud- Net Extortion- Phishing etc - Cyber Terrorism - Violation of Privacy on Internet - Data Protection and Privacy.

Max. 85 Hrs.**COURSE OUTCOME:**

On completion of the course the student will be able to

CO1: Student are able to have in-depth understanding of Information Technology Law.

CO2: Student are able to understand various Cyber Crimes.

CO3: Student are able to understand e-commerce.

CO4: Student are made to be acquainted with social and intellectual property issues in Cyberspace.

CO5: Student are equipped with the regulations of the Information Technology law and various mechanisms working under the IT Act.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/REFERENCE BOOKS

1. Anirudh Rastogi, *Cyber Law: Law of Information Technology and Internet*, Lexis Nexis Wadha, Nagpur, 1st ed., 2014.
2. Vakul Sharma, *Information Technology Law and Practice*, Universal Law Publishers, 3rd ed., 2011.
3. Harish Chander, *Cyber Laws and IT Protection*, PHI Learning Pvt. Ltd., 2012.
4. Nandan Kamath, *Law Relating to Computers, Internet and Ecommerce*, Universal Law Publishing Co., Ltd., 2006.
5. Pavan Duggal, *Mobile Crime and Mobile Law*, Saakshar Law Publications, 2013.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.****PART A:** 6 Questions to be answered out of 8 questions and each question carries 5 Marks**30 Marks****PART B:** 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks**40 Marks****PART C:** 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks**30 Marks**

SAL1552	LAW ON AGRICULTURAL LABOUR	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To emphasize the legislation on Agricultural Labourers.
- To wider perspective on the social security legislations and the schemes framed by the Appropriate Government for Agricultural labourers.
- To learn international conventions relating to Agriculture labour.

UNIT 1 – INTRODUCTION**15 Hrs.**

Definition of Agriculture Labour – National Commission on Labour – First Agriculture Labour Enquiry committee 1950 – 1955 – Problems faced by Agriculture labour in India – seasonal employment, migration to other occupation, famine, debts, Socio – Economic Problem, Agriculture and Indian Economy.

UNIT 2 – CONSTITUTIONAL PROVISIONS ON AGRICULTURAL LABOUR AND LEGISLATIONS ON AGRICULTURAL LABOURERS**18 Hrs.**

Article 23, 43 of the Constitution of India, Trade Union for Agricultural laborers - Plantations Labour Act, 1951 - Debt Relief Act, 1976

UNIT 3 – SOCIAL SECURITY LEGISLATIONS FOR AGRICULTURAL LABOURERS**18Hrs.**

The Workmen's Compensation Act, 1923 and Agricultural Labour - Minimum Wages Act, 1948: Its applicability to Agricultural Labour - Impact of Equal Remuneration Act, 1976 on Agricultural Labour - Protection of Child Worker in Agriculture via Child Labour (Prohibition and Regulation) Act, 1986 Unorganized Workers' Social Security Act, 2008: Salient Features with Special Emphasis on Agricultural Labour.

UNIT 4 – NATIONAL SCHEMES FOR AGRICULTURAL LABOURERS AND STATE LEGISLATIONS**17Hrs.**

Mahatma Gandhi National Rural Employment Guarantee Act, 2005 [MGNREGA], Jawahar Gram Samridhi Yojana, Swarnjayanti Gram Swarozgar Yojana, Indira Awas Yojana, Pradhan Mantri Gram Sadak Yojana, Krishi Shramik Samajik Suraksha Yojana, Food for Work Program Kerala Agricultural Workers' Act, 1974 - A Model Legislation - The Tamil Nadu Agricultural Labourers Farmers (Social Security and Welfare) Act, 2006- Recent Developments.

UNIT 5 – INTERNATIONAL CONVENTIONS**17Hrs.**

The ILO Conventions - Workmen's Compensation (Agriculture) Convention 1921, Sickness Insurance (Agriculture) Convention 1933, Invalidity Insurance (Agriculture) Convention 1933, Survivors' Insurance (Agriculture) Convention 1933, Minimum Age (Agriculture) Convention 1921, Holidays and Pay (Agriculture) Convention 1952, and Labour Inspection (Agriculture) Convention 1969 provided for social security schemes.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the student will be able to

CO1: This course gives an outlook about the conditions of agricultural laborers in and across the nation.

CO2: Helps the Student to have an in-depth analysis about the problems undergone by the agricultural laborers.

CO3: Various welfare schemes enacted by state legislations and its implementation procedures will have them an overall understanding about the situation prevailing.

CO4: International Conventions dealing with the agricultural laborers will create an avenue for research.

CO5: This Course helps the Student to have a clear perspective about the oppressed section of labour in and across the nation.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/REFERENCE BOOKS

- Prof. S.N. Misra, labour and Industrial Laws, 28th Edn, 2016.
- Dr. Avtar Singh & Dr. Harpreet Kaur, Introduction to Labour and Industrial Laws, 4th Edn, 2017.
- Dr. G V Goswami, Labour Industrial Laws, 8th Edn. – 2004.
- P.L.Malik, INDUSTRIAL LAW, An Encyclopaedia of all Labour Laws and Industrial Laws in India, 2017.
- P Malhotra, The Law of Industrial Disputes, 6th Edn.-2004, Butterworths, New Delhi, Vol. 1 & 2.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1553	INTERNATIONAL HUMAN RIGHTS	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To introduce basic human rights philosophy, principles, instruments and institutions.
- To explore aspects of the diverse and increasingly complex body of international law of human rights that has both national and international application.
- To understand enforcement, implementation, remedies of International Human Rights Law.

UNIT 1 – HISTORICAL BACKGROUND**15Hrs.**

Historical origins- state and self-determination-Ideological foundations- normative differences between "civil rights", "constitutional rights" and "human rights"-The charter and the declaration: universality, inalienability and right-balancing introduced in the 1948 Universal Declaration of Human Rights

UNIT 2 – HUMAN RIGHTS NORMS**18Hrs.**

International Bill of Rights- UN- The ICCPR (International Covenant on Civil and Political Rights) Framework Provisions-The Prohibition against Torture -Economic and Social Rights-Minority Rights-Universal Declaration of Human Rights (UDHR).

UNIT 3 – HUMAN RIGHTS INSTITUTIONS**18Hrs.**

The Charter and Treaty Bodies- Regional Arrangements: emergence of regional arrangements for human rights - advantages and disadvantages of promoting human rights on a regional basis- Critical Perspectives: criticisms against the human rights movement- effectiveness and legitimacy and exposing its alleged biases.

UNIT 4 – PROTECTION OF HUMAN RIGHTS**17Hrs.**

Human Rights, Peace, Non-Violence, and Conflict Resolution-Implementing Human Rights Standards and Required Legal Aid, Remedies and Reforms-Role of Judiciary- Role of National Human Rights Commission and State Legal aid -Public Interest Litigation and Media- Refugee right- rights of prisoners and prison reforms- rights of women and children- Role of other agencies- Rights of Children- Convention on Rights of Children- CEDAW.

UNIT 5 – IMPLEMENTATION, ENFORCEMENT, REMEDIES OF INTERNATIONAL HUMAN RIGHTS LAW**17Hrs.**

Magna Carta- International enforcement of international law of human rights- International adjudication- International political implementation- International procedures for making human rights complaints within the UN system.

Max.85 Hrs.**COURSE OUTCOME:**

On completion of the course the student will be able to

CO1: Identify main historical trends in the development of international human rights law.

CO2: Compare the international human rights law system and regional human rights law systems.

CO3: Evaluate the various mechanisms and procedures for human rights law enforcement.

CO4: Critically assess specific areas of international human rights law with reference to relevant legal instruments and contemporary cases.

CO5: Reflect on the lessons drawn from international human rights law about the domestic human rights situation.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/REFERENCE BOOKS

- Upendra Baxi, "The Future of Human Rights", Oxford University Press, New Delhi.
- Daniel Moeckli, Sangeeta Shah and Sandesh Sikumaran "International Human Rights Law", 2014.
- Alison Bisset, "Blackstone's International Human Rights Documents", 2014.
- Asbjorn Eide, "International protection of human rights", Strasbourg, 1995.
- Henry Steiner, Philip Alston, "International Human Rights in Context- Law, Politics and Morals", 2000.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1651	ANIMAL PROTECTION LAWS	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To understand the development of Animal Protection Laws and its application in Indian scenario.
- To impart knowledge on Wild Life protection Act.
- To learn International conventions relating to animal welfare.

UNIT 1 – HISTORICAL BACKGROUND AND LEGISLATIONS**15Hrs.**

Protection of Animals under Ancient and British Laws, - Sources of Law: Constitutional Provisions. 7th Schedule, 11th Schedule and 12th Schedule - Provisions under Indian Penal Code 1860 - Prevention of Cruelty Act, 1960 - Wildlife Protection Act, 1972 - Food Safety & Standards Regulations 2011 - Drugs and Cosmetics Act, 1940 and Rules 1945 - Animal Welfare Act, 2011

UNIT 2 – WILD LIFE PROTECTION ACT, 1972**18Hrs.**

Evolution and Development of the concept of Wildlife Protection in India: Object & scope of the Act - Definition of wildlife – Sec 2(37) - Authorities and Wild life advisory board: members and their duties - Hunting of Wild Animals - Sanctuaries - National Park and Central Zoo Authority - Trade or Commerce in Wild Animals - Preventions and Detection of Offences - National Zoo Policy, 1998.

UNIT 3 – PREVENTION OF CRUELTY TO ANIMALS ACT, 1960**18Hrs.**

Objects and Reasons – Definitions - Animal Welfare Board – Constitution – Term - Powers and Functions - Cruelty to Animals - Experimentation on Animals – Offences - Procedure and Exceptions - Rules and regulations under the Act - The Prevention of Cruelty to Animals Rules, 2017 - Critical Evaluation and Implementation - Recent Amendments

UNIT 4 – ETHICS AND LAW IN ANIMAL WELFARE**17Hrs.**

Nature of Animal Ethics - Inter-relation of Animal Ethics and Law - Role of Animal Ethics in Law - Balance between Animal Welfare and Medical Ethics - Recent Amendments

UNIT 5 – INTERNATIONAL CONVENTIONS**17Hrs.**

United Nations Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) March - International Whaling Convention (IWC) - Convention on Migratory Species (CMS) - Convention on Biological Diversity (CBD) - Universal Declaration on Animal Welfare (UDAW) - Animal Welfare Standards in International Trade - Treaties and Free Trade Agreement

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the student will be able to

CO1: Students were able to understand the nature of protection available to wildlife in general.

CO2: The detailed concepts in underlying legislations will help the Student to relate with present scenario.

CO3: Enhances the deeper understanding and balance between animal ethics and law.

CO4: Will help them to have a perspective of research and comparative study.

CO5: Provides brief knowledge about International regime of Protection.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/ REFERENCE BOOKS

- Animal Laws of India, Raj Panjwani, Ozair Husain, Maneka Gandhi, 6th Edition, 2016, Universal Law Publication (Lexis Nexis).
- Animal Rights: Current Debates and New Directions (edited by Cass Sunstein and Martha Nussbaum) Oxford University Press, 2006.
- Animal Law: Welfare, Interest and Rights – David S Favre, 2nd Edition (Aspen Elective), Aspen publishers 2011.
- P Leelakrishnan "Animal Rights and Compassion for Other Living Beings: Growing Dimensions of Right to Life Concept Under the Constitution" 2014(4) KLT, Journal p.85-88.
- Indian Forest Laws – A Kishan, 6th Edition 2013, Asia Law House, Hyderabad

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1652	INTERPRETATION OF STATUTES	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To understand Acts and Rules are drafted by legal experts.
- To unlock the locks put by the Legislature by using aids and principles of interpretation.
- To make the student familiar with various rules of interpretation.

UNIT 1 – INTRODUCTION**15Hrs.**

Law Making: Legislature, Executive and the Judiciary - Principle of Utility - Law and Public Opinion - Law and Social Control - Relevance of John Rawls and Robert Nozick - individual interest to community interest - Law and Morals – Meaning, objectives and scope of interpretation”, “construction” and “statute” – Public opinion and law making.

UNIT 2 – NATURE AND KINDS OF INDIAN LAWS**18Hrs.**

Statutory, Non-statutory, Codified, Uncodified, State-made and State-recognized laws – Parts of a Statute - Commencement, operation and repeal and revival of statutes - Purpose of Statutory Interpretation – Sources of Statutory Interpretation – The General Clauses Act, 1897: Nature, Scope and Relevance – Definition clauses in various legislations: Nature and Imperative Role.

UNIT 3 – PRINCIPLES & RULES OF STATUTORY INTERPRETATION**18Hrs.**

Literal and Logical Rules of Interpretation – Legalism and Creativity – Legal Language, Legal Riddles and Logic – Golden Rule and Mischief Rule – Rule of Harmonious Construction – Maxims- Strict construction of Penal Laws and Taxation Laws – Judicial Activism, Judicial Process and Judicial Restraint- Internal Aids and External Aids of Interpretation

UNIT 4 – PRINCIPLE OF CONSTITUTIONAL INTERPRETATION**17Hrs.**

Interpretation of Constitution – Principles and Theories - Preamble as a tool – Reading Directive Principles and Fundamental Duties with Fundamental Rights – Interpretation of International Instruments – Presumptions- Presumption against: established jurisdiction - exceeding territorial nexus - ouster of jurisdiction of courts - changes in common law - including what is inconvenient or unreasonable - intending injustice or absurdity - retrospective operation of Law -violation of international law - Presumption on favor of constitutionality of a statute.

UNIT 5 – LEGISLATIVE DRAFTING**17Hrs.**

Principles and Process of Legislative Drafting - Simplicity, Preciseness, Consistency, Alignment with Existing law, Brevity – Drafting General Laws – Special Laws – Rules – Orders

Max.85 Hrs.**COURSE OUTCOME:**

On completion of the course the student will be able to

CO1: Understand the general structure of statutes.

CO2: Apply the various theories of interpretation and techniques relevant to the interpretation of enacted law and case law.

CO3: Provide Student with a thorough understanding of the various principles and theories.

CO4: Emphasized to provide Student with the ability to understand the nature of constitutional interpretation and to understand and apply the principles of judicial precedent.

CO5: Student familiarized with Legal drafting, legal concepts and terminology commonly encountered in statutes and law reports.

CO6: This Course will equip the Student with the required Professional Skills

TEXT/ REFERENCE BOOKS

1. G.P. Singh, Principles of Statutory Interpretation, Lexis Nexis Butterworths Wadhwa, Nagpur, 12th ed., 2010.
2. G.P. Singh, Principles of Statutory Interpretation (also including General Clauses Act, 1897 with notes), Lexis Nexis Butterworths Wadhwa Nagpur, 13th ed., 2012.
3. Avatar Singh and Harpreet Kaur, Introduction To Interpretation Of Statutes, Lexis Nexis Butterworths Wadhwa Nagpur, 4th ed., 2014.
4. NS Bindra, Interpretation of Statutes, Lexis Nexis Butterworths Wadhwa Nagpur, 11th ed., 2013.
5. M.P Tandon, Interpretation of Statutes, Jain Book Agency, 11th ed., 2013.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1653	INTERNATIONAL MONETARY FUND	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To equip Student with tools and methods of analyzing aspects related to international financial systems.
- To understand Balance of Payments and International financial markets.
- To make students aware of foreign exchange market management and mitigating foreign exchange risk.

UNIT 1 – EVOLUTION OF MONETARY SYSTEM**15Hrs.**

Bimetallism (before 1875) - Classical Gold Standard (1873-1914) - inter-war period (1915-1944) - Bretton woods System (1945-1972) - Flexible Exchange Rate arrangements - European Monetary System - Euro and the European Monetary Union - Currency Crisis: The Mexican Peso Crisis - The Asian Currency Crisis - The Argentine peso Crisis - Fixed versus Flexible Exchange rate regimes.

UNIT 2 – BALANCE OF PAYMENTS AND INTERNATIONAL LINKAGES**18Hrs.**

Balance of payments and its components - BOP Accounting - BOP trends in major countries coping with current account deficit - Capital Account Convertibility - pros and cons

UNIT 3 – INTERNATIONAL FINANCIAL MARKETS AND INSTRUMENTS**18Hrs.**

International money market - Euro Currency Market, Euro credits, Forward Rate Agreements, Euro Notes - International Bond market - Credit Rating and indices of international bond market - Types of instruments - International equity markets: Market structure, trading in international equities, cross listing of equities, GDRs, ADRs, IDRs, Global registered shares, International equity market benchmark, factors affecting in international equity market.

UNIT 4 – FOREIGN EXCHANGE MARKETS**17Hrs.**

Functions and structure of forex market - Forex market participants, foreign exchange spot rates, forward, futures, options and swap market; Foreign Exchange rate determinants - International parity relationship, Interest rate parity, Purchasing power parity and International Fisher Effect.

UNIT – 5 FOREIGN EXCHANGE MANAGEMENT**17Hrs.**

Management of Transaction exposure, money market hedge, hedging foreign currency payable, cross hedging minor currency exposure, hedging through invoice currencies, Hedging via lead and lag, Exposure netting; Management of economic exposure; measurement of economic exposures, Determinants of economic exposure: Management of translation exposure –translation exposure methods, management of translation exposure, balance sheet hedge and derivatives hedge.

Max.85 Hrs.**COURSE OUTCOME:**

On completion of the course the student will be able to

CO1: Student will develop an introductory understanding of a broad range of topics involving transnational business that arise in making, regulating and breaking international business relationships.

CO2: Student will have understanding over transnational business settings, including transnational licensing agreements and development agreements.

CO3: This Course will give a brief understanding over Money Market, Currency Aspects and so on.

CO4: Helps the Student to have a detailed understanding over Foreign Exchange Management.

CO5: Will enhance Economic Exposure to Student at all levels.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/ REFERENCE BOOKS

1. Apte, P.G: International Financial Management, Tata McGraw Hill, New Delhi 5th Ed. 2009.
2. Shaprio, Alan. C: Multinational Financial Management, Prentice Hall, New Delhi. 2006,8th ed.
3. Cheol S. Eun, Bruce G. Resnick, International Finance Management, Mc Graw Hill, 5th ed, 2009.
4. Buckley, Adrian: Multinational Finance, Prentice Hall, New Delhi, 5th ed.
5. Thomas J. P'brien, International Finance – corporate decision in global markets, 2nd ed.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1751	LAW ON EDUCATION	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE

- To apply the implications of the interdependent relationship of law and the ethical imperatives of educational system.
- To learn constitutional provisions and judicial decisions that affect education systems.
- To know recent developments in education policy.

UNIT 1 – DEVELOPMENT OF RIGHT TO EDUCATION IN INDIA**15Hrs.**

National Policy on Education, 1986 – Constitutional Principles: DPSP - The Constitution (Eighty-sixth Amendment) Act, 2002, - Right of Children to Free and Compulsory Education Act, 2009, Recent Amendments.

UNIT 2 – RECENT DEVELOPMENT IN WOMEN AND TRIBAL EDUCATION IN INDIA**18 Hrs.**

UGC policy and Programmes on Women's Education - Legislations on Women Education - Role of Judiciary in Protection and Promotion of Women's Education - Education Among Rural Girls in India - MHRD and Women's Education - Recognition of Scheduled Tribes – Article 15 (4), 29, 46 of Indian Constitution.

UNIT 3 – PRIVATISATION OF EDUCATION**18Hrs.**

Privatization - Causes and Consequences - Shifting Education from State List to Concurrent List, 1976 - Privatization of Professional Education - Cases against Privatization - The Ramamurti Committee (1990) - Accessibility and Accountability in Education - Impact of Privatisation on Globalization -Privatization and Law - Recent Amendments

UNIT 4 – PROFESSIONAL BODIES FOR QUALITY IMPROVEMENT**17Hrs.**

Role of University Grants Commission - Other Professional Bodies -Problem of Co-ordination -Role Performed by Different Commissions and Committees: Law Commission of India - Kothari Commission - Yashpal committee - Hurtag committee - National Knowledge Commission.

UNIT – 5 INTERNATIONAL LAW AND RIGHT TO EDUCATION**17Hrs.**

Universal Declaration of Human Rights - International Covenant on Economic, Social and Cultural Rights: Convention against Discrimination in Education, 1960 - International Bill of Rights and Right to Education- Regional Legal Instruments- Role of UNO's Specialized Agencies: The UNESCO convention against discrimination in Education- The convention on the Rights of the Child.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: A brief outlook on Constitutional amendments regarding Education with special reference to women will help Student in further research.

CO2: Enhances student's idea over regulation and schemes with relevant to Education.

CO3: Helps Student to have a global perspective of legislations on Education.

CO4: This Course will open new avenues of research regarding privatization of Education.

CO5: Various Commissions and corresponding Amendments will give a detailed interpretation of law in depth.

CO6: This Course will equip the Student with the required Professional Skills

TEXT/REFERENCE BOOKS

- Weiner, Myron (1991). The Child and the State in India; Child Labour and Education Policy in Comparative Perspective. Princeton, NJ: Princeton University Press.
- Beiter, Klaus Dieter (2005). The Protection of the Right to Education by International Law, Martinus Nijhoff Publishers.
- S. Gupta, Education in Emerging India, 2nd Ed. (2008), Shipra Publications, Delhi, p.1.
- Catharine MacKinnon, Feminism Unmodified, Harvard University Press, 1982.
- Iavia Agnes, Sudhir Chandra, et.al. (eds.) Women & law in India (Oxford University Press, 2004, New Delhi).

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1752	WOMEN AND CRIMINAL LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To understand the feeble condition of women and their exploitation.
- To know the legal limitation on their capacity and legal rights and protection provided in the Constitution and in various laws.
- To learn the role of judicial Institutions and investigating authorities in this regard for preventing & control strategies.

UNIT 1 – WOMEN AND INTERNATIONAL INSTRUMENTS**15Hrs.**

UDHR- Convention on the Political Rights of Women 1953- CEDAW 1979- Declaration on the Elimination of Violence Against Women 1993- Optional Protocol to the Convention on the Elimination of Discrimination of Women, 1999.

UNIT – 2 WOMEN IN PRE-CONSTITUTION AND POST - CONSTITUTION PERIOD**18Hrs.**

Status of Women- Social and Legal Inequality - Social Reform Movement in India - Legislative Response in India- Women in Post-Constitution Period- Gender Equality and Protection Under the Constitution- Constitutional Provisions- Preamble - Art. 14, 15, 23- National Commission for Women Act, 1990.

UNIT – 3 CRIMES AGAINST WOMEN**18Hrs.**

Trafficking- Dowry Death- Honor Killings- Acid Attacks- Female Infanticide- Abetment to Suicide of a Married Women- Outraging the Modesty of Women – Stalking- Kidnapping – Abduction- Importation of Girl (Sec. 366-B)- Sexual Assault: Rape- Custodial Rape- Marital Rape- Gang Rape- Adultery- Cruelty by Husband and Relatives of Husband (Sec. 498A).

UNIT – 4 WOMEN AND SOCIAL LEGISLATIONS**17Hrs.**

Women and Social Legislation: Dowry Prohibition Law - Sex Determination Test - Law Relating to Prevention of Immoral Trafficking Act- Domestic Violence Act - Commission of Sati (Prevention) Act, 1987- Law Relating to Eve Teasing – Obscenity- Indecent Representation of Women Act- Medical Termination of Pregnancy Act, 1971.

UNIT – 5 WOMEN AND OTHER LAWS**17Hrs.**

Uniform Civil Code – Law of Divorce Under Hindu Law- Muslim Law- Christian Law- Law of Maintenance- Sex Inequality in Inheritance Rights – Inheritance Under Hindu Law, Christian Law and Muslim Law - Matrimonial Property Law - Right of Women.

Factories Act, 1948 - Provisions Relating to Women- Maternity Benefit Act, 1961 - Equal Remuneration Act 1976- Law Relating to Sexual Harassment at Work Place.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: Helps the Student to have a better understanding of various issues faced by women in our country and the Constitutional guarantees they have.

CO2: It helps the Student to learn about the social security legislations for women and their implementation.

CO3: Promotes research and case studies in analyzing the current legislations related to women.

CO4: Helps to have a deeper understanding in provisions for betterment of women in personal laws.

CO5: Enhances the Student to concentrate in International legislations and its ratification.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/ REFERENCE BOOKS

1. Paras Dewan, Dowry and Protection to Married Women, Allahabad Law Agency, 3rd Edition, 2013.
2. Mamta Rao, Law Relating to Women and Children, Third Edition, Eastern Book Company, 2012.
3. Sathe S.P, Towards Gender Justice, Eastern Book Company, New Delhi, 3rd Edition, 2011.
4. Chatteraj, B.N., Crime against Women: A Search for Peaceful Solution, LNIN-NICFS, New Delhi, 2nd Edition, 2007.
5. Kaushik, P.D. Women Rights, Book well Publication 2007

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1753	INTELLECTUAL PROPERTY LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To introduce the different categories of Intellectual Property Rights.
- To learn minimum standard to identify the items of protection.
- To know the rights conferred to the right holder and remedies available in the case of infringement.

UNIT 1 – INTRODUCTION**15Hrs.**

Meaning and concept of intellectual Property and the need for protection - The world Intellectual property Organization (WIPO) Convention - Origin and functions of World Trade Organisation (WTO) - Trade Related Intellectual property Rights (TRIPS) Agreement of WTO and its effects on Intellectual Property law in India; Dispute Settlement Mechanism.

UNIT 2 – COPYRIGHT ACT**18Hrs.**

The Copyright Act (1957) and recent amendments-works in which copyright subsist-Authorship And Ownership-Different Rights-Registration of copyright-Term of copyright-Administration of copyright law-Performer's rights-Broadcaster's rights-Collective administration of copyrights-Moral rights-Copyright infringements-Remedies-Composition of Copyright Board.

UNIT 3 – TRADEMARK & DESIGNS ACT**18Hrs.**

The Trade Mark Act (1999), object, definitions, salient features- Distinctiveness, deceptive similarity- Assignment and transmission -Registration: Procedure-Term-Effects-Grounds for refusal- Powers and functions of Registrar- collective marks-certification marks-Trade mark agents - Appellate board - Infringement action, passing off action –Well known marks-The designs Act 2000; definitions, registration of designs, copyright in registered designs, piracy of registered designs, remedies, powers and duties of Controller - Semi conductor integrated circuit layout-Trade secrets.

UNIT – 4 LAW OF PATENTS**17Hrs.**

The Patents Act (1970):object definitions, salient features-Invention: patentable and non- patentable inventions-product and process patents- -Rights of patentees-assignment and transmission-term of patent–Registration-opposition to grant of patent, anticipation- Revocation of patents- Compulsory licences- Exclusive marketing rights-Infringement- exclusive marketing rights- Patent office and power of Controller, patents of addition-Patenting of biotechnology-Nanotechnology.

UNIT 5 – FARMERS AND BREEDERS RIGHT & GEOGRAPHICAL INDICATION**17Hrs.**

The Protection Of Plant Varieties And Farmers' Rights Act, 2001: object definitions, salient features The Geographical Indications Of Goods (Registration And Protection) Act, 1999- object definitions, salient features

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: The course is designed to introduce fundamental aspects of Intellectual property Rights.

CO2: The course introduces all aspects of the IPR Acts.

CO3: The course is intended to explain the basic principles of patents, trademarks, geographical designs, industrial designs, and copyright.

CO4: The course follows an international perspective and examines the international IP legal regime rather than focusing solely or predominantly on the national framework.

CO5: This course revolves around the protection of plant varieties and farmers right act.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/REFERENCE BOOKS

1. V.K. Ahuja, Law Relating to Intellectual Property Law, Lexis Nexis, 2nd ed., 2013.
2. N.S. Gopalakrishnan & T.G. Ajitha, Principles of Intellectual Property, Eastern Book Company, 2nd ed., 2014
3. B.L. Wadhera, Law Relating to Intellectual Property, Universal Law Publishing, 5th ed., 2014.
4. S. Narayan, Intellectual Property Law in India, Gogia Law Agency, Hyderabad, 3rd ed., 2005.
5. Holyoak & Torremans, Intellectual Property Law, Oxford University Press, New York, 2010.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks: 100

Exam Duration: 3 Hrs.

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks **30 Marks**

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks **40 Marks**

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks **30 Marks**

SAL1851	LAND LAWS INCLUDING TENURE AND TENANCY SYSTEM	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To learn Movement of Land Reforms and abolition of Intermediaries.
- To understand the law for the acquisition of land required for public purposes.
- To know laws relating to land and land revenue in Tamil Nadu and Tamil Nadu Apartment Ownership Act, 1994.

UNIT – 1 INTRODUCTION: MOVEMENT OF LAW REFORMS**15Hrs.**

Ownership of Land - Doctrine of Eminent Domain - Doctrine of Escheat - Pre-Independence Position-Land Tenure- Zamindari Settlement - Ryotwari Settlement -Mahalwari System - Intermediaries - Absentee Landlordism - Large Holdings- Post-independence Reforms: Abolition of Zamindaries- Laws Relating to Abolition of Intermediaries.

UNIT -2 LAND CEILING**18Hrs.**

Urban Land Ceiling and Agrarian Land Ceiling- Tamil Nadu Land Reforms Fixation of Ceiling of Land Act 1961 and Amendment Act, 1971.

UNIT 3 – LAWS RELATING TO ACQUISITION OF PROPERTY AND GOVERNMENTAL CONTROL AND USE OF LAND**18Hrs.**

Land Acquisition Act of 1894- Amendments to the Act – Tamil Nadu Amendments Act 1980- Requisition and Acquisition of Immovable Property under Defense of India Act.

UNIT – 4 LAWS RELATING TO TENANCY REFORMS**17Hrs.**

Rent Control and Protection Against Eviction- The Tamil Nadu Cultivating Tenants Protection 1955- The Tamil Nadu Cultivating Tenants (Payments of Fair Rent) Act, 1956- The Tamil Nadu Cultivating Tenants Arrears of Rent Relief Act, 1972- The Tamil Nadu Buildings (Lease and Rent Control) Act, 1960.

UNIT – 5 ENACTMENT AND CULTIVATING TENANTS**17Hrs.**

The Tamil Nadu Cultivating Tenants Protection Act, 1955 - The Tamil Nadu Cultivating Tenants arrears of rent relief Act, 1972, 1980 - The Tamil Nadu Cultivating Tenants Protection from Eviction Act, 1983, 1989 - The Tamil Nadu Cultivating Tenants (payment of Fair Rent) Act, 1956 - The Tamil Nadu Agricultural Land Record of Tenancy Right Act, 1969 - The Tamil Nadu Occupants of Kudiyruppu and Conferment of Ownership Act, 1971.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: This course will help the Student to have an overview about Constitutional provisions relating to the concept of land.

CO2: It provides an outlook over tedious legislation prevailed regarding land and the reforms undertaken subsequently.

CO3: Will help the Student in understanding the procedures of law relating to tenancy, ceiling and other related concepts.

CO4: Various reforms in this arena will enhance the research capacity of Student.

CO5: This course will enrich the Student in approaching this legislation in a practical way.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/REFERENCE BOOKS

1. Prof. A. Chandrasekaran, Land Laws of Tamil Nadu, 2nd Edn 2002, reprint 2010.
2. Kanwal Singh, Land Laws (Including Land Acquisition and Rent Laws), 1st Ed., 2014.
3. N.K. Acharya, Commentary on the Right To Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013, Asia Law House, 2014.
4. Constitution of India- J.N.Pandey.
5. Dr. P P Sexena, Transfer of Property Act, 2nd Ed. 2012

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1852	FINANCIAL AND SYSTEMATIC FRAUD	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To understand economic crime.
- To know law applicable to the banking and financial system.
- To learn the factors in fraudulent operations and risk management.

UNIT – 1 INTRODUCTION**15Hrs.**

Economic Crime: Meaning and Nature-Trends in Economic Crime-Fraud-Types-Difference between Economic Crimes and Conventional Property Offences-Impact of Economic Crimes on Society.

UNIT – 2 BANKING FUNCTIONS AND CRIMES RELATED THERETO**18Hrs.**

Introduction to Banking-Indian Financial System- Deposit Accounts-Loans and Advances (including documentation)- Security for loans and Advances-Miscellaneous Services provided by Banks - Electronic Banking-Frauds in Banking Sector- Credit Cards and Crimes related thereto

UNIT – 3 INSURANCE AND CAPITAL MARKET FRAUD**18Hrs.**

Introduction to General Insurance- Life Insurance- Insurance Product- Insurance Frauds- Types of Frauds in Property Insurance/Motor/Health insurance-Capital Markets: Primary Markets-Secondary Markets-Derivatives Markets--Role of Depositories and Role of Clearing Corporation

UNIT 4 – RISK MANAGEMENT**17Hrs.**

Risk in banking business-Types of risk- Liquidity Risk- Interest Rate Risk-Market Risk- Credit or Default Risk- Operational Risk-Role of RBI in Risk Management in Banks-Insurance and risk management-Grievance Redressal Mechanism in General Insurance-Mechanism to identify, Avoid, Prevent Frauds-Vigilance.

UNIT – 5 LEGISLATIVE & REGULATORY FRAMEWORK**17Hrs.**

Banking Regulations (including Codes & Ethic)-Anti Money Laundering Act— Insurance Act 1938, IRDA Act & Various Regulations issued by Regulator- Information Technology Act – 2000- Legal and Regulatory Framework of Securities Markets.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: Understand Different types, forms, causes and factors of fraud.

CO2: Understand the characteristics of fraud and gain Knowledge of the basics of detecting fraud.

CO3: Knowledge of basic principles and methods of prevention of fraud.

CO4: Understanding of Indian financial systems and understand the civil and criminal process involving fraud.

CO5: Understanding of bank and financial regulations and of the regulators in charge of maintaining these financial systems.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/REFERENCE BOOKS

1. Oughton, Frederick, 1971, Fraud and White collar crime, Eleck Bock Ltd..
2. Lal Bhure, 2003, Money Laundering: An insight into the dark world of Financial Frauds, Siddharth Publications.
3. Bologna, Jack, 1984, Corporate Fraud, Butterworth Publishers.
4. Pitchandi Nand Sivamurthy A, 1985, Insurance Frauds, The Indian Society of Criminology, Department of Psychology, Madras.
5. Ghosh Murrain, 1979, Black money – The case for India, Subarna Rekha, Calcutta.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1853	COMPETITION LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To introduce and develop the main principles of competition law.
- To provide comprehensive understanding of the legal rules, regulatory mechanisms and enforcement methods in the various fields of market regulation.
- To learn the factors which may be taken into consideration by the CCI when dealing with allegations of violation of the Act.

UNIT 1 – INTRODUCTION**15Hrs.**

Objective and Nature of Competition Laws - Origin of Competition Laws- Anti Trust Legislation in USA - Sherman Anti Trust Act, 1890 - Federal Trade Commission Act, 1914 - the Clayton Act, 1914 - UK Competition Act, 1998 - The Enterprises Act, 2002 - Treaty on the Functions of the European Union (TFEU) – MRTP Act, 1969 – Ragavan Committee Report, 2000 - Transformation of MRTP Act to Competition Act, 2002 – Distinction between MRTP Act and Competition Act – object and scope of Competition Act, 2002.

UNIT – 2 ANTI COMPETITIVE AGREEMENT**18Hrs.**

Definition – Tie in Arrangement – Exclusive supply Agreement – Exclusive distribution Agreement – Refusal to deal- Resale price maintenance – Cartel – Bidrigging – exceptions – protection of IPR

UNIT – 3 ABUSE OF DOMINANT POSITION**18Hrs.**

Meaning of Dominant position – Unfair or discriminatory trade practices – provisions under MRTP and Consumer Protection Act – Limiting protection or technical or scientific development – Denial of Access to market – Imposition of supplementary obligations – Protection of other markets – predatory price – Unfair prices

UNIT – 4 REGULATION OF COMBINATIONS**17Hrs.**

Acquisition – Merger – Amalgamations – Ban on Combinations – Non Competition clauses in Merger and Acquisition – Restrictive Trade Practices – Unfair trade practices

UNIT – 5 COMPETITION COMMISSION IN INDIA**17Hrs.**

Composition – Duties Power and functions the Commission – Contraventions of the orders of the Commission – Penalties – Competition Appellate Tribunal – Competition Advocacy – Competition Commission Report- Miscellaneous.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: This Course will enhance the Student about the importance of competition law in India.

CO2: It makes the Student to have a better understanding about the Anti Competitive Agreement.

CO3: This Course will also create awareness among the Student and develop their abilities to deal with the issues on the expanding horizons of corporate law.

CO4: This would also enable the Student to take up professional practice in the field of competition law and policy.

CO5: It helps the student to understand the role of the Competition Commission of India.

CO6: This Course will equip the Student with the required Professional Skills

TEXT/REFERENCE BOOKS

1. Avtar Singh, Competition Law, 2012, Eastern Book Company.
2. Tripathi, Competition Law.
3. Universal's Guide to Competition Law in India, 2003, Universal Publication.
4. Avtar Singh, Law of Monopolies and Unfair Trade Practices, 1993, Eastern Book Company.
5. Agarwal, V.K., Competition Act, Bharat Law House, New Delhi, 1st Edition, 2011

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1951	INVESTMENT LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To learn legal framework of various investment laws applicable in India.
- To understand the basic concepts of raising corporate finance and the laws related to the same. It also Provides the working knowledge of the operation of the legal framework of stock exchange and the legal sanctions behind various market regulatory authorities.
- To expose the students specifically to the establishment of SEBI, its constitution, roles, powers, functions etc.

UNIT – 1 INTRODUCTION**18Hrs.**

Meaning of Investment and Market -Nature and Risk Associated with Investment -Evolution of Investment and Bargaining Norms - Principles of International Investment Law -International Treaties - Types of Investment Contracts- Applicable Law - Stabilization Clauses -Renegotiation and Adaptation.

UNIT – 2 SHARES**18Hrs.**

Definition and Nature - Shares and Shareholders- Stock and Shares-Certificate of Shares- Call on Shares- Lien on Shares -Minimum Subscription - Share Capital - Issue and Allotment of Shares - Transfer and Transmission of Shares - Debentures, Charges and Deposits- Inter-Corporate Loans and Investments.

UNIT – 3 SECURITIES CONTRACTS**18Hrs.**

Basic Features of the Securities Contracts - Recognition of Stock Exchange - Derivatives - Options and Future- Listing of Securities- Penalties and Procedure for Adjudication.

UNIT – 4 SECURITIES AND EXCHANGE BOARD (SEBI)**18Hrs.**

SEBI Constitution - Powers and Functions of SEBI - Securities Appellate Tribunal - SEBI (Disclosure & Investor Protection) Guidelines.

UNIT 5 – DEPOSITORIES ACT**18Hrs.**

Salient Features - Agreement Between Depository and Participant- Registration of Transfer of Securities with Depository-Stamp Duty on Transfer - Non-Banking Financial Institutions.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: This course helps the Student to get knowledge on investment as economic activity and deal with various modes of making investment in India.

CO2: To provide working knowledge on the various types of shares available in stock markets in India.

CO3: Acquaints Student about the value of the securities and procedures related to the securities contract.

CO4: It empathize the Student about the role of the securities boards with an overview of legal framework relating to these concepts.

CO5: It gives the clear picture about the role of the Depositories Act and the different laws relating to modes of investment.

CO6: This Course will equip the Student with the required Professional Skills

TEXT/REFERENCE BOOKS

1. Singh, Avtar, Company Law, Eastern Book Company, Lucknow, 14th Edition, 2004.
2. Myneni, S.R., Law of Investment and Securities, Asia Law House, Hyderabad, 2nd Edition, 2006.
3. Gupta, S.N., the Banking Law in Theory and Practice, (1999) Universal, New Delhi.
4. Avdhani, V.A., Investment and Securities Market in India, Himalaya Publishing House, New Delhi, 9th Edition, 2011.
5. Taxman's, SEBI Manual, Taxman Publications, New Delhi, 15th Edition, 2010.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1952	HEALTH LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To know the concept of health in National and International perspective.
- To identify legal issues in health care system.
- To learn the relation between health law and medical ethics.

UNIT 1 – CONCEPT OF HEALTH: INTERNATIONAL PERSPECTIVE**15Hrs.**

Right to Health- Definition of Health, Lifestyles and health care, Environment and health- The relation between law and medicine -Public Health as a Index of Development- Health Promotion-WHO: Concept of Health-Universal Declaration of Human Rights, 1948-UN Declaration on the Rights of Mentally Retarded Persons, 1971-Declaration on Rights of Disabled Persons, 1975.

UNIT 2 – CONSTITUTIONAL AND LEGAL PROVISIONS RELATED TO HEALTH**17Hrs.**

Fundamental rights- directive principle of state policy-other constitutional obligations-Indian penal code, 1860-The code of criminal procedure,1973-consumer law applicable to health services-environment protection laws-National Health Policy- Health Insurance in India.

UNIT – 3 HEALTH LAWS AND TECHNOLOGICAL CHALLENGES**17Hrs.**

Medical Termination of Pregnancy Act, 1971: Reproductive Rights- Pre-Conception and Pre-Natal Diagnostic Techniques (Prohibition of Sex Selection) Act, 1994: Issues and Challenges -The Transplantation of Human Organs and Tissues Act, 1994: Framework for regulating Technological advancement (Surrogacy)- Recent Developments.

UNIT – 4 LIABILITY**18Hrs.**

Quality in Health Care-Medical insanity – Types, medical and legal insanity, the watershed of medical and legal insanity –McNaughten's case – legal protection of mentally ill persons with special reference to mental health act-Termination of pregnancy – legal issues-Tortious Liability- - Breach of Contract.

UNIT – 5 HEALTH LAW AND MEDICAL ETHICS**18Hrs.**

Bioethics- Reproductive and Genetic Technologies- ART- Principles of Medical Ethics- Cloning- Stem-Cell Research and Genetic Information- Autonomy- Board of Medical Ethics by Medical Council of India- Ethical Guidance for Research-Deontological Utilitarian Theories. Medical ethics, Indian Medical Council Act, 1956-Clinical Trial- Informed Consent.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: This course is to impart the student's knowledge of the relation between law and medicine.

CO2: Centre on the concept and legal provisions related to health in national and international perspective.

CO3: Examine whether the law successfully helps or hinders the goal of promoting and sustaining health.

CO4: Special emphasis on legal and moral issues surrounding administration of treatment and performance of medical procedures in the backdrop of advancement in the sphere of medical technology.

CO5: Cover the major mechanisms for insuring quality in health care and the ethical dilemmas that may result from medical treatment.

CO6: This Course will equip the Student with the required Professional Skills.

TEXT/REFERENCE BOOKS

1. M.C. Gupta, "Health Law: A Guide for Professionals and Activist's": 1st edition, (2002).
2. Micheal Davies, "Text Book on Medical Law", Vol. I 1st edition (2004).
3. Granville Austin, "Indian Constitution, The Cornerstone of a Nation", Oxford University Press, 3rd Edition, New Delhi, 2007.
4. Steiner, John E. Jr, Wolters Kluwer, "Health Law and Compliance", Aspen Pub., 6th Edn, 2017.
5. Anne- Maree Farrell, Hohn Devereux, Isabel Karpin, Penelope Weller "Health Law: Frameworks and Contexts", Cambridge University Press, Vol. II, (2015).

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1953	FARMERS AND BREEDERS RIGHT	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To learn The Protection of Plant Varieties and Farmers' Rights Act.
- To introduce the fundamental concepts and rights that is applicable to farmers and breeders.
- To know the provisions of legislations for their effective implementation.

UNIT - 1 INTRODUCTION**15Hrs.**

Introduction to Plant Varieties – Law & Science - Evolution of Plant Patents & Plant Varieties Protection - Justification for IP Protection – International Treaties and conventions – UPOV convention – TRIPS – ITPGRFA – CBD – Conflict Between TRIPS Agreement and Other International Treaties – PPV & FR Act, 2001.

UNIT – 2 ESSENTIAL REQUIREMENTS & VARIETIES**17Hrs.**

Definitions – Breeder-farmer- variety- Kinds of Varieties: “Extant Variety”- “Farmers’ Variety”- “Essentially Derived Variety”- Essential Requirements: Novelty, distinctiveness, uniformity & stability (NDUS) – denomination- propagating material- Plant varieties cannot be protected under the act-duration of protection.

UNIT – 3 EXCLUSIVE RIGHTS TO FARMERS AND BREEDERS**17Hrs.**

Farmers Right- Rights to seeds- to register varieties- to reward and recognition as conservator- to information about expected performance and compensation for under-performance- Right of Priority other rights: Right to benefit sharing- compensation for undisclosed use of traditional varieties- free services- protection from innocent infringement of breeders right- Breeders’ Rights v. Farmers’ Rights - Researcher’s Rights- Rights of Communities.

UNIT – 4 REGISTRATION, LIMITATIONS & INFRINGEMENT**18Hrs.**

Effect of registration and Registration procedure - Surrender and revocation of Certificate- Compulsory License - Infringement & Remedies - Plant Varieties Protection Appellate Tribunal- National Gene fund - Sui Generis System and Flexibility- Limits of Effective Sui Generis System.

UNIT – 5 CONTEMPORARY ISSUES IN PPV & FR ACT**18Hrs.**

Impact of PPVFR Act on Investment in Plant Breeding- Traditional knowledge and benefit Sharing- Bio piracy – Genetically modified crops and farmers Interest- Harmonization of the Act with Domestic Socio-Eco-Political Predilections and International Commitments.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: This course familiarizes Student with PVPR Act, 2001 and international treaties and conventions regarding protection of plant varieties.

CO2: Understanding the exclusive rights available to farmers and breeders.

CO3: Emphasized on Infringement and defenses to infringement and other limitations.

CO4: Student ultimately will understand the registration procedure and other contemporary issues in PVPR law.

CO5: Centre around the sui generis system for protection of plant varieties developed to integrate the rights of breeders, farmers and village communities, and taking care of the concerns for equitable sharing of benefits.

CO6: This Course will equip the Student with the required Professional Skills

TEXT/REFERENCE BOOKS

1. W.R.Cornish and D. Llewelyn, “Intellectual Property: Patents, Copyrights, Trade Marks and Allied Rights”, Sweet & Maxwell.
2. Elizabeth Verkey, “Law of Plant Varieties Protection”, Eastern Book Company, 2007.
3. Lionel Bently and Brad Sherman, “ Intellectual Property Law”, Oxford University Press.
4. B.L. Wadehra, “Law Relating to Intellectual Property”, Universal Law Publishing Co.
5. V.K. Ahuja, “Law Relating to Intellectual Property Rights”, LexisNexis

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1051	MEDIA AND LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To make the Student to understand the facets of Media Law.
- To know freedom of the press, privacy, right to information.
- To learn different dimensions of media, its impact and the legislations regulatory commission of new media.

UNIT – 1 CONCEPT OF MEDIA AND LAW**15Hrs.**

Concept of Media - Evolution of Media - Forms of Media - History of Media Legislation: Britain - U.S - Indian Context

UNIT – 2 CONSTITUTIONAL FRAMEWORK**17 Hrs.**

Freedom of Expression in Indian Constitution Art 19(1) and (2) - Interpretation of Media- freedom - Issues of Privacy - Right to Information

UNIT – 3 LEGAL FRAMEWORK**17Hrs.**

Parliamentary Proceedings (Protection of Publication) Act 1956 - Sedition - Criminal Procedure Code 1973 - Official Secrets Act 1923 - Working Journalists Act, 1955 - Advertisement Act of 1954 - Right to Information Act.

Specific Legal Issues Relevant to the Media: Media and Censorship- Defamation/Libel - Copyright issues - Obscenity - Contempt of Court - Piracy - Cyber laws.

Broadcasting Sector: Prashar Bharti Act 1990 - Broadcasting Acts - Cinematography Act 1952 - Cable T.V.Networks (regulation) Act of 1995 – Press Council of India Act- Recent Amendments.

UNIT – 4 REGULATION OF INTERNET**18 Hrs.**

Evolution of Internet as New Media - Regulating the Internet - IT Act of 2000 and Media Convergence - Regulatory commissions of new media for Facebook, Twitter, Instagram, Blog and other social networking sites.

UNIT – 5 SOCIAL FRAMEWORK**18Hrs.**

Media Writing - Media and Ethics - Paid Journalism - Self-Regulation Vs Legal regulation -Media & Human Rights: Case Study - Recent Amendments.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: Gives a clear picture about Media Jurisprudence in and across the world.**CO2:** Helps the Student to explore the various facets of media law in the light of legislations.**CO3:** Enriches the Student with the knowledge about role of media in legal, social and political aspects.**CO4:** Offers a scope for research about regulatory mechanism regarding media laws and its changing dimensions.**CO5:** Enhances the ability of critical analysis about both positive and negative impacts of media and gives a wider picture to the Student.**CO6:** This Course will equip the Student with the required Professional Skills.**TEXT/REFERENCE BOOKS**

1. D.D Basu. 2002. Law of the Press, New Delhi Prentice Hall.
2. K.S. Venkateshwaran. 1993. Mass Media Laws and Regulations in India, Singapore AMIC.
3. Media Ethics and Laws - By Jan R Hakemulder, Fay A.C. de Jonge, PP Singh.
4. Bonime, Andrew, and Ken C Pohlmann. Writing for New Media. New York: John Wiley, 1998.
5. Wimmer, Roger D & Joseph R. Dominic (2003): Mass media Research: An introduction (7th Edition), Belmont, CA: Wadsworth.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.****PART A:** 6 Questions to be answered out of 8 questions and each question carries 5 Marks**30 Marks****PART B:** 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks**40 Marks****PART C:** 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks**30 Marks**

SAL1052	TRANSPORTATION LAW	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To understand the significance of transport in human life.
- To learn the present status of Indian laws on regulating the transport sector in India.
- To know the powers of board of claims tribunal.

UNIT – 1 INTRODUCTION**15Hrs.**

Transportation - Transportation in India - Transport and non Transport vehicles - Public and private service vehicles – Carriage - Insurance requirements for motor vehicles- Role of the central government - Role of the state government – Recent Developments

UNIT – 2 THE CARRIAGE BY AIR ACT, 1972**17Hrs.**

Montreal Convention: Application and Exemptions - Domestic air laws in india- Scope and Object of the Act - Definitions – Combined Carriage - Liability of the Carrier - Compensation for damages – Aviation safety, Security and liability laws - Recent Amendments

UNIT – 3 LEGAL PROVISIONS IN INDIA**17Hrs.**

Constitutional provision for Transportation - Road Transport Corporations Act 1950 - National Highways Act 1956 - Motor Vehicles Act 1988 - Multimodal transportation of goods Act 1993 - Carriage by Road Act 2007 - Merchant shipping Laws – The Customs Act, 1962 – Provisions relating to ships carrying imported/exported goods – power to search vessel – penalty for short landing of goods – Criminal Prosecution- Passengers Baggage regulation - National Highways Tribunal Rules(2003) - Recent Amendments

UNIT – 4 RAILWAYS ACT, 1989**18Hrs.**

Scope and Object of the Act - Definitions – Carriage of Passengers – Carriage of Goods – Responsibilities of Railway Administrations as carriers – Accidents – Liability of Railway Administration for death and injury to passengers due to Accidents – Penalties and offences

UNIT – 5 TRIBUNALS**18Hrs.**

Application for compensation- Board of claims tribunal - State transport appellate tribunal - Railways Grievance Redressal Tribunal - Hierarchy of courts - Procedure and powers of claims tribunals - Judgment and award of compensation.- Settlement of claims outside of claims tribunal - Enforcement of award of the claims tribunal – Appeals - Bar on jurisdiction of Civil Courts- Power of State Government to make rules.

Max.85Hrs.**COURSE OUTCOME:**

On the completion of the course the Student will be able to

CO1: Helps the Student in knowing the significance of Transport sector laws and regulations in our Nation.

CO2: Will open the wide avenue of connecting various legislations of transport sector.

CO3: The Statute of Railways in this course briefs the Student about the extent of the Act, Its applicability and lacunae in implementation.

CO4: The Tribunals and its applicability will provide the sectors of research to the Student.

CO5: Discusses and also impart knowledge about specific International Convention related to this Act.

CO6: This Course will equip the Student with the required Professional Skills

TEXT/REFERENCE BOOKS

1. Gargi Rajvanshi- Transportation Law(2015).
2. Avtar Singh - Law of Carriage (Air, Land & Sea) 2015
3. G.R.Desai - Life insurance in India.
4. P.P. Bhatnagar - Transport in modern India.
5. M.D. Mathur Trail and transport in India

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

SAL1053	PENOLOGY AND VICTIMOLOGY	L	T	P	Credit	Total Marks
		4	1	0	4	100

COURSE OBJECTIVE:

- To understand basic concepts in penology Victimology.
- To encourage critical thinking on crime victims' place in the justice system.
- To understand historical trends in punishment, in and outside the community context and to explore alternative approaches to victimization and punishment.

UNIT 1 – PENOLOGY& THEORIES OF PUNISHMENT**15Hrs.**

Dimensions of Crime in India -Definition of penology-Theories of punishment-classical Hindu and Islamic approaches to punishment-Capital punishment-Law reforms proposals- Criminal Justice System

UNIT – 2 APPROACHES TO SENTENCING**17Hrs.**

Alternatives to imprisonment-probation-corrective labour-fine: collectives fines-reparation by the offender/ by the court- Parole: Nature- Authority for Granting Parole -The Probation of Offenders Act, 1958.

UNIT – 3 SENTENCING AND IMPRISONMENT**17Hrs.**

Sentencing: Types of sentences: Indian penal code and special laws-white collar crimes-pre-sentence hearing: summary punishment-habitual offender-plea bargaining

Imprisonment: The prison system-Rights of prisoners –State of jails in India today-classification of prisoners-open prisoners-judicial surveillance, basis, development, reforms- Group Counseling and Re-Socialization Programme.

UNIT – 4 THE POLICE SYSTEM**18Hrs.**

The Police System- Structural Organization of Police- Mode of Recruitment and Training- Powers and Duties of Police- Cr.P.C. and Other Laws- Constitutional Imperatives- Relationship Between Police and Prosecution- Liability of Police for Custodial Violence- Police and Public Relations-Police force in India-the role of police- functions of police

UNIT 5 – VICTIMOLOGY**18Hrs.**

Victims of crime- compensation to victims- under Crpc-under public law remedy-need for compensation-compensation and rehabilitation-compensation as a mode of punishment- constitutional perspective of compensation-Role of National Human Rights Commission.

Max.85Hrs.**COURSE OUTCOME:**

On completion of the course the Student will be able to

CO1: This course makes Student to familiarize with basic terms in Victimology and penology and describes historical developments in penology, with regards to the reasons for punishment.

CO2: Encourage critical thinking on crime victims place in the justice system.

CO3: Examines crime victims and patterns of punishment as complementary aspects of the criminal justice system, and explores their contributions to social perceptions of crime and justice.

CO4: Emphasize an idea of police system& prison system in India.

CO5: Revolve around Victimization and punishment as complimentary aspects of the criminal process, and their reciprocal effect on social perceptions.

CO6: This Course will equip the Student with the required Professional Skills

TEXT/REFERENCE BOOKS

1. Ahmed Siddique, Criminology: Problems and Perspective, Eastern Book Company, Lucknow, 2008.
2. N.Y. Paranjpe, Criminology and Penology,, Central Law Publications, Allahabad, 2008.
3. ParkashTalwar, Victimology, Isha Books, Delhi, 2006.
4. SumainRai, Law Relating Plea Bargaining, Orient Publishing Company, 2007.
5. Dr. S.S.Srivastava, Criminology, Penology &Victimology, 4th edn, 2012,Repr.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks:100****Exam Duration: 3 Hrs.**

PART A: 6 Questions to be answered out of 8 questions and each question carries 5 Marks

30 Marks

PART B: 4 questions to be answered out of 8 questions (**Internal Choice**) and each question carries 10 Marks

40 Marks

PART C: 2 Questions/Problems to be answered out of 4 questions/problems and each carries 15 marks

30 Marks

OPEN ELECTIVES

SALA4001	INTELLECTUAL PROPERTY LAW	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE:

- This course is intended to introduce the different categories of Intellectual Property, the minimum standard to identify the items of protection. Bundle of rights conferred to the right holder and remedies available in the case of infringement are also examined.

UNIT 1 – INTRODUCTION**9Hrs**

Meaning and concept of intellectual Property and the need for protection – The world Intellectual property Organization (WIPO) Convention – Origin and functions of World Trade Organisation (WTO) – Trade Related Intellectual property Rights (TRIPS) Agreement of WTO and its effects on Intellectual Property law in India; Dispute Settlement Mechanism.

UNIT 2 – COPYRIGHT ACT**9Hrs**

The Copyright Act (1957) and recent amendments-works in which copyright subsist-Authorship and Ownership-Different Rights-Registration of copyright-Term of copyright-Administration of copyright law-Performer's rights-Broadcaster's rights-Collective administration of copyrights-Moral rights-Copyright infringements-Remedies-Composition of Copyright Board.

UNIT 3 – TRADEMARK & DESIGNS ACT**9Hrs**

The Trade Mark Act (1999), object, definitions, salient features- Distinctiveness, deceptive similarity- Assignment and transmission -Registration: Procedure-Term-Effects-Grounds for refusal- Powers and functions of Registrar- collective marks-certification marks-Trade mark agents – Appellate board – Infringement action, passing off action –Well known marks-The designs Act 2000; definitions, registration of designs, copyright in registered designs, piracy of registered designs, remedies, powers and duties of Controller – Semi conductor integrated circuit layout-Trade secrets.

UNIT 4 – LAW OF PATENTS**9Hrs**

The Patents Act (1970):object definitions, salient features-Invention: patentable and non- patentable inventions-product and process patents- -Rights of patentees-assignment and transmission-term of patent-Registration-opposition to grant of patent, anticipation- Revocation of patents- Compulsory licences- Exclusive marketing rights-Infringement- exclusive marketing rights- Patent office and power of Controller, patents of addition-Patenting of biotechnology-Nanotechnology.

UNIT 5 – FARMERS AND BREEDERS RIGHT & GEOGRAPHICAL INDICATION**9Hrs**

The Protection of Plant Varieties And Farmers' Rights Act, 2001: object definitions, salient features The Geographical Indications Of Goods (Registration And Protection) Act, 1999- object definitions, salient features.

Max. 45 Hours**COURSE OUTCOME:**

CO1: The course is designed to introduce fundamental aspects of Intellectual property Rights.

CO2: The course introduces all aspects of the IPR Acts.

CO3: The course is intended to explain the basic principles of patents, trademarks, geographical designs, industrial designs, and copyright.

CO4: The course follows an international perspective and examines the international IP legal regime rather than focusing solely or predominantly on the national framework.

CO5: This course revolves around the protection of plant varieties and farmers right act.

CO6: This Course will equip the students with the required Professional Skills.

TEXT / REFERENCE BOOKS

- V.K. Ahuja, Law Relating to Intellectual Property Law, Lexis Nexis, 2nd ed., 2013.
- N.S. Gopalakrishnan & T.G. Ajitha, Principles of Intellectual Property, Eastern Book Company, 2nd ed., 2014.
- B.L. Wadhwa, Law Relating to Intellectual Property, Universal Law Publishing, 5th ed., 2014.
- S. Narayan, Intellectual Property Law in India, Gogia Law Agency, Hyderabad, 3rd ed., 2005.
- Holyoak & Torremans, Intellectual Property Law, Oxford University Press, New York, 2010.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SAEA4001	FUNDAMENTALS OF AEROSPACE TECHNOLOGY	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES:

The aim of the course is to:

- Understand the concepts of flight vehicles.
- Evaluate the performance of air vehicles in International standard atmosphere.
- Know the basic functions of aircraft systems and instruments.
- Discuss about the structural, aerodynamics and propulsive aspects of airplanes.

UNIT 1 – HISTORY OF FLIGHTS**9Hrs**

Early flying vehicles – hot air balloons – heavier than air flying machines- ornithopters – early airplanes by Wright brothers, biplanes and monoplanes, developments in aerodynamics, materials, structures and propulsion over the years.

UNIT 2 – BASICS OF AERODYNAMICS AND FLIGHT MECHANICS**9Hrs**

Physical properties and structure of the atmosphere, temperature, pressure and altitude relationships, Equations of motions, evolution of lift, drag and moment, aerofoil theory, Mach number, Reynolds number flight maneuvers.

UNIT 3 – AIRCRAFT CONFIGURATIONS, SYSTEMS AND INSTRUMENTS**9Hrs**

Classifications of flight vehicles, Components of an airplane and their functions, Conventional control, powered control, basic instruments for flying – typical systems for control actuation.

UNIT 4 – AIRFRAMES AND MATERIALS**9Hrs**

General types of construction, monocoque, semi-monocoque and geodesic constructions, typical wing and fuselage structure. Metallic and non-metallic materials, use of aluminium alloy, titanium, stainless steel and composite materials. stresses and strains, Hooke's law, stress – strain diagrams, elastic constants.

UNIT 5 – PROPULSION SYSTEMS**9Hrs**

Basic ideas about piston, turboprop and jet engines, use of propeller and jets for thrust production, comparative merits, principles of operation of rocket, types of rockets and typical applications, exploration into space.

COURSE OUTCOMES:

At the end of the course, the students will be able to:

- CO1:** Recall history and evolution of air vehicles
CO2: Compare the flight performance with variations of earth atmospheric properties
CO3: Understand the working of aircraft systems and instruments.
CO4: Recognize the functions of major aircraft components.
CO5: Understand the construction of structural components and suitable materials for it
CO6: Study of propulsion system

TEXT/REFERENCE BOOKS:

1. Kermode, A.C., 'Flight without Formulae', McGraw Hill, 2010.
2. Shevell, R.S., Fundamentals of flights, Pearson education 2013.
3. Anderson, J.D., Introduction to Flight, McGraw Hill, 2014.
4. McKinley, J.L. and R.D. Bent, Aircraft Power Plants, McGraw Hill 1993.
5. Pallet, E.H.J. Aircraft Instruments & Principles, Pitman & Co 1933.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBAA4001	FUNDAMENTALS OF MANAGEMENT	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES:

- To gain knowledge about the fundamentals of management
- To understand the management functions in an organisation
- To apply management concepts in decision making

UNIT 1 – INTRODUCTION TO MANAGEMENT**9 Hrs.**

Management – Definition, Nature, Purpose and functions, Science / Art – Evolution of Management thought – Scientific and Administrative Management – Approaches to Management – Functions, Roles of a Manager – Management and Society – Social Responsibility and Ethics – Trends and Challenges of Management in Global Scenario.

UNIT 2 – PLANNING, DECISION MAKING**9 Hrs.**

Nature, Purpose of Planning – Types of Plans – Steps in Planning – Objectives Management by Objectives (MBO) – Strategies – Kinds of strategies – TOWS Matrix, Business Portfolio Matrix and Porter's Generic Strategies – Policies – Decision Making – Process – Rational Decision Making.

UNIT 3 – ORGANIZING AND DEPARTMENTATION**9 Hrs.**

Nature, Purpose of organizing – Organization Structure – Formal And Informal Organization – Span of Control – Departmentation – Line and Staff Authority – Authority and Power – Decentralization – Delegation – Effective organization and Organization Culture.

UNIT 4 – STAFFING AND LEADING**9 Hrs.**

Staffing – Selection and Recruitment – Orientating and Socializing New Employees – Performance Appraisal – Career Development – Career Strategies – Manager Development Process and Training – Managing Change – Organization Conflict – Motivation and Motivators – Motivation Theories – Quality of Work Life – Job Enrichment – Leadership Styles and Theories – Communication – Process and Barriers to Effective Communication.

UNIT 5 – CONTROLLING AND REPORTING**9 Hrs.**

Control Process – Types of Control – Management by Exception – Control Techniques – Budgetary and Non-Budgetary Control Techniques – Budgeting – Types of Budget – Non Budgetary Control Devices – Operational Audit, Gantt Chart, PERT – Direct and Preventive Control – Reporting.

COURSE OUTCOME:

On the successful completion of this course, the students will be able to

- CO1:** Describe the fundamentals and framework of management
CO2: Understand the functions of management
CO3: Apply the concepts and develop key competencies for managing human resources
CO4: Analyze appropriate management techniques for Controlling
CO5: Evaluate the various aspects of decision making and demonstrate critical thinking
CO6: Elaborate the importance of the budget and budgetary control techniques

TEXT / REFERENCE BOOKS:

1. Robins S.P. and Couiter M., Management, Prentice Hall India, 11th ed., 2012.
2. Harold Koontz and Heinz Weihrich, 'Essentials of Management' Tata McGraw Hill, 10th edition, 2015.
3. Stoner James A. F., Freeman. R. E and Gilbert. R. D, 'Management', Pearson Education, 6th edition, 2018
4. Griffin, R. W., 'Management', South-Western College Publication 11th Edition, 2012.
5. Gregory. G. D, Gerry. M. C and Alan. E, 'Strategic Management: Text and Cases' McGraw Hill, 8th Edition, 2018.
6. Tripathy. P. C & Reddy. P. N, 'Principles of Management', Tata McGraw Hill, 5th edition, 2012.
7. Gupta C.B., 'Management Theory and Practice', Sultan Chand and Sons, New Delhi 19th Revised and enlarged edition, 2017
8. Tulsian. P.C & Pandey. V, 'Business Organisation & Management', Pearson Education, 2011.
9. Joseph L. Massie, 'Essentials of Management', Pearson Education, 4th edition, 2016

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBAA4002	PRINCIPLES OF MANAGEMENT AND PROFESSIONAL ETHICS	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES:

- To gain knowledge about the fundamentals of management
- To understand the tools and techniques of the various aspects of management
- To apply management concepts in decision making
-

UNIT 1 – MANAGEMENT THEORIES**9 Hrs.**

Definition of management, science or art, manager vs entrepreneur; Types of managers – managerial roles and skills; Evolution of management-scientific, human relations, system and contingency approaches; Types of Business Organizations, sole proprietorship, partnership, company, public and private enterprises; Organization culture and environment; Current trends and issues in management.

UNIT 2 – PLANNING, DECISION MAKING AND ORGANISING**9 Hrs.**

Nature and purpose of Planning, types of Planning, objectives, setting objectives, policies, Strategic Management, Planning Tools and Techniques, Decision making steps & processes. Nature and purpose of Organizing, formal and informal organization, organization structure, types, line and staff authority, departmentalization, delegation of authority, centralization and Decentralization, job design,

UNIT 3 – STAFFING AND LEADING**9 Hrs.**

Human resource management, HR Planning, Recruitment selection, training & development, performance management, career planning and management, Directing individual and group behavior, motivation, motivation theories, motivational techniques, job satisfaction, job enrichment, leadership, types & theories of leadership, effective communication.

UNIT 4 – CONTROLLING AND REPORTING**9 Hrs.**

Controlling, system and process of controlling, budgetary and non-budget control technique, use of computer and IT in management control, productivity problems and management, control and performance, direct and preventive control, reporting.

UNIT 5 – VALUES AND ETHICS**9 Hrs.**

Human Values – Natural acceptance – Ethics – Definition- Objectives – Virtues – Challenges in the work place – Engineering ethics – Scope – Moral issues and judgment – Moral development theories – Engineers as responsible experimenters – Codes of ethics – Industrial standards – Global Issues: Environmental ethics- Computer ethics – Ethics and codes of business conduct in MNC.

COURSE OUTCOME:

On the successful completion of this course, the students will be able to

CO1: Describe the evolution and development of management concepts

CO2: Understand the functions of management

CO3: Apply the concepts and develop key competencies for managing human resources

CO4: Analyze appropriate management techniques for Controlling and Reporting.

CO5: Evaluate the various aspects of decision making and demonstrate critical thinking

CO6: Elaborate the importance of the ethical dimension in workplace

TEXT / REFERENCE BOOKS:

1. Robins S.P. and Couiter M, Management, Prentice Hall India, 11th ed., 2012.
2. Harold Koontz and Heinz Weihrich, 'Essentials of Management' Tata McGraw Hill, 10th edition, 2015.
3. Nagaraazan. R. S, 'A Text Book on Human Values and Ethics', New Age International Publishers, New Delhi, 2018.
4. Stoner James A. F., Freeman. R. E and Gilbert. R. D, 'Management', Pearson Education, 6th edition, 2018
5. Griffin, R. W., 'Management', South-Western College Publication 11th Edition, 2012.
6. Gregory. G. D, Gerry. M. C and Alan. E, 'Strategic Management: Text and Cases' McGraw Hill, 8th Edition, 2018.
7. Tripathy. P. C & Reddy. P. N, 'Principles of Management', Tata McGraw Hill, 5th edition, 2012.
8. Tulsian. P.C & Pandey. V, 'Business Organisation & Management', Pearson – Education, 2011.
9. Joseph L. Massie, 'Essentials of Management', Pearson Education, 4th edition, 2016
10. Harris Pritchard and Rabins, 'Engineering Ethics' Cengage Learning, New Delhi. 4th edition, 2014.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBTA4001	BIOLOGY FOR ENGINEERS	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES:

- To introduce the basic knowledge of biology which will enable students to integrate biology with varied engineering concepts.

UNIT 1 – EVOLUTION AND CLASSIFICATION**9 Hrs**

Darwinian evolution & molecular perspective; Introduction to phylogeny – Classification systems in biology, Five kingdom classification, major groups and principles of classification in each kingdom. Systematic and binomial system of nomenclature.

UNIT 2 – GENETICS**9 Hrs**

The cell concept, structure of prokaryotic, eukaryotic cells, plant cells and animal cells, Structure and function of cell membrane, cell organelles and their function. Tissues in animals and plants, Morphology, anatomy and functions. Concepts of alleles and genes, Mendelian Experiments, Cell cycle (Elementary Idea), mitosis and meiosis, techniques to study mitosis and meiosis.

UNIT 3 – BIOMOLECULES**9 Hrs**

Biomolecules – classification, salient features – biological significance – carbohydrates, proteins and amino acids – lipids and fats – nucleic acids – vitamins – Enzymes.

UNIT 4 BIOTECHNOLOGY**9 Hrs**

Transgenic plants and animals-stem cell and tissue engineering-bioreactors-biopharming-recombinant vaccines-cloning-drug discovery-biological neural networks – bioremediation – biofertilizer – biocontrol biofilters – biosensors – biopolymers-biomaterials – biochips – basic biomedical instrumentation.

UNIT 5 – MICROBIOLOGY**9 Hrs**

Brief history of microbiology, Types of microorganisms, Basic idea of domain bacteria, proteobacteria, non proteobacteria Gram positive and Gram negative bacteria, lichens, algae, protozoa, helminthes, viral structures, viral multiplication, Role of microorganisms in the production of industrial chemicals and pharmaceuticals.

COURSE OUTCOMES

CO1: Describe the major discoveries in biological sciences

CO2: To understand the types and structures of different types of biomolecules in living systems

CO3: Convey the classification of living beings and its structure and functions.

CO4: Analyze the processes of transcription and translation in both prokaryotes and eukaryotes at molecular level.

CO5: Understand the different classification of microorganism

CO6: Explain the importance of microorganism in industry

REFERENCES

1. Biology: A global approach: Campbell, N. A.; Reece, J. B.; Urry, Lisa; Cain, M, L.; Wasserman, S. A.; Minorsky, P. V.; Jackson, R. B. Pearson Education Ltd
2. Outlines of Biochemistry, Conn, E.E; Stumpf, P.K; Bruening, G; Doi, R.H., John Wiley and Sons
3. Principles of Biochemistry (V Edition), By Nelson, D. L.; and Cox, M. M.W.H. Freeman and Company
4. Molecular Genetics (Second edition), Stent, G. S.; and Calender, R.W.H. Freeman and company, Distributed by Satish Kumar Jain for CBS Publisher
5. Microbiology, Prescott, L.M J.P. Harley and C.A. Klein 1995. 2nd edition Wm, C. Brown Publishers

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBMA4001	NEUROLOGY	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE

- This course encompasses a scientific study of human nervous system.
- Includes different approaches to study the molecular, cellular, developmental, structural, functional, evolutionary, and medical aspects of nervous system

UNIT 1 – OVERVIEW OF NEUROLOGY**9Hrs.**

Introduction to Neurology, Neurons and Neuroglia, Neurotransmitters, Blood Brain Barrier, CSF

UNIT2 – NERVOUSSYSTEM**9Hrs.**

Nervous system: central nervous system, peripheral nervous system, autonomic nervous system; Structure, development and function of Nervous System, brain and Spinal cord, Cranial nerves, functional topography of brain

UNIT3 – ELECTRICALPROPERTIESOFNERVOUSSYSTEM**9Hrs.**

Electrolytes within our neurons; Ion channels, Local signaling, Signal propagation – Action potential, Synapse, Synaptic integration, Modulation of synaptic transmission, Nerve-Muscle interaction

UNIT4 – NEURALNETWORKS**9Hrs.**

Current flow in neurons, Introduction to electro diagnostic signals and their measurement, nerve conduction study, evoked potentials, EEG, Radioactive brain scanning, Angiography

UNIT5 – CHALLENGES**9Hrs.**

The Electrical study of nerve reflexes –F response, H reflex, Diagnosis of Pathology of Nervous system–Molecular and cellular mechanisms of Parkinson's, Huntington's, Stroke and Alzheimer's diseases.

Max. 45 Hours**COURSE OUTCOMES**

On completion of the course, student will be able to

CO1: understands the mechanism of how neurons process signals physiologically and electrochemically**CO2:** remembers the principles of pathology and diseases related to nervous system.**CO3:** Develops an understanding and appreciation of the interdisciplinary nature of neurology**CO4:** Apply the knowledge of neurology to other areas of their studies and to their everyday life**CO5:** interprets the insight basic brain structure and function reaching from the molecular to systems level.**CO6:** Understands how EMG testing is indicated, how the testing is performed, and limitations of use.**TEXT / REFERENCE BOOKS**

1. Richard S Snell, Clinical Neuro Anatomy, Lippincott Williams & Wilkins, 2006
2. W.F Ganong Review of Medical Physiology, McGrawHill Professional, 21st Edition, 2013
3. A Krishnamurti Notes on Nervous System, Janagam Offset Printers, 2009
4. Eric R Sandel, Principles of Neural Science, Elsevier, 4th Edition, 2012
5. U.K. Misra, Clinical neurophysiology, Elsevier Health Science, 2006
6. James D Fix, Neuroanatomy, William and Wilkins, 2nd Edition, 2005

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBMA4002	MODELLING OF PHYSIOLOGICAL SYSTEMS	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES

- The student will be able to understand the concept of abstraction of living systems as models and apply the same to physiological processes in living systems.

UNIT 1 – PHYSIOLOGICAL COMPLEXITY AND THE NEED FOR MODELS**9Hrs**

Introduction – Complexity – Feedback – Negative Feedback – Positive Feedback – Inherent Feedback – Combining Negative and Positive Feedback – Derivative and Integral Feedback – Effects of Feedback on the Complexity of System Dynamics Control in Physiological Systems – General Features – Enzymes – Hormones – Hierarchy – Redundancy – Function and Behavior and their Measurement.

UNIT 2 – MODELS AND THE MODELING PROCESS**9Hrs**

Introduction – The Purpose of Modeling – The Modeling Process – Model Formulation – Model Identification – Model Validation – Model Simulation – The Basis of Data Modeling – Approaches to Data Modeling – Modeling a Single Variable Occurring Spontaneously – Temperature 38 – Urine Potassium – Gastro-intestinal Rhythms – Hormonal Time Series – Modeling a Single Variable in Response to a Perturbation – Glucose Home Monitoring Data – Response to Drug Therapy

UNIT 3 – MODELING THE SYSTEM**9Hrs**

Static Models – Linear Modeling – The Wind kessel Circulatory Model – Elimination from a Single Compartment – Gas Exchange – The Dynamics of a Swinging Limb – A Model of Glucose Regulation – Distributed Modeling – Blood-tissue Exchange – Hepatic Removal of Materials – Renal Medulla – Nonlinear Modeling – Baroreceptors – Central Nervous Control of Heart Rate – Compartmental Modeling – Insulin Receptor Regulation – Insulin Action Modeling – Thyroid Hormone Regulation – Modeling the Chemical Control of Breathing Time-varying Modeling

UNIT 4 – Non- linear dynamics**9Hrs**

Gene lets and synthetic biochemical circuits – Transcriptional oscillators – Synthetic biochemical dynamic circuits – Non – linear dynamics – The brain and the heart Electrophysiology in human cortex – Multiscale network organization – Neuronal oscillations – Cardiac electrophysiology

Unit –5 – CASE STUDIES**9Hrs**

A Sum of Exponentials Tracer Disappearance Model – Blood Flow Modeling – Cerebral Glucose Modeling – Models of the Ligand-Receptor System – A Simulation Model of the Glucose-Insulin System – Model Formulation – A Model of Insulin Control – Bayesian Estimation

Max. 45 Hours**COURSE OUTCOMES**

The student will be able –

- CO1:** Understands the living system from a holistic perspective.
- CO2:** Remembers the electrophysiological studies in clinical studies
- CO3:** Appreciate the complexity in living systems and understand the need to model.
- CO4:** Interprets the process of systematic modeling.
- CO5:** Analyse the purpose behind and logic and applications of the existing models.
- CO6:** Compares the Model in new cases and hypothetical scenarios.

References

- Cobelli, Claudio, and Ewart R. Carson. Introduction to Modeling in Physiology and Medicine, Elsevier Science & Technology, 2008.
- Multiscale Analysis and Nonlinear Dynamics: From Genes to the Brain, edited by Preseason, Misha Meyer, John Wiley & Sons, Incorporated, 2013.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBMA4003	DRUG DELIVERY SYSTEM	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE

- To educate the student on drug delivery system which would enable a comprehensive analysis in drug delivery.
- To explore the efficacy and safe release of the drug into host using implantable nano materials.

UNIT 1 – SUSTAINED AND CONTROLLED DRUG DELIVERY**9Hrs.**

Introduction, properties of drugs, Pharmacokinetic properties of drugs, sustained release formulations – concept, physico-chemical biological properties of drugs, advantages and disadvantages – controlled drug delivery systems – automatically controlled drug delivery systems and their biomedical applications.

UNIT 2 – POLYMERS & TARGETED DRUG DELIVERY SYSTEMS**9Hrs**

Polymers used in drug delivery systems – modules, classification, characterization, advantages and disadvantages of polymer, targeted drug delivery systems – concepts – nanoparticles – liposomes, microspheres – hydrogels

UNIT 3 – TRANSDERMAL DRUG DELIVERY SYSTEMS**9Hrs.**

Transdermal penetration of drugs – formulation – addition – polymers in transdermal drug delivery system – iontophoresis – transdermal controlled release products and devices

UNIT 4 – IMPLANTABLE DRUG DELIVERY SYSTEMS**9Hrs.**

Implantable micro-pump systems – peristaltic micro pump – osmotic micro pump – diaphragm micro pump – Fluorocarbon propellant driven micro pump – solenoid driver reciprocate micro pump – programmable implanted drug administrative device (DAD)

UNIT 5 – SITE SPECIFIC DRUG DELIVERY SYSTEMS**9Hrs.**

Development in insulin therapy using biomedical controlled drug delivery systems – drug delivery using monoclonal antibodies – role of biosensors and transducer in diagnostic

Max. 45 Hours**COURSE OUTCOMES**

On completion of the course, student will be able to

CO1: understands the design of drug delivery systems for various routes of administration.

CO2: explains the techniques used in the development of drug delivery systems.

CO3: Discuss the current trends in drug targeting, biotechnology products and modified release drug delivery

CO4: Identify the technological and documented problems with the development of drug delivery systems.

CO5: analyze the release of various drugs using sensors and monoclonal antibodies.

CO6: compares the cost effective strategy for development of new dosage forms

TEXT / REFERENCE BOOKS

- Vyas S.P. Khar RK Targeted and controlled drug delivery Novel Carrier System CBSPD, 2006.
- Anya M Hillery et al Drug delivery and targeting CRC press, 2010
- Robinson R Robinson Conventional drug delivery systems CRC press, 2004

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBMA4004	FUNDAMENTALS OF MECHATRONICS	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES:

- To create a strong base on the various sensors and transducers in mechanical system.
- To learn interdisciplinary applications of Electronics, Electrical, Mechanical and Computer Systems for the Control of Mechanical and Electronic Systems
- To design control system for computer application like CNC

UNIT 1 – INTRODUCTION**9 Hrs.**

Mechatronics: Definition & Key Issues – Evolution – Elements – Mechatronics Approach to Modern Engineering, Industrial design and safety Design.

UNIT 2 – SENSORS AND TRANSDUCERS**9 Hrs**

Introduction and background, difference between transducer and sensor, transducers types, transduction principle, photoelectric transducers- thermistors, thermodevices, thermocouple, inductive transducers capacitive transducers, piezoelectric transducers, piezoelectric transducers. Hall Effect transducers, Fiber optic transducers, Signal Processing – Data Display

UNIT 3 – ACTUATION SYSTEMS**9 Hrs**

Introduction to Mechanical Types and Electrical Types – Pneumatic & Hydraulic Systems – Applications – Selection of Actuators, Kinematics of robot manipulator links.

UNIT 4 – DIGITAL AND CONTROL SYSTEMS**9 Hrs**

Digital logic neuron system, Types of Controllers – Programmable Logic Controllers – applications – ladder diagrams – Microprocessor Applications in Mechatronics: Temperature measurement system, Domestic washing machine – Programming Interfacing – Computer Applications: CNC drilling machine

UNIT 5 – RECENT ADVANCES**9 Hrs**

Manufacturing Mechatronics – Automobile Mechatronics – Medical Mechatronics – Office Automation – Case Studies

Max.45 Hrs**COURSE OUTCOMES:**

CO1: Understands the approach of Mechatronics to engineering concepts

CO2: Classify the different types of sensors, transducers

CO3: Explains the actuator and use of robot kinematics.

CO4: Distinguish the different control and interfacing techniques.

CO5: Analyses the applications of mechatronics in the fields of automobile, robotics, medicine.

CO6: Compares the design for mechatronics for industrial application

TEXT / REFERENCE BOOKS

1. Bolton. W "Mechatronics: Electronic Control System for Mechanical & Electrical Engineering", 2nd Edition Pearson Education, 2004.
2. Ramachandran. K.P, VijayaRaghavan. G.K, Mechatronics, A.R.S. Publications, Second Edition, 2008.
3. Bradley.D.A, Dawson.D, Burd. N.C, Loader. A.J "Mechatronics: Electronics in Products and Processes" Nelson Publisher, 2004.
4. Michael B. Hstand& David G. Alciators, "Introduction to Mechatronics & Measurement systems", McGraw- Hill International Editions, 1998
5. Dan Neculescu, "Mechatronics", Pearson Education, 2005. Bishop, Robert H, "Mechatronics Hand book", CRC Press, 2002.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBMA4005	VIRTUALITY AND AUGMENTED REALITY	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES

- To understand virtual reality, augmented reality and using them to build Biomedical engineering applications
- To know the intricacies of these platform to develop PDA applications with better optimality

UNIT 1 – INTRODUCTION**9 Hrs**

The three I's of virtual reality-commercial VR technology and the five classic components of a VR system – Input Devices: (Trackers, Navigation, and Gesture Interfaces): Three-dimensional position trackers, navigation and manipulation-interfaces and gesture interfaces-Output Devices: Graphics displays-sound displays & haptic feedback.

UNIT 2 – VR DEVELOPMENT PROCESS**9 Hrs**

Geometric modeling – kinematics modeling- physical modeling – behaviour modeling – model Management.

UNIT 3 – CONTENT CREATION CONSIDERATIONS FOR VR**9 Hrs**

Methodology and terminology-user performance studies-VR health and safety issues-Usability of virtual reality system- cyber sickness -side effects of exposures to virtual reality environment

UNIT 4 – VR ON THE WEB & VR ON THE MOBILE**9 Hrs**

JS-pros and cons-building blocks (WebVR, WebGL, Three.js, device orientation events) frameworks (A-frame, React VR)-Google VR for Android-Scripts, mobile device configuration, building to android-cameras and interaction-teleporting-spatial audio-Assessing human parameters-device development and drivers-Design Haptics

UNIT 5 – APPLICATIONS**9 Hrs**

Medical applications-military applications-robotics applications- Advanced Real time Tracking other applications-games, movies, simulations, therapy

Max: 45 Hours**COURSE OUTCOMES:**

At the end of the course, the student should be able to:

CO1: understands the system or process to meet given specifications with realistic engineering constraints.

CO2: Identify problem statements and function as a member of an engineering design team.

CO3: explores the technical resources

CO4: Propose technical documents and give technical oral presentations related to design mini project results.

CO5: Examine the content and mobile applications of VR.

CO6: Design various medical applications based on augmented reality.

TEXT/REFERENCE BOOKS:

- C. Burdea & Philippe Coiffet, —Virtual Reality TechnologyII, Second Edition, Gregory, John Wiley & Sons, Inc.,2008
- Jason Jerald. 2015. The VR Book: Human-Centred Design for Virtual Reality. Association for Computing Machinery and Morgan & Claypool, New York, NY, USA,. 2015.
- Augmented Reality: Principles and Practice (Usability) by Dieter Schmalstieg& Tobias Hollerer, Pearson Education (US), Addison-Wesley Educational Publishers Inc, New Jersey, United States, 2016.
- Learning Virtual Reality: Developing Immersive Experiences and Applications for Desktop, Web, and Mobile, Tony Parisi, O'Reilly Media; 1 edition, 2015.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBMA4006	MEDICAL OPTICS AND LASER APPLICATIONS	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES

- To introduce the concept of optical properties of tissues and their measurements
- To have knowledge on Lasers used in medicine
- To analyse the applications of Lasers for diagnosis, surgery and therapy

UNIT 1 – OPTICAL PROPERTIES**9 Hrs**

Refraction, Scattering, Absorption, Instrumentation for absorption, Scattering and emission measurements, Light transport inside the tissue, Tissue properties Laser tissue Interaction-Chemical-Thermal Electromechanical – Photoablation processes.

UNIT 2 – LASERS USED IN MEDICINE**9 hrs**

Types of laser, construction and working principle of solid state laser, Atomic laser, Molecular laser, Liquid dye laser, Diode laser, Solid state dye laser

UNIT 3 – SURGICAL APPLICATIONS OF LASERS**9 Hrs.**

Lasers in ophthalmology- Dermatology – Types of lasers used in dermatology – Dentistry- Types of Dental lasers – Urology – Surgical therapy in urology – Otolaryngology – Tissue welding – Specifications

UNIT 4 – NON THERMAL DIAGNOSTIC APPLICATIONS**9 Hrs.**

Optical coherence tomography, Elastography, Laser Induced Fluorescence (LIF)-Imaging, FLIM Raman Spectroscopy and Imaging, FLIM – Holographic and speckle application of lasers in biology and medicine.

UNIT 5 – THERAPEUTIC APPLICATIONS**9 Hrs.**

Phototherapy, Photodynamic therapy (PDT) – Principle and mechanism – Oncological and non oncological applications of PDT – Biostimulation effect – applications-Laser Safety Procedures.

COURSE OUTCOMES

On completion of the course, student will be able to

CO1: Understand the basic concepts of optical properties and their interaction with the tissues

CO2: Acquire knowledge about the various kinds of Lasers used in medicine

CO3: Apply the lasers techniques in Surgery

CO4: Analyse the application of Laser in diagnosis

CO5: Explore the Laser techniques used in therapy

CO6: Identify the use of Lasers that can be used for specific medical application

TEXT/REFERENCE BOOKS:

1. Abraham Katzir, Lasers and Optical Fibers in Medicine, Academic Press Edition, 1998.
2. Tuan VoDirh, Biomedical Photonics – Handbook, CRC Press, Boca Raton, 2003.
3. G.David Baxter, Therapeutic Lasers – Theory and practice, Churchill Livingstone Publications Edition- 2001.
4. Helena Jelinkova, “Lasers for medical applications: Diagnostics, Therapy and Surgery”, Woodhead Publishing, 1st edition, 2013.
5. MarkolfH.Neimz, “Laser tissue interactions-Fundamentals and applications”, Springer, 3rd edition, 2014.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.**

PART A: 10 questions of 2 marks each – No choice

20 Marks

PART B: 2 questions from each unit of internal choice; each carrying 16 marks

80 Marks

SBMA4007	FORENSIC SCIENCE	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE

- To provide a brief and basic knowledge to understand the forensic science particularly to the biomedical student.
- To provide reasonable coverage of subject to know the basic concepts of the science so that the student can implement their knowledge in higher studies.

UNIT 1 – ANIMAL CELL STRUCTURE**9Hrs.**

Cell and its inclusions–structure and function, Blood and Body fluids–forensic significance– morphological identification of bones–forensic importance.

UNIT 2 – BLOTTING TECHNIQUES**9Hrs.**

Identification of Human remains – methods of reconstruction – personal identifying the living and the dead – DNA fingerprinting–RFLP, RAPD, PCR –Blotting types (Southern, Northern and Western) – forensic importance.

UNIT 3 – FINGER PRINT**9Hrs.**

Finger Prints–importance of plastic and visible fingerprints–transfer methods of fingerprints–fingerprint patterns – their classification – ridge characteristics –Biometric-Iris, facial characterization- foot prints – importance – photography of footprints–sunken and surface footprints, gait patterns and their characteristics.

UNIT 4 – TOXINS**9Hrs.**

Forensic toxicology – poison and drugs, classifications, Source, nature, Actions and diagnosis of poisoning cases, post mortem findings and examination, treatment of poisoning cases, medico legal aspects; corrosive agents, irritants.

UNIT 5 – SEROLOGICAL AND CHROMOSOMAL TECHNIQUES**9Hrs.**

Serology–basic principles of serology– concept to antigen and antibody and their reaction–application of serology in forensic science. Karyo typing–banding patterns–chromosomal abnormalities–sex determination–barr bodies – sex linked inheritance.

Max. 45 Hours**COURSE OUTCOMES**

On completion of course, student will be able to

CO1: understands the basic knowledge about forensic importance human cell and body fluids.

CO2: analyses the molecular characterization of DNA for the identification of human beings.

CO3: Recognize the forensic importance of finger print and foot print for legal proceedings.

CO4: Demonstrate information about medico legal aspects of different types of poisoning cases.

CO5: remembers to identify unnatural causes of death based on immunological techniques.

CO6: Summarizes the karyo typing technique to identify chromosomal abnormality.

TEXT / REFERENCE BOOKS

- DeRobertis, General Cytology, Saunders, 6th Edition, 2008
- Apurba Nandy, Principles of Forensic Medicine, New Central Book Agency, 2nd Edition, 2001
- M.Krawczak and J.Schmidtke, DNA Finger printing, BIOS Scientific Publisher, 2nd Edition, 2000
- Richard Saferstein Ed, Forensic Science Handbook, Prentice Hall, 2010
- Narayan Reddy, The Essential of Forensic Medicine and Toxicology, 31st Edition, 2012.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.**

PART A: 10 questions of 2 marks each – No choice

20 Marks

PART B: 2 questions from each unit of internal choice; each carrying 16 marks

80 Marks

SBMA4008	ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE

- To impart adequate knowledge on the representation and structures of artificial intelligence and to study in depth about the expert systems and its tools

UNIT 1 – AI & INTERNAL REPRESENTATION**9Hrs.**

The AI problem–What is AI technology –Level of the Model–Criteria for Success problems, Problem Spaces & Searches & Heuristic Search Technology Problem as a State Space Search–Production Systems– Production System Characteristics–Generate&Test–HillClimbing–BestFirstSearch–ConstraintSatisfaction– Means End Analysis.

UNIT 2 – KNOWLEDGE REPRESENTATION**9Hrs.**

Issues in Knowledge Representation –Using Predicate Logic–Representing Simple Facts in Logic, Representing Instance & Is a Relationship– Computable Functions & I Predicates– Representing Knowledge Using Rules: Declarative Knowledge–Forward Vs. Backward Reasoning.

UNIT 3 – SLOT & FILLER STRUCTURES**9Hrs.**

Weak Slot & Filler – Semantic Nets – Frames Strong & filler Structures – Scripts – CYC-CYCL

UNIT 4 – EXPERT SYSTEMS**9Hrs.**

What are Expert Systems –Knowledge Representation in Expert Systems–Symbolic Computation–Rule based Systems

UNIT 5 – TOOLS FOR BUILDING EXPERT SYSTEMS**9Hrs.**

Using Domain Knowledge – Knowledge Acquisition – Design for Explanation–Black Board Architecture– Truth Maintenance Systems–Machine Learning–Case based Reasoning

Max. 45 Hours**COURSE OUTCOME**

CO1: Understands the basics of Artificial intelligence and the various searching techniques

CO2: analyses the knowledge representation through forward and backward chaining techniques

CO3: applies and articulate the knowledge over the design of semantic nets

CO4: explains the various expert systems by applying appropriate rule base Peter Jackson, Introduction to Expert Systems, 3rd Edition, Addison Wesley, 1st Indian Reprint

CO5: evaluates the architecture and frameworks of Truth Maintenance systems through machine Learning algorithms

CO6: Creates the design of real time AI and expert systems through various case studies

TEXT / REFERENCE BOOKS

- Elaine Rich, Kevin Knight, Artificial Intelligence, 2nd Edition, Tata McGrawHill, 1992.
at 2000

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SBMA4009	HUMAN FACTORS IN ENGINEERING AND DESIGN	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE

- Introduce the fundamental terms and concepts of human factors
- Learn anthropometric principles and optimize human well-being and overall performance.

UNIT 1 – INTRODUCTION**9Hrs**

Introduction to human factors engineering – relevance of ergonomics. Process of seeing-visual capabilities-factors affecting visual acuity and contrast sensitivity -human factor aspects of hard copy text and computer screen text, factors in selecting graphic representations symbols, qualitative visual displays and representational displays-process of hearing-principles of auditory displays.

UNIT 2 – MUSCLE PHYSIOLOGY**9 Hrs**

Muscle physiology-muscle metabolism-respiratory response joint motion study-measure of physiological in-efficiency and energy consumption-work rest cycles-aspects of manual material handling (MMH). Bio-mechanical recommended limits of MMH.

UNIT 3 – CONTROLS AND COMPABILITY**9 Hrs**

Spatial compatibility -physical arrangement of displays and controls- movement capability – rotary controls and rotor displays movement of displays-orientation of the operator and movement relationships-control orders and control responses human limitations in tracking task.

UNIT 4 – ENVIRONMENTAL CONDITIONS & HUMAN MACHINE INTERFACE**9Hrs**

Illumination, climate, noise, motion, sound, vibration, human system modeling, Human Output And Control, material handling, motor skill, human control of systems, controls and data entry devices, hand tools and devices

UNIT 5 – ANTHROPOMETRY**9 Hrs**

Anthropometry- anthropometric design principles-work space envelope-factors in design of workspace surfaces-principles of seat design-principles of control panel organization. Classification of human errors-dealing with human errors - theories of accident causes – reducing accidents by altering behaviour.

Max. 45 Hours**COURSE OUTCOMES:**

At the end of the course, the student should be able to:

CO 1: Identify the problems in posture and work efficiency

CO2: Classify the workspace and related systems

CO3: Apply signal processing techniques for analysis and feature extraction.

CO4: Analyze the anthropometric concepts to human system and environment.

CO5: Suggest practices to avoid errors & accidents in workspace.

CO6: Create instrumentation techniques for development of user friendly systems

TEXT/REFERENCE BOOKS

1. Mark S. Sanders & Ernest J. McCormic, Human Factors in Engineering and Design, Mc-Graw Hill international Edition, 2003.
2. Christopher D. Wickens, Introduction to Human Factors Engineering, Prentice Hall; 2nd edition, 2003
3. Terence S. Andre, Aaron W. Schopper, Human Factors Engineering in System Design, British Columbia Teacher, 1997.
4. 3 Wesley E. Woodson, Human Factors Design Handbook, McGraw-Hill Professional; 2nd edition, 1992

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.**

PART A: 10 questions of 2 marks each – No choice

20 Marks

PART B: 2 questions from each unit of internal choice; each carrying 16 marks

80 Marks

SCHA4001	CORROSION ENGINEERING	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE:

- To provide fundamental understanding of aspects of electrochemistry and material science relevant to corrosion phenomena, prevention and remediation of corrosion.

UNIT 1 – INTRODUCTION**9 Hours**

Definition of Corrosion, corrosion damage, effect of material safety and reliability, classification of corrosion, expression of corrosion rate, electrochemical corrosion reaction, redox reaction, effect of oxygen, oxidizers. Effect of temperatures, concentration of chemicals on corrosion rate, Corrosion: direct & two stage attack, electrochemical attack.

UNIT 2 – TYPES OF CORROSION**9 Hours**

Effect of galvanic coupling, metallurgical aspects, metallic properties, ringworm corrosion, Principle of modern corrosion theory, Forms of corrosion, Uniform attack, galvanic corrosion, crevice corrosion, pitting inter-granular corrosion and hydrogen damage, higher corrosion resistance through proper selection of material.

UNIT 3 – CORROSION PROTECTIVE MEASURES**9 Hours**

Technologies of anodisation, enameling, rubber lining, glass lining, refractory lining, painting and other surface protective measures. Pourbaix Diagram For Iron, Magnesium And Aluminium.

UNIT 4 – APPLICATION OF CORROSION ENGINEERING**9 Hours**

Corrosion engineering in special applications such as material transport, pumping, filtration, condensation, boiling, riveting, welding, and high temperature environments. Surfacing Processes – CVD And PVD Processes, Sputter Coating. Laser and Ion Implantation, Arc Spray, Plasma Spray, Flame Spray, HVOF.

UNIT 5 – CORROSION TESTING AND MEASUREMENTS**9 Hours**

Corrosion testing, monitoring and inspection, laboratory corrosion test, accelerated chemical tests for studying different forms of corrosion, electrochemical methods of corrosion rate measurements by DC and AC methods, corrosion monitoring methods, chemical and electrochemical removal of corrosion products, cost factor in competitive corrosion prevention and inhibition techniques.

Max.45 Hours**COURSE OUTCOMES:**

CO1: Equipped with in an introduction to corrosion and its mechanism/types.

CO2: Enable to explain the different types of corrosion.

CO3: Inculcate the protective measures to overcome corrosion.

CO4: Development of advanced technological process for corrosion prevention.

CO5: Measurement and monitoring of corrosion mechanism.

CO6: Attribute in depth knowledge to solve industrial corrosion situations.

TEXT / REFERENCE BOOKS

- Uhlig, H.H. "Corrosion And Corrosion Control". 2nd edition, John Wiley & Sons. New York. USA. 2002.
- Butler, G. & Ison, H.C.K., Corrosion & its Prevention in Waters, 5th Edition, Leonard Hill, London, 2010.
- Maslow, P., Chemical Materials for Construction, 3rd Edition, Structures Publishing Co., 2001.
- Fontance, M.G. & Gtetrnee, N.D., Corrosion Engineering, 4th Edition, McGraw Hill, 2006.
- Rajagopalan, K.S. Corrosion and its Prevention, Chemical Engineering Education Development Centre, IIT Madras, 2005.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SCHA4002	ENERGY ENGINEERING	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE:

- To impart in depth understanding of the issues related with renewable energy and their development.

UNIT 1 – INTRODUCTION TO CONVENTIONAL & NON-CONVENTIONAL ENERGY SOURCES 9 Hours

Conventional energy sources; non-conventional energy sources; Energy sources, Coal, Oil, Natural gas, nuclear fuels, Hydro power advantages. Classification of fuels. Introduction to solar energy, Solar radiation and its measurement, solar constant, solar radiation at earth's surface, solar radiation geometry, solar radiation measurement. Applications, solar water heating, space heating, space cooling, solar thermal electric conversion. Agriculture and industrial process heating, solar distillation, solar pumping, solar cooking.

UNIT 2 – ENERGY FROM BIOMASS (BIO – ENERGY): INTRODUCTION 9 Hours

Biomass conversion Technologies. Wet processes, Dry processes. Biogas generation. Factors affecting biogas production or generation of gas. Classification of biogas plants. Advantages and disadvantages of floating drum plant. Advantages and disadvantages of fixed dome type plant. Types of biogas plants (KVIC model & Janata model). Selection of site for biogas plant.

UNIT 3 – BIO – ENERGY (THERMAL CONVERSION) AND ELECTRICAL CONDUCTION (MHD) 9 Hours

Methods of obtaining energy from biomass, Thermal gasification of biomass, Classification of biomass gasifiers, Chemistry of gasification process, Applications of the gasifiers. Magneto hydrodynamic generator, electrical conductivity and formation of MHD, performance comparison of open and closed cycle.

UNIT 4 – WIND ENERGY AND OTEC 9 Hours

Basic components of WECS (wind energy conversion system): Classification of WECS, Types of wind machines, horizontal axis machines, vertical axis machines. Applications of wind energy. Energy from the oceans: Introduction, Ocean thermal electric conversion (OTEC), Methods of ocean thermal electric power generation, Open cycle OTEC system, Closed or Anderson OTEC cycle, hybrid cycle. Application of energy from oceans.

UNIT 5 – FUEL CELLS BASICS AND WASTE HEAT RECOVERY 9 Hours

Fuel Cells, Difference between batteries and fuel cells, Components of fuel cells, Principle of working of fuel cells, Fuel cell types: Alkaline fuel cells. Polymer electrolyte fuel cells, Phosphoric acid fuel cells, Molten carbonate fuel cells, Solid oxide fuel cells, Applications. Co-generation- waste heat recovery and heat pump.

Max.45 Hours**COURSE OUTCOMES:**

The student will be able to

- CO1:** Understand various conventional and non- conventional energy sources.
- CO2:** Evaluate the advantages and disadvantages of various types of bio gas generators
- CO3:** Demonstrate the working principle of biomass gasifiers
- CO4:** Classify wind energy conversion systems
- CO5:** Compare the various methods of generating ocean thermal electric power
- CO6:** Demonstrate the working principle of various kinds of fuel cells.

TEXT / REFERENCE BOOKS

- Rai G.D., Non Conventional Energy Sources, 4th Edition, Khanna Publishers, New Delhi, 2004.
- Rao S.S., Energy Technology, 3rd Edition, Khanna Publishers, New Delhi, 2009
- R.K.Singal, Efficient utilization of energy, 2nd Edition, New Age International Publishers, New Delhi, 2017
- Christopher H. and Armsted H., Geothermal Energy, 3rd Edition, John Wiley, New York, 2000..

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SCHA4003	ENVIRONMENTAL IMPACT ASSESSMENT	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE:

- To provide a basic understanding of the EIA process as it is used for research, planning, project or program evaluation, monitoring, and regulatory enforcement and to introduce students to the legal, economic, administrative and technical process of preparing and/or evaluating environmental impact documents.

UNIT 1 – INTRODUCTION**9 Hours**

Historical development of Environmental Impact Assessment (EIA). EIA in Project Cycle. Legal and Regulatory aspects in India. Types and Limitations of EIA, Cross sectoral issues and terms of reference in EIA – Public Participation in EIA. EIA process.

UNIT 2 – METHODS FOR EIA**9 Hours**

Methods of EIA – Check lists – Matrices – Networks – Cost-benefit analysis – Analysis of alternatives.

UNIT 3 – PREDICTION AND ASSESSMENT**9 Hours**

Assessment of Impact on land, water, air, social & cultural activities and on flora & fauna- Mathematical models- Public participation – Rapid EIA.

UNIT 4 – ENVIRONMENTAL MANAGEMENT PLAN**9 Hours**

Environmental Management Plan – preparation, implementation and review – Mitigation and Rehabilitation Plans– Policy and guidelines for planning and monitoring programmes – Post project audit – Ethical and Quality aspects of Environmental Impact Assessment. ISO 14001.

UNIT 5 – CASE STUDIES**9 Hours**

EIA related to the following sectors – Infrastructure – construction and housing Mining – Industrial – Power plants – River valley and Hydroelectric – coastal projects.

Max.45 Hours

COURSE OUTCOMES:

The student will be able to

CO1: Overview of EIA methods and applications in a development perspective and Understand the EIA process in India

CO2: Carry Out Scoping And Screening Of Developmental Projects For Environmental And Social Assessments

CO3: Explain Different Methodologies For Environmental Impact Prediction And Assessment

CO4: Plan Environmental Impact Assessments And Environmental Management Plans

CO5: Evaluate Environmental Impact Assessment Reports.

CO6: Prepare the legal, economic, administrative and technical process of environmental impact documents.

TEXT / REFERENCE BOOKS

- Lawrence, D.P., Environmental Impact Assessment – Practical solutions to recurrent problems, Wiley-Interscience, New Jersey, 2003.
- Petts, J., Handbook of Environmental Impact Assessment, Vol., I and II, Blackwell Science, London, 2000.
- Y.Anjaneyulu: Environmental Impact Assessment Methodologies, BS Pub. 2002.
- Judith Petts, Handbook of Environmental Impact Assessment Vol. I & II, Blackwell Science, 2001.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks: 100

Exam Duration: 3 Hrs.

PART A: 10 questions of 2 marks each – No choice

20 Marks

PART B: 2 questions from each unit of internal choice; each carrying 16 marks

80 Marks

SCHA4004	ENVIRONMENTAL POLLUTION AND CONTROL	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE:

- To impart knowledge on the principles of various processes involved in the treatment of Industrial Pollutants such as Air, Water and Solid.

UNIT 1 – INTRODUCTION**9 Hours**

Environment definition -The biosphere – Hydrologic cycle –Nutrient cycles, pollution of air, water and soil. Air pollution laws and air quality standard. Water pollution quality standards and law. MINAS. Air pollution effect on human, plant and animal. Acid rain.

UNIT 2 – AIR POLLUTION AND ITS CONTROL**9 Hours**

Introduction-Sources of air pollution, Air pollution control methods-Source correction method, Cleaning of gaseous effluent, Particulate Emission control and equipment used in particulate emission control.

UNIT 3 – WATER POLLUTION AND ANALYSIS**9 Hours**

Origin of waste water, Types of waste pollutants and their effects, Waste water sampling and analysis, Determination of organic and inorganic matters, Physical characteristics, Bacteriological measurements.

UNIT 4 – NOISE POLLUTION**9 Hours**

Introduction, sources of noise pollution, Characteristics of sound, noise units, types of noise, effects and control of noise pollution. Radioactive pollution (RAP), Sources of RAP-Classification of its radiation effects on humans, plants and animals.

UNIT 5 – SOLID WASTE AND ITS MANAGEMENT**9 Hours**

Sources and Classification of solid waste, Public health aspects, Methods of collection, Disposal Methods, Potential methods of disposal of solid waste.

Max.45 Hours**COURSE OUTCOMES:**

CO1: Understand various cycles of environment and factors influencing the cycles.

CO2: Analyzing and controlling techniques of air pollution

CO3: Analyzing and controlling techniques of water pollution

CO4: Analyzing and controlling techniques of noise pollution

CO5: Understanding the solid waste management techniques

CO6: Ability to understand the key principles that support pollution prevention and control.

TEXT / REFERENCE BOOKS

- Kapoor B.S., Environmental Engineering, 4th Edition, Khanna Publishers, 2000.
- Rao C.S., Environmental Pollution Control Engineering, 2nd Edition, New Age International Publications, 2001.
- Jain P.C, & Monica Jain., Engineering Chemistry. 5th Edition, Dhanpat Rai Publications, 2002.
- Dara S.S., A Text Book of Engineering Chemistry, 3rd Edition, S.Chan& Co Ltd, 2006.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SCIA4001	DISASTER MANAGEMENT	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE

- To create an awareness towards natural and man-made disasters, disaster preparedness and disaster management

UNIT 1 – INTRODUCTION TO DISASTERS**12Hrs.**

Natural resources and its importance – understanding on fragile eco-system – characteristics and types of Disasters, Geological and Mountain Area Disasters: Earthquakes, Volcanic eruption, landslides-Wind and Water Related Natural Disaster: Floods, Droughts, Cyclones, Tsunamis-Man Made Disasters: Forest fires, Nuclear, Biological and Chemical disaster- Causes and effects- Disaster Profile of India-Disaster Management cycle.

UNIT2 – DISASTER PREPAREDNESS**8Hrs.**

Disaster management, mitigation and preparedness: Disaster Preparedness for People and Infrastructure, Community based Disaster Preparedness Plan – Roles & Responsibilities of Different Agencies and Government: Education, Communication&Training,Central,State,Districtandlocaladministration,ArmedForces,Police,Para Military Forces, International Agencies, and NGO's – Disaster Mitigation: Strategies, Emerging Trends, Mitigation management and Role of Team and Coordination.

UNIT3 – REHABILITATION, RECONSTRUCTION &RECOVERY**10Hrs.**

Damage assessment–Development of Physical and Economic Infrastructure-Nature of Damage to Houses and Infrastructure due to Disasters- Funding Arrangements for Reconstruction- Monitoring and Evaluation of Rehabilitation Work: Training, Rescue and planning the rescue activities and rehabilitations-Role of Government and NGO's-Participative Rehabilitation Process: Case Studies

UNIT4 – DISASTER RESPONSE AND DISASTER MANAGEMENT**8Hrs.**

Disaster Response Plan: Communication, Participation and Activation of Emergency Preparedness Plans, Search, Rescue, Evacuation and other logistic management – Human Behaviour and Response Management: Psychological Response and Psychological Rehabilitation, Trauma and Stress Management, rumour and Panic Management, Medical and Health Response to Different Disasters- Relief Measures: Minimum Standard of Relief, essential components of Relief Management, and funding.

UNIT5 – RISK ASSESSMENT AND VULNERABILITY ANALYSIS**7Hrs.**

Hazard, Risk and Vulnerability: Concept and Relationship: Disaster Risk Reduction, People Participation in Risk Assessment – Vulnerability Analysis, Vulnerability Identification – Vulnerability profile of India – Strategies for Survival-Social Infrastructure for Vulnerability Reduction.

Max. 45 Hours**COURSE OUTCOME:**

CO1: To know the fragile ecosystem and the types of the disasters

CO2: To acquire the preparedness and the responsibilities of different agencies on Disaster

CO3: To understand the rescue, rehabilitation and reconstruction process of disaster management

CO4: To understand the disaster response and relief measures

CO5: To understand the concepts of disaster risk

CO6: To understand the concepts of vulnerability reduction

TEXT / REFERENCE BOOKS

1. Bryant Edwards, "Natural Hazards", Cambridge University Press, U.K., 2005
2. Carter, W. Nick, "Disaster Management, Asian Development Bank", Manila, 1991.
3. Government of India, "Vulnerability Atlas of India", New Delhi, 1997.
4. Sahni, Pardeep et al. (eds.), "Disaster Mitigation Experiences and Reflections", Prentice Hall of India, New Delhi, 2002
5. Sahni, Pardeep and Ariyabandu, "Disaster risk reduction in South Asia", Philearning Pvt. Ltd., New Delhi, 2012.
6. Sharma, R.K. & Sharma, G., (ed), "Natural Disaster", APH Publishing Corporation, New Delhi, 2005.
7. Taori, K., "Disaster Management through Panchayati Raj", Concept Publishing Company, New Delhi, 2005.
8. NOAA Coastal Services Center, "Linking People Information and Technology",
9. "Risk and Vulnerability Assessment Tool", at, <http://www.csc.noaa.gov/rvat/criticalEdd.html>

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SCSA4001	R PROGRAMMING	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES

- Use R for statistical programming, computation, graphics, and modeling.
- Fit some basic types of statistical models.
- Be able to expand their knowledge of R on their own.
- To identify types of data analytics and data visualization tools.

UNIT 1 – INTRODUCTION TO R**9Hrs.**

History and fundamentals of R, Installation and use of R / R Studio / R Shiny, Installing R packages, R – Nuts and Bolts -Getting Data In and Out –Objects in R -Arrays,DataFrame and List -Control Structures and Functions- Loop Functions- Data Manipulation- String Operations- Matrix Operations.

UNIT 2 – R DATA INTERFACES**9Hrs.**

CSV Files, XSL files, XML files, Web Data- Data Preprocessing: Missing Values,Outliers,Principle Component Analysis – Data Visualization – Charts & Graphs-Pie Chart, Bar Chart, Box plot, Histogram, Line graph, Scatter Plot.

UNIT 3 – STATISTICAL MODELING IN R**9Hrs.**

Descriptive statistics-R Packages: Regression (MASS package) – Distribution (STATS package) – ANOVA – Time Series Analysis.

UNIT 4 – MACHINE LEARNING IN R**9Hrs.**

Classification: Decision Trees, Random Forest, SVM – Clustering:K-Means,Fuzzy – Association Rule Mining – Outlier Detection.

UNIT 5 – BUILDING R SHINY APPLICATION**9Hrs.**

User Interface,Control Widgets,Dynamic Output – R Hadoop:Installation of RHadoop-rhdfs –rmr2-Data Analysis with RHadoop- Case Study.

Max. 45 Hours**COURSE OUTCOMES**

On completion of the course the student will be able to

- CO1:** List motivation for learning R programming language
- CO2:** Access online resources for R and import new function packages into the R workspace
- CO3:** Import, review, manipulate and summarize data-sets in R
- CO4:** Explore data-sets to create testable hypotheses and identify appropriate statistical tests
- CO5:** Perform appropriate statistical tests using R
- CO6:** Create and edit visualizations with R

TEXT / REFERENCE BOOKS

1. Hands-On Programming with R: Write Your Own Functions and Simulations By Garrett Golemund, O'Reilly Media, Inc., 2014.
2. R for Data Science, Hadley Wickham, Garrett Golemund,"O'Reilly Media, Inc.2016.
3. Introduction to Statistics and Data Analysis – With Exercises, Solutions and Applications in R By Christian Heumann, Michael Schomaker and Shalabh, Springer, 2016
4. The R Software-Fundamentals of Programming and Statistical Analysis -Pierre Lafaye de Micheaux, Rémy Drouilhet, Benoit Lique, Springer 2013
5. A Beginner's Guide to R (Use R) By Alain F. Zuur, Elena N. Ieno, Erik H.W.G. Meesters, Springer 2009

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SCSA4002	5 G NETWORKS	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES

- To gain in depth knowledge of wireless networks for the future communication systems.
- To study the concepts of wireless networks for the future communication systems.
- To discuss 5G networks and its applications.

UNIT 1 – MULTI-GIGABIT WIRELESS NETWORKS**9Hrs.**

Next generation (5G) wireless technologies- Upper Gigahertz and Terahertz wireless communications: Millimeter wave networking – Directionality and beam forming- Mobility and signal blockage – IEEE 802.11ad (60 GHz WLAN) MAC and PHY overview: Visible light communication- High-speed networking using LEDs – IEEE 802.15.7 PHY and MAC overview Sensing through visible light- Visible light indoor localization and positioning

UNIT 2 – INDOOR LOCALIZATION AND RF SENSING**9Hrs.**

Smartphone localization – WiFi fingerprinting – protocols and challenges – Non-WiFi localization – Device-free sensing with radio frequency – Mining wireless PHY channel state information- Device- free localization and indoor human tracking – Activity and gesture recognition through RF.

UNIT 3 – LOW-POWER NETWORKING FILTERS**9Hrs.**

Backscatter communication – Radio Frequency Identification (RFID) technology overview – Energy harvesting tags and applications- Internet-of-Things (IoT) – IoT protocol overview – CoAP and MQTT – IPv6 networking in low-power PANs (6LoWPAN)

UNIT 4 – FUTURE MOBILE NETWORKS**9Hrs.**

Drone networking – Multi-UAV networks, architectures and civilian applications-Communication challenges and protocols for micro UAVs- Connected and autonomous cars – Wireless technologies for Vehicle-to-Infrastructure (V2I) and Vehicle-to-Vehicle (V2V) communications – Automotive surrounding sensing with GHz and THz signals.

UNIT 5 – QUALITY OF SERVICE**9Hrs.**

QoS Challenges in Wireless IP Networks – QoS in 3GPP – QoS Architecture, Management and Classes -QoS Attributes – Management of End-to-End IP QoS – EPS Bearers and QoS in LTE networks.

MAX. 45 Hours.**COURSE OUTCOMES**

On completion of the course, student will be able to

CO1: Understand the fundamental concepts of 5G networks.

CO2: Describe the 5G architecture and operation model.

CO3: Analyze the protocol support of 5G network.

CO4: Design IoT based applications with 5G network.

CO5: Describe the future mobile networks.

CO6: Implement 5G network with simulation.

TEXT / REFERENCE BOOKS

1. Wireless Communications: Principles and Practice, by Theodore S. Rappaport, Prentice Hall., 2014
2. 802.11n: A Survival Guide, by Matthew Gast, O'Reilly Media.
3. 802.11ac: A Survival Guide, by Matthew Gast, O'Reilly Media.
4. Wireless Networking Complete, by Pei Zheng et al., Morgan Kaufmann.
5. Zhang, Yin, Chen, Min, "Cloud Based 5G Wireless Networks", Springer, 2016
6. Jonathan Rodriguez, "Fundamentals of 5G Mobile Networks", Wiley 2015.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SECA4001	SOFTWARE TOOLS FOR ENGINEERING APPLICATIONS	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES

- To understand and gain complete knowledge about the fundamentals of MATLAB programming.
- To develop and translate mathematical concepts to MATLAB code.
- To provide data analytic skills by processing and visualization of data's.
- To design and develop Simulink and MATLAB models for specific engineering applications.

UNIT 1 – INTRODUCTION TO MATLAB**9 Hrs.**

Introduction To Matlab software-basic Features- Introduction to programming in MATLAB-M-File- Scripts-Input-Output commands – Creation and overwriting of Variables- Data types –Arithmetic, Relational & Logical operations – Example programs for operations- precedence of operators -Matrix generation and matrix arithmetic operation- Transposing a matrix – Concatenating matrices -Array Initialization and array arithmetic operations-Examples for Solving linear equations- Functions – User defined functions – passing arguments – using functions with vectors and matrices- cell arrays & structures – Strings – comparing – Concatenation.

UNIT 2 – LOOPS & CONTROL STATEMENTS**9 Hrs.**

Control Flow & Decision statements- IF – IF ELSE – NESTED IF ELSE – SWITCH – TRY & CATCH – FOR -WHILE – NESTED FOR – FOR with IF statements, MATLAB program organization, Debugging methods- Setting and running with breakpoints – Examining values-Correcting and ending debugging, Example programs using the above commands.

MISCELLANEOUS TOPICS: Date & Time Functions, Time Computations, File & Directory management.

UNIT 3 – PLOTS IN MATLAB & GUI**9 Hrs.**

Basic 2D plots, Parametric & Implicit plots, subplot, LOG, LOG-LOG, SEMILOG-POLAR-COMET, exporting figures, HOLD, STEM, BAR, HIST, Interactive plotting,, axis labels, and annotations, Specifying line styles and colors, 3D plots – Mesh Surface- Contour –Plots with special graphics, View command, Plotting file data, Plotting from a function, GUI – Event based user interfaces, Matlab GUIDE, call back function, GUI controls, Example programs.

UNIT 4 – ADVANCED MATHEMATICS APPLICATIONS**9 Hrs.**

Fitting Curves to Data -Polynomials, Addition, multiplication and division of polynomials, Roots and derivative of a polynomial, curve fitting, polyfit, Interpolation, Extrapolation, Least squares, basic fitting interface, Complex Numbers, Adding, Subtracting and Multiplying Complex Numbers, Integration and Differentiation, Trapezoidal Rule, Calculus in Symbolic Math Toolbox.

UNIT 5 – SIMULINK & MATLAB APPLICATIONS**9 Hrs.**

Simulink- Introduction, Block setting, Model annotation, solver, sinks library, sources, math operations library, user defined functions and look up table in Simulink, ports and subsystems, masked sub system, program controls in Simulink: FOR, WHILE, IF, CASE, Signal routing and logical's, Exporting Simulink data to Matlab, Applications –Modelling of a simple PID controller using SIMULINK, Plotting the Frequency response of FIR & IIR filters using MATLAB.

MAX. 45 Hrs.**COURSE OUTCOMES:**

On completion of the course, student will be able to

CO1: Recall and recollect the basic programming fundamentals

CO2: Understand various array arithmetic procedures

CO3: Analyze and develop different control structures using MATLAB

CO4: Evaluate different interactive plotting methods

CO5: Identify the need for GUI based operations for real time programming.

CO6: Design and demonstrate applications based on communication systems, controllers etc.

TEXT / REFERENCE BOOKS

1. William J. Palm III, "Introduction to MATLAB for Engineers", 3rd Edition, McGraw Hill Publications, 2012.
2. Bansal R.K, Goel A.K., Sharma M.K., "MATLAB and its Applications in Engineering", Pearson Education, 2012
3. Amos Gilat, "MATLAB-An Introduction with Applications", Wiley India, 2009..
4. Stephen.J.Chapman, "Programming in MATLAB for Engineers", Cengage Learning, 2011.
5. Robert Schilling & Sandra L.Harris, "Introduction to Digital Signal Processing using Matlab", Cengage Learning, 2014.
6. Cesar Perez Lopez, "Matlab Programming for Numerical Analysis", Springer Publications, 2014

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks: 100

Exam Duration: 3 Hrs.

PART A: 10 questions of 2 marks each – No choice

20 Marks

PART B: 2 questions from each unit of internal choice; each carrying 16 marks

80 Marks

SMEA4001	RESOURCE MANAGEMENT TECHNIQUES	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVES:

The aim of the course is to:

- Understand importance of optimization of industrial process management
- Learn to solve problems in linear programming and Integer programming
- Develop in a student efficient and effective deployment of an organization's resources when they are needed
- Analyze and appreciate variety of performance measures for various optimization problems

UNIT 1 – INTRODUCTION AND LINEAR PROGRAMMING**9Hours.**

Operations Research(OR)- Nature – Characteristics – Phases – Role of OR in Decision making – Outline of OR Models Linear Programming – Formulation of L.P.problems –Solution by graphical method, simplex method, Big M methods.

UNIT 2 – TRANSPORTATION AND ASSIGNMENT MODEL**9Hours.**

Transportation problem – Initial Basic feasible solution- Northwest corner method, Least Cost method, Vogel's approximation method – Test for optimality-MODI method. Assignment problems- Hungarian assignment models-Travelling salesman problems

UNIT 3 – RESOURCE SCHEDULING AND NETWORK ANALYSIS**9Hours.**

Problem of Sequencing – Problem with N jobs and 2 machines N Jobs 3 machines N Jobs and m machines and 2 Jobs m machines (Graphical method). Project Management -Basic concepts–Network construction and scheduling Critical Path Method (CPM) & Program evaluation review technique (PERT) and resource leveling by network techniques, time – Cost trade off.

UNIT 4 – INVENTORY CONTROL**9Hours.**

Inventory Control – Various Types of inventory models – deterministic inventory models – Production model, Purchase model– with and without shortage- Economic Order Quantity (EOQ) – Buffer stock – Shortage quantity, Probabilistic inventory models – Quantity Discount and Price Breaks

UNIT 5 – QUEUEING THEORY AND REPLACEMENT MODELS**9Hours.**

Queueing theory – Poisson arrivals and exponential service times, Single channel models only, Replacement policy for items whose maintenance cost increases with time- Consideration of time value of money – Replacement policy- Individual, Group replacement of items that fail completely and suddenly.

MAX. 45 Hrs.**COURSE OUTCOMES:**

At the end of the course, the students will be able to:

- CO1:** Formulate the linear programming problems.
CO2: Analyse transportation and assignment problems.
CO3: Develop the scheduling systems.
CO4: Analyse CPM and PERT methods.
CO5: Describe the different inventory models.
CO6: Design the Queueing theory and examine the replacement model.

TEXT/REFERENCE BOOKS:

1. K. Malik, S. K. Yadav, S. R. Yadav, Optimization Techniques. I K International Publishing House Pvt. Ltd; First Edition edition, 2013.
2. PK Gupta, D.S Hira Operations Research. S Chand seventh revised edition, 2014.
3. Sharma S.D, Operation research Theory,Methods and Application, 17th Edn., Kedar Nath Ram Nath Publication, 2010.
4. Nita H Shah, Ravi M Gor & Hardik Soni, Operation research, 4th Edn., PHI, 2010.
5. Edwin K. P. Chong & Stanislaw H. Zak, "An Introduction to Optimization" Wiley India, 2017.
6. Mohan, Kusum Deep, Optimization Techniques. New Age Science, 2009.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN**Max. Marks: 100****Exam Duration: 3 Hrs.****PART A:** 10 questions of 2 marks each – No choice**20 Marks****PART B:** 2 questions from each unit of internal choice; each carrying 16 marks**80 Marks**

SMEA4002	WIND AND SOLAR ENERGY	L	T	P	Credit	Total Marks
		3	0	0	3	100

COURSE OBJECTIVE

- To understand the fundamentals of wind and solar energy and its conversion system
- To study the various types of wind machines and to analyze its performance.
- To study the radiation principles with respective solar energy estimation.
- To discuss about solar thermal technologies and its applications.
- To learn about PV technology principles and understand the various techniques of various solar cells.

UNIT 1 – WIND ENERGY FUNDAMENTALS& WIND MEASUREMENTS**9Hrs.**

Introduction: Scope of wind power potential in India. Wind Energy Basics, Wind Speeds and scales, Terrain, Roughness, Wind Mechanics, Power Content, Classification of wind turbines, Atmospheric Boundary Layers, Turbulence. Instrumentation for wind measurements, Wind data analysis, tabulation, Wind resource estimation, Betz's Limit, Turbulence Analysis.

UNIT 2 – WIND MACHINES**9Hrs.**

Types of wind machines, analysis of aerodynamic forces acting on blade, performance, generating systems, energy storage – Applications.

UNIT 3 – SOLAR RADIATION AND COLLECTORS**9Hrs.**

Solar angles – Sun path diagrams – Radiation – extra terrestrial characteristics – measurement and estimation on horizontal and tilted surfaces – flat plate collector thermal analysis – testing methods- evacuated tubular collectors – concentrator collectors – classification – design and performance parameters – tracking systems – compound parabolic concentrators – parabolic trough concentrators – concentrators with point focus – Heliostats – performance of the collectors.

UNIT 4 – SOLAR THERMAL TECHNOLOGIES**9Hrs.**

Principle of working, types, design and operation of solar heating and cooling systems – Thermal Energy storage systems – Solar Desalination – Solar cooker: domestic, community – Solar pond – Solar drying.

UNIT 5 – SOLAR PHOTO VOLTAIC SYSTEM DESIGN AND APPLICATION**9Hrs.**

Semiconductor – properties – energy levels – basic equations of semiconductor devices physics. Solar cells – p-n junction – Solar cell array system analysis and performance prediction – solar cell array design concepts – PV system design – design process and optimization – detailed array design – variation of efficiency with band-gap and temperature – efficiency measurements – high efficiency cells – Solar thermo-photovoltaic – System installation – operation and maintenance – field experience – PV market analysis and economics of SPV systems

MAX. 45 Hrs.**COURSE OUTCOMES:**

On completion of the course, student will be able to

CO1: To understand the basic fundamentals of wind energy and measurements.

CO2: Appreciate the need of Wind Energy and the various components used in energy generation and know the classifications

CO3: To explain the technical and physical principles of solar cells and solar collectors.

CO4: Describe the use of solar energy and the various components used in the energy production with respect to applications like – heating and cooling

CO5: To understand the application and design of photovoltaic system.

CO6: Compare Solar, Wind energy systems, their prospects, Advantages and limitations

TEXT/REFERENCE BOOKS:

1. Vaughn Nelson, Kenneth Starcher, Wind Energy: Renewable Energy and the Environment (Taylor & Francis Series in Energy and the Environment) 3rd Edition, Oct 31, 2018
2. Dylan Carter, Renewable Energy: An Introduction, 2018.
3. Soteris A. Kalogirou, Solar Energy Engineering process and systems. Publisher: Academic Press, 2014
4. Dan Chiras, Solar Electricity Basics: A Green Energy Guide, Publisher: New Society Publishers, 2010.
5. Angèle Reinders, Pierre Verlinden, and Photovoltaic Solar Energy: From Fundamentals to Applications, 2017.
6. James F. Manwell, Jon G. McGowan, Wind Energy Explained: Theory, Design and Application, 2010

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks: 100

Exam Duration: 3 Hrs.

PART A: 10 questions of 2 marks each – No choice

20 Marks

PART B: 2 questions from each unit of internal choice; each carrying 16 marks

80 Marks