ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+'Grade by NAAC(CGPA:3.58/4.00)
College with Potential for Excellence by UGC
DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science

BBA/BCA/BA/B.Sc./B. Com
SUBJECT: SKILL ENHANCEMENT COURSE
I Semester
Web Designing

Content of the Course
Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 30 Hrs.   Maximum Marks: 100

Units	Topics	No. of Lectures
I	**Introduction to Web Development:** Topics Introduction to the Internet and its applications, World Wide Web (WWW), difference between static and dynamic websites, introduction to web browsers and web servers, introduction to HTML and CSS, Uniform Resource Locator (URL), software for web designing.	6
II	**Web development overview:** internet and web basics, types of websites: static, dynamic, single-page, multi-page, frontend and backend roles, HTTP and HTTPS protocols, domain names and extensions, web hosting, localhost setup, website file structure, URL anatomy, web browsers, text editors.	6
III	**HTML:** The Foundation of Web Pages Topics: HTML introduction and structure, tags and attributes, headings, paragraphs, FORMATTING- Bold Text, Bold Text, Underlined Text, Strike Text, Superscript Text, Subscript Text, Larger Text, Smaller Text, Strong Text, Text Direction, Text Citations, Computer Code, Address Text.	6
IV	**HTML**–links, images, lists ordered, unordered, nested, tables rows, columns, forms input, select, checkbox, radio, submit. anchor tag, creating website homepage using basic tags. HTML Frames. Grouping Content(div, span)	6
V	**CSS:** Styling Web Pages: CSS introduction, syntax and selectors: element, class, ID, Types of CSS-inline, internal, external. Properties: color, font, background, text alignment, spacing, borders, padding, positioning - static, relative, absolute, fixed. **Text Fonts:** color, background-color, font-family, font-size, font-style, font-variant, font-weight. **Lists:** List-style-type, list-style-position, list-style-image, list-style.	6

References

Text Books:
- Introduction to Web Technology by Rachana Dubey, Blue Rose Publishers, ISBN: 9789389888966.. Edition: First, 2020.
- Web Designing" by C. Xavier, New Age International, ISBN: 9789395161268. 9395161264 Edition

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College with Potential for Excellence by UGC
DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science
BBA/BCA/BA/B.Sc./B. Com
SUBJECT: SKILL ENHANCEMENT COURSE
I Semester
Desktop Publishing (DTP)
Content of the Course

Total No. of Lectures: 30 Hrs.(theory) + 15 hrs(Practical)

Maximum Marks: 100

Minimum Marks: 35

Module	Topics Covered	No. of Lectures
I	Introduction to Desktop Publishing : History evolution of DTP , DTP vs Word Processing , Common DTP Software (CorelDraw, Adobe InDesign, MS Publisher, Scribus Introduction), Page layout principles, Indian Design aesthetics, Contribution of India to early printing methods and calligraphy , Indian language typography and typesetting challenges.	06
II	Typography and Layout design : Font selection and pairing ,Typefaces in Indian script fonts , Grids , margins and alignment , Visual Hierarchy , Readability and legibility. Importance of typography in Indian Manuscript. PageMaker -Introduction	06
III	Working with Images and Graphics – Raster vs Vector images ,Image editing , Use of Indian motifs in graphics , Color theory in Indian Context (e.g. festival colors), importing and places , Corel Draw-Drawing-lines, shapes, inserting pictures, objects, tables, templates, Use of various tools such as Pick tools, Zoom tools, Free hand tool, square tool, rectangle tool, Text tool, Fill tool etc. Multi page layout design , using master pages and templates , Text wrapping and styles.	06
IV	Creating Publications - Design Principles & Color Harmony Introduction to colors -Primary and Secondary in both RGB & CMYK schemes/modes, designing brochures, pamphlets ,invitation , Printing basics and resolution, Government publishing standards and vernacular content practices .	06
V	Digital Publishing and Career Pathways – Exporting and publishing formats (PDF, epub), Web vs Print publishing , Freelancing and job roles in DTP , Legal aspects (copyrights , open fonts) , Digital India and e-governance initiatives in digital publishing , Growth of Indian regional language content online.	06

References

Suggested Readings:
Desktop Publishing - Bharihoke Deepak (ISBN : 9788120341881)
PageMaker 7 Training Guide – Satish Jain (ISBN : 9788170086996)
CorelDraw X7 Training Guide – Kogent Learning Solutions Inc. (ISBN : 9789350048720)

"Web Links
- https://swayam.gov.in/
- https://learn.corel.com

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DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science

BBA/BCA/BA/B.Sc./B. Com- III Semester
Paper-Vocational
Digital Marketing

Content of the Course

Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs.   Maximum Marks: 60

Units	Topics	No. of Lectures
I	Meaning of Digital Marketing, Differences from Traditional Marketing, Return on Investments in Digital Marketing vs. Traditional Marketing, E-Commerce, Tools used for successful marketing, SWOT Analysis of Business for Digital Marketing, Meaning of Blogs, Websites, Portal and Their Differences, Visibility, Visitor Engagement, Conversion Process, Retention, Performance Evaluation. **Keywords: Titles, Meta Tags**	20
II	**Search Engine Optimization (SEO) :** On page Optimization Techniques, Off Page Optimization Techniques, Preparing Reports, Creating Search Campaigns, Creating Display Campaigns. **Social Media Optimization (SMO)** Introduction to Social Media Marketing, Advanced Facebook Marketing, WordPress Blog Creation, Twitter Marketing, LinkedIn Marketing, Instagram Marketing, Social media Analytical Tools. **Keywords:** Google, Word press, FB, Linkedin, Instagram, Analytics, SMO, Verbal Communication, Non- Verbal Communication, Intra personal and Interpersonal communication.	20
III	**Search Engine Marketing**: Meaning and Use of Search Engine Marketing, Tools used- Pay Per Click, Google Adwords, Display Advertising Techniques, Report Generation **Website Traffic Analysis, Affiliate Marketing, and Ad Designing :** Google Analytics, Online Reputation Management, E-mail Marketing, Affiliate Marketing, Understanding Ad Words Algorithm, Advertisement Designing. Keywords: PPC, Google Ad words, Reports, SEM, Google Analytics, Ad Design, Social Media, Affiliate	20

References

Text Books:

- Ahuja Vandana Digital Marketing. Oxford University Press (2016) ISBN: 9780199455447
- Sainy Romi, Nargundkar Rajendra Digital Marketing: Cases From India, Nationmaz Press (2018) ISBN 9781644291931, 1644291932

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Faculty of Science

BBA/BCA/BA/B.Sc./B. Com III Semester
Paper-Vocational
Web Designing
Content of the Course
Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs.   Maximum Marks: 60

Units	Topics	No. of Lectures
I	Software for Web Designing: types of web pages, static and dynamic, hardware tools for website, browser, server, client. Introduction to HTML: HTML Tags and Attributes, HTML Basic Tags, Formatting Tags, HTML Color Coding, Div and Span Tags for Grouping, Lists and its type, Images: Image and Image Mapping, Hyperlink: URL, URL Encoding, Table: \<table\>, \<th\>, \<tr\>, \<td\>, \<caption\>, \<thead\>, \<tbody\>, \<tfoot\>, html Form: \<input\>, \<textarea\>, \<button\>. \<select\>, \<label\>, lists in html.	5
II	CSS: Introduction, Features and benefits of CSS, CSS Syntax, External, Internal, inline CSS, Selectors: ID, Class Selectors, Grouping Selectors, Universal Selector, Child Selectors, Attribute Selectors, background-image, Text Fonts: Color, background-color, text-decoration, text-align, font-family, font-size, font-style, font-weight, Lists: list-style-type, List style-position, list-style-image. list-style, CSS Tables (border, width & height, text-align, vertical-align, padding, color).	5
III	The Java Script: Nature of JavaScript, Script Writing Basics, Introduction to JavaScript Engines, Values, Variables and Operators, Operator Precedence, Ternary Operators Control statements, JavaScript Arrays: Introduction and Declaring, JavaScript Loops: Introduction to Loops and its types, Break and Continue in Loops, Events in Javascript: prompt box, confirm box, alert, Function: Introduction to Functions, Functions in JavaScript.	7

References

Suggested Readings:

- Jon Duckett, HTML And CSS: Design And Build Websites, Wiley
- Jon Duckett, JavaScript And Jquery: Interactive Front-End Web Development, Wiley
- Jennifer Niederst Robbins, Learning Web Design: A Beginner's Guide To HTML, CSS, JavaScript, And Web Graphics, O'reilly
- Steven M. Schafer, HTML, XHTML, And CSS Bible, Wiley
- Felke-Morris, Basics Of Web Design: Html5 & Css3, 5th Edition, Addison-Wesley, 2020.
- Ian Pouncey, Richard York, Beginning CSS: Cascading Style Sheets For Web Design, Wiley India.

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Faculty of Science

BBA/BCA/BA/B.Sc./B. Com
III Semester
Paper-Vocational
Desktop Publishing

Content of the Course

Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs.   Maximum Marks: 60

Units	Topics	No. of Lectures
I	Introduction of MS Word ,Anatomy of MS word, concept of templates , text formatting , Format painter , inserting objects shapes and smart art graphics, inserting 3D models, Bookmarking, Cross referencing and Hyperlink, Header, footer , page numbering, Inserting Word Art, adding watermark in document, Page Coloring, Adding borders in Object,	8
II	Adding references in Word document:- Endnote, Footnote, Insert Caption, Creation of Macros , Creating Index in MS Word , Mail Merge concept. Introduction of PageMaker applications of Adobe PageMaker. Adding Master in document, Working of tools- Pick tool, Rotate tool, Crop Tool, Rectangle Tool, Ellipse Tool, Polygon Tool, Rectangular Framing Tool ,Drawing tools, Fills and Outlines.	12
III	Anatomy of Corel Draw, Corel Draw-Drawing-lines, shapes, inserting pictures, objects, tables, templates, Use of various tools such as Pick tools, Zoom tools, Free hand tool, square tool, rectangle tool, Text tool, Fill tool etc. grouping and ungrouping. locking and unlocking objects	10

References

Text books, Reference books, other resources:
1. Desktop Publishing From A to Z by Bill Grout and Osborne; McGraw Hill
2. DTP(Desk Top Publishing) for PC user by Houghton; Galgotia Publishing House Pvt.Ltd.
3. Adobe Pagemaker 6.5-Shashank Jain & Satish Jain-First Edition 2001, BPB Publications.
4. DESKTOP PUBLISHING ON PC-M.C.Sharma, BPB Publications
5. Corel Draw the Official Guide by Gray David Bouton, CorelPress.
6. The Complete Reference Getting Started with Pagemaker,McGraw-Hills.
7. Adobe Photoshop CS2 Classroom In A Book(2020), Adobe Press.

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Faculty of Science

BBA/BCA/BA/B.Sc./B. Com IV Semester
Paper-Vocational
E-Commerce
Content of the Course
Theory

No. of Lectures (in hours per week): 2 Hrs. per week
Total No. of Lectures: 30 Hrs.

Maximum Marks: 60

Units	Topics	No. of Lectures
I	Introduction to E-Commerce Concepts and significance of E-commerce; Driving forces of E-commerce; E-commerce business models Key elements of a business model and categories; Design and launch of E-commerce website - Decisions regarding Selection of hardware and software; Outsourcing Vs in-house development of a website; Functions of E-Commerce; Types of E-Commerce; E-Commerce Systems and Prerequisites, Scope of E-Commerce.	8
II	E-Commerce Activities and Operations Various E-Commerce activities; Various manpower associated with e- commerce activities; Types of E-Commerce Providers and Vendors: Modes of operations associated with E-Commerce; E-commerce applications in various industries (banking, insurance, payment of utility bills and others), e-marketing, e-tailing, online services, e-auctions, online portal, online learning, e-publishing and e-entertainment, online shopping.	7
III	E-payment System E-payment Methods- Debit card, Credit card, Smart cards, E-Money, E- Wallets; Digital signatures- procedures and legal position; Payment gateways; Online banking- concepts, importance; Electronic fund transfer; Automated Clearing House. Automated Ledger Posting, Emerging modes and systems of E-payment (M-Paisa, PayPal and other digital currency), UPI Apps, Aadhar Enabled Payment Systems, BHIM App E-payments risks.	8
IV	Security and Legal Aspects of E-commerce E-commerce security meaning and issues. Security threats in the E- commerce environment- security intrusions and breaches, attacking methods like hacking, sniffing, cyber-vandalism etc.; Technology solutions- encryption, security channels of communication, protecting networks, servers and clients. Overview of Information Technology Act, 2000-provisions related to secure electronic records.	7

References

Text Books:
1. E-commerce- Tulsiram Kundala, K.maheshwari- Himalya publication Nagpur
2. E-commerce- Dr. Sandeep Srivastava, Er. Meera Goyal - SBPD-New Delhi
3. E-commerce-Avriti Tangri- VK Global Publications Pvt
4. E-commerce-B. Bhardwaj Dr. RS, Garg-Galgotia Publishing Company
5. Essential of E-Commerce -M.K.Mallick - Sanjay Sahity Bhavan Agra

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Faculty of Science

BBA/BCA/BA/B.Sc./B. Com IV Semester
Paper-Vocational
Desktop Publishing with Advanced PageMaker
Content of the Course
Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 30 Hrs.   Maximum Marks: 60

Units	Topics	No. of Lectures
I	Working with a publication, opening a publication, creating a new document, setting the margin, setting the page size, setting the page orientation, placing graphics, placing in-Line graphics, converting an Independent Graphics to an In-Line Graphics, Aligning In-Line Graphics, sizing graphics, Cropping Graphics, Object Linking and Embedding (OLE), Setting up an OLE linked Object, Embedding an OLE Object, Text Wrap.	8
II	Introduction of control Pallete, Control Pallete Basics, Modifying objects by Adjusting Values, Using the reference point proxy, Moving Object, Rotating an Object, Reflecting an Object, Skewing an Object, Aligning and Distributing an Object, Grouping and Ungrouping, Locking objects, polygon setting, Long documents features:- Preparing a book, inserting page numbering, Creating a table of content, Inserting adobe table ,Formatting text in table, updating table, exporting table as text, exporting and saving adobe table.	10
III	Introduction of adobe photoshop, Interface of photoshop, working of tools, image resizing, Image Transformation: - Scaling, Rotating, skewing, changing color modes of images and adjustments, Layer set, locking layers, flatten image, feathering image, **working with selection**: - Add to selection, subtract from selection, intersect with selection, Load selection, save selection, filter effects on image, Animation on image using image ready	12

References

Text Books:
1. Desk Top Publishing From A to Z by Bill Grout and Osborne; McGraw Hill
2. DTP (Desk Top Publishing) for PC user by Houghton; Galgotia Publishing House Pvt. Ltd., Daryaganj, New Delhi.
3. ADOBE PAGEMAKER 6.5-Shashank Jain & Satish Jain - First Edition 2001, BPB Publications.
4. PAGEMAKER 6.5 COMPLETE - R. Shamms Mortier, Rick Wallace, Rick Wallace, Phil Gaskill, Richard Romano, Carla Rose, Ellen Wixted, First Indian Edition 1997, Techmedia.
5. DESKTOP PUBLISHING ON PC-M.C. Sharma, First Edition 1997, BPB Publications.

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Faculty of Science

BBA/BCA/BA/B.Sc./B. Com IV Semester
Paper-Vocational
Web Development using PHP & MySQL
Content of the Course
Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs.   Maximum Marks: 60

Units	Topics	No. of Lectures
I	BASICS OF PHP: Introduction to PHP, PHP features, installation of XAMPP, WAMP, Benefits of using PHP MYSQL, Server Client Environment, Web Browser, Web Server Installation & Configuration Files. OOPs with PHP, language basics, syntax, comments, variables, constants and data types, expressions and operators.	15
II	Flow control statements, looping structures, and Arrays Including HTML code in PHP and embedding PHP in web pages. FUNCTIONS & STRINGS in PHP: Defining a function, calling a function, variable scope, function parameters, return values, User Defined Function, System Defined Function, Parameterized Function, Date and time Function, formatting strings, and regular expression.	15
III	Strings: Creating & and accessing strings, searching and replacing strings, and comparing strings. PHP Forms: $ — GET, $_POST, File Handling: File and directory, open, close, read, write. MySQL an Overview: Introduction, what is a Database, understanding an RDBMS, Tables, records & Fields, SQL Language	15
IV	Working with phpmyadmin: Creating and using a database, selecting a database, creating/dropping a table, loading data into a table, retrieving information from a table, selecting all data, selecting particular rows, selecting particular columns, writing queries, sorting, calculations, working with NULL values, pattern matching, counting rows. MySQL DATABASES IN PHP: Introduction, connecting to a MySQL database, querying the database Designing applications using PHP & and MySQL.	15

References

Text Books:
- Head First PHP & MySQL, Lynn Beighley & Michael Morrison, O'Reilly
- PHP: A Beginner's Guide, Vikram Vaswani, McGraw-Hill Edition
- Learning PUP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly
- PHP and MySQL Web Development, Luke Welling, Addison-Wesley

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BBA/BCA/BA/B.Sc./B. Com V Semester
Paper-Vocational
Desktop Publishing with Photoshop
Content of the Course
Maximum Marks: 60.

Units	Topics	No. of Lectures
I	Basics of Photoshop : Introduction, Selecting a Workspace, Managing Palettes, Changing the Position of a Palette Group, Working with Keyboard Shortcuts and Menu Settings, Working with Images :Types of Image Formats, Bitmap and Vector Images, Understanding the Image Resolution, About the Pixel Logic, Understanding the Image Size, Editing Images, Rotating an Image, Cropping an Image, Hiding Instead of Cropping, Duplicating an Image, Color Mode, RGB Mode, CMYK, Gray scale Mode, HSB Mode Making Color Adjustments Levels, Curves, Brightness/Contrast, Hue/ Saturation, Variations.	5
II	Creating and transforming the selections: Using Selections Tools, The Marquee Tools, Lasso Tools, Magic Wand Tool, Making Color Range Selections, Modifying a Selection, Adding and Subtracting Selection, Expand and Contract Commands, Grow and Similar Commands, Transforming a Selection, Scale, Rotate, Distort, Skew, Perspective, and Warp, Saving and Loading Selection	5
III	Drawing Painting and Retouching Tools: Setting the Current Foreground and Background Colors, Color Picker Dialog Box ,Eyedropper Tool, Color Palette, Drawing Tools Using the Rectangle Tool, Using the Custom Shape Tool, Pen Tool, Painting Tools, Gradient Tool, Paint Bucket Tool, Brush Tool, Pencil Tool, The Color Replacement Tool, Retouching Tools, Spot Healing Brush Tool, Healing Brush Tool, Patch Tool, Clone Stamp Tool, Pattern Stamp Tool, Eraser Tool, Background Eraser Tool The Magic Eraser Tool, Blur Tool, Sharpen Tool, Smudge Tool, Dodge Tool, Bum Tool, Sponge Tool.	10
IV	Layers, Styles, Filters and Printing in Photoshop : About the Layers Palette, Working with Layers, Creating a New Layer Using the Layer via Cut Command, Creating a New Layer Using the Layer via Copy Command, Merging Layers, Flattening Images, Moving Layers between Images, Linking and Unlinking Layers, Working with Adjustment Layers, Applying Blend Modes, Masking Layers, Smart Objects and Filters, Editing Smart Object, The Filter Gallery, Applying the Extract Filter, Applying the Liquefy Filter, Applying the Artistic Filters, Applying the Blur Filters, Applying the Brush Stroke Filters, Applying the Distort Filters, Applying the Noise Filters, Applying the Pixilated Filters, Applying the Render, Filters Printing in Photoshop: The Paths to Illustrator Command, Printing in Photoshop, Page Setup, Various Print Commands in Photoshop.	10

References

Text Books

1. Adobe Photoshop CC Classroom in a Book by Faulkner Andrew and Chavez Conrad
2. Adobe Photoshop CS6 Bible by Brad Dayley and Lisa Danae Dayley
3. Photoshop CS6 Training Guide by Saish Jain
4. Beginner's Guide to Digital Painting in Photoshop by Nykolai Aleksander and Richard
5. Adobe Photoshop develop by Staff of Adobe

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Faculty of Science

BBA/BCA/BA/B.Sc./B. Com V Semester
Paper-Vocational
Web Designing Techniques
Content of the Course
Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs.   Maximum Marks: 60

Units	Topics	No. of Lectures
I	**Introduction to Canva:** Overview of Canva interface and features, Creating an account and setting up a profile, Understanding the different types of design formats. **Design Basics:** Using different fonts and understanding color combinations, Designing with grids and layouts. **Creating Designs:** Uploading Images, Using Canva's templates and elements, Creating presentations, posters, and flyers.	10
II	**Introduction to AngularJS:** Overview of AngularJS and its architecture, Setting up an AngularJS development environment, Creating a basic AngularJS application, AngularsJS Expressions and Modules, AngularJS Directives **Controllers and Services:** AngularJS Contollers, Creating and using controllers **Data Binding and Scope:** AngularJS Data Binding, Using data binding to update the view in real-time, AngularJS Scopes, AngularJS Filters, AngularJS Tables **Forms and Validations:** Creating and validating forms with AngularJS	10
III	**Introduction to Bootstrap:** Overview of Bootstrap and its features, Setting up the development environment, Understanding the Bootstrap grid system **Layout and Navigation:** Creating and using the navbar component, Creating and using the grid system for layout **Typography and Tables:** Using typography classes to style text, Creating and using tables Forms and Buttons: Creating and using forms, Styling forms with Bootstrap classes, Creating and using buttons and button groups	10

References

Text Books:

- Angular: Up and Running: Learning Angular, Step by Step by Shyam Seshadri
- Bootstrap 4 Quick Start A Beginner's Guide to Building Responsive Layouts By Jacob D Lett · 2018
- Design Better and Build Your Brand in Canva A Beginner's Guide to Producing Professional Branding, Marketing, and Social Content for Businesses By Laura Goodsell · 2023

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BBA/BCA/BA/B.Sc./B. Com V Semester
Paper-Vocational
CYBER CRIMES AND LAWS
Content of the Course
Maximum Marks: 60

Units	Topics	No. of Lectures
I	Introduction to Cyber World, Cyber Security V/s Cyber Law, Types of Cyber Threats, Difference between Cyber Crimes and Conventional Crimes, Areas Comes under Cyber Law, Jurisdiction area of cyber law. Type of Cyber Crimes like — Piracy, Phishing, Hacking of information, Data Breach, CSS Attacks, Cyber Harassments, SQL Injection, Identity Hack, Cyber terrorism, DOS, Insider Attacks, Dark Web using TOR, Credit Card/Debit Card/UPI Hackings, Cyber Stalking, Cyber bullying, Eaves dropping attack, online libel/slander, Social Engineering, Cryptojacking, Virtual Currency Fraud, Vishing (Voice phishing), IOT Attacks, Phone Hacking, Child Pornography, Human Trafficking, Malicious Advertisement Campaign (Malvertising), online gambling, Hacking into voting systems, Breach of IPR, patent & Copyright etc.	10
II	Definitions under IT Act, 2000; Concept of Internet, Web Centric Business, E Business, Electronic Governance, Cyber jurisdiction. Contemporary Business Issues in Cyber Space. Security risks: Instant messaging platform, social networking sites, mobile applications and Internet of Things (IOT). Domain name dispute and their resolution, E- forms; EMoney, regulations of PPI (Pre-Payment Instruments) by RBI, Electronic Money Transfer, Privacy of Data and Secure Ways of Operation in Cyber Space.	8
III	**Electronic Records** Authentication of Electronic Records; Legal Recognition of Electronic Records; Legal Recognition of Digital Signatures; Applications and usage of electronic records and Digital Signatures in Government and its Agencies; Retention of Electronic Records, Intermediaries and their liabilities; Attribution, Acknowledgement and Dispatch of Electronic Records; Secure Electronic Records and Digital Signatures.	6
IV	**Regulatory Framework** Regulation of Certifying Authorities; Appointment and Functions of Controller; License to issue Digital Signatures Certificate; Renewal of License; Controller's Powers; Procedure to be Followed by Certifying Authority; Issue, Suspension and Revocation of Digital Signatures Certificate, Duties of Subscribers; Penalties and Adjudication; Appellate Tribunal; Offences; Overview of GDPR and Indian data protection regime.	6

References

Text Books:
- Cyber Crimes and Laws,Dr. U.S. Pandey,Dr. Verinder Kumar,Himalaya Pub. House New delhi.
- Arora, Sushma. and Arora R. Cyber crimes and laws, Taxmann Pvt Ltd, New Delhi.
- Brian, Craig. Cyber Law: The Law of the Internet and Information Technology. Pearson Education.
- Rattan J, Cyber Crime and Information Technology, Bharat Law House, Pvt Ltd.
- Sharma J. P., and Kanojia, S. (2018).E Business and Cyber Laws. Bharat Law house Pvt Ltd.