

<b>Subject- Hindi</b>	<b>Title- भाषा और संस्कृति</b>
<b>Subject Type-Foundation</b>	<b>Subject Code-X2-FCEA1T</b>

इकाई	विषय	घण्टे
इकाई1	1. समसामयिक सन्दर्भ: श्रीमद्भगवद्गीता – कर्मयोग 2. सूर्यकान्त त्रिपाठी निराला परिचय पाठ जागो फिर एक बार (दो) (कविता) 3. अमरकान्त परिचय पाठ दोपहर का भोजन (कहानी) 4. महादेवी वर्मा परिचय पाठ गिल्लू (रेखाचित्र)	05
इकाई2	1. हजारी प्रसाद द्विवेदी परिचयपाठ नाखून क्यों बढ़ते हैं (ललित निबन्ध) 2. मध्य प्रदेश की लोककलाएँ (संकलित) 3. मध्य प्रदेशकालोकसाहित्य (संकलित)	05
इकाई3	1. मुहावरे और कहावतें (भाषा) 2. समास परिभाषा और भेद (शब्द-रचना / व्याकरण) 3. बीज शब्द (Key Words / अवधारणा मूलक शब्द) उद्योग; सभ्यता; संस्कृति; शिक्षा; सूचना-समाज।	05

पाठ्यपुस्तकें, संदर्भ पुस्तकें, अन्य संसाधन

1. मध्यप्रदेश हिन्दी ग्रंथ अकादमी से प्रकाशित पुस्तकें
2. सूर्यकान्त त्रिपाठी निराला राग-विराग, संपादक डॉ. रामविलास शर्मा लोक भारती प्रकाशन, इलाहाबाद
3. अमरकान्त प्रतिनिधि कहानियों, राजकमल प्रकाशन, द्वितीय संस्करण
4. महादेवी वर्मा मेरा परिवार, लोक भारती प्रकाशन, इलाहाबाद उ.प्र. 1972
5. हजारी प्रसाद द्विवेदी कल्प लता निबंध संग्रह राजकमल प्रकाशन, दरियागंज, नईदिल्ली 2007 डॉ. वासुदेव नंदन प्रसाद आधुनिक हिन्दी व्याकरण और रचना, भारती भवन, ठाकुर बाड़ी रोड, पटना, बिहार
6. डॉ. राजेश्वर चतुर्वेदी हिन्दी व्याकरण, उपकार प्रकाशन, आगरा, उ.प्र.
7. गेपाल भार्गव मध्यप्रदेश कला एवं संस्कृति, कल्पज प्रकाशन, नईदिल्ली 2011
8. हिन्दी ज्ञान कोश
10. अनुशंसित डिजिटल प्लेटफॉर्म वेब लिंक
1. [www.wikipidiya.org](http://www.wikipidiya.org)
2. [www.egyankosh.ac.in](http://www.egyankosh.ac.in)
3. [www.youtube.com](http://www.youtube.com)
4. <https://epgp.inflibnet.ac.in>
5. [hindiwi.org](http://hindiwi.org)

Subject Name- English	
Subject Type- Foundation	Subject Code-X2-FCHB1T

Unit	Topic	No of Lecture
Unit 1	<b>Reading, Writing and Interpretation Skills: -</b> 1.Daffodils- Wordsworth 2.Bangle Sellers- Sarojini Naidu 3.Patriotism Beyond Politics & Religion- A.P.J. Kalam 4.Letter to God- G.L. Swanteh (Translated by Donald Yates) 5.God sees the Truth but Waits- Leo Tolstoy	10
Unit 2	<b>Comprehension Skills: -</b> Multiple Choice Questions based on Unseen Passage	3
Unit 3	<b>Language Skills: -</b> Use of idioms, phrases and punctuations, Mis-Spelt & Inappropriate words and cloze test, Conjunctions, Re-organizing jumbled sentences, Spotting the Errors.	7
Unit 4	<b>Writing Skills: -</b> Advertisement and Notice-Writing, Letter Writing (Formal & Informal Letters)	5
Unit 5	<b>Speech Skills: -</b> Vowel and consonant sounds, phonetic symbols, accent, Modulation and intonation	5

**Learning Resources** (Textbooks, Reference books, other resources)

- 1. Oxford English Language Reference. Compact Oxford Dictionary, Theseus and Word Power Guide OUP**
- 2. Brush Up Your English by 5 Team Bharawan Paliers & Diars, 2017 3, N. D. Turton and JB. Heston Dictionary of Common Errors. Longman Ind. 1998**
- 4. Sunnanopa. A Promial Course in English Pronunciation, Moraw Hill Education India**
- 5. Chris Lele the Vocabulary Builder Workbook Zephyros Press.**
- 6. S.P. Dhanal. English and Soft Skills, Orient Black Swan, 2010**
- 7. Dr M. Farook. English for Communication, Emerald Publaber, 2015,**
- 8. De Mathew Joseph. Fine-tune your English. Orient Black Swan, 2010.**
- 9.E. Suresh Kamar, B Yadav Raju and C Murlikrishna, Skills in English. Orient Black Swan, 2013.**
- 10. Bill Bryson The Mother Tongue: English and How it got it that Way, Harper Collin,1990**

Subject Name- Entrepreneurship Development	
Subject Type- Foundation	Subject Code-X2-FCAC1T

Unit	Topic
Unit 1	<p>1.Introduction:</p> <p>Entrepreneurship Development - Concept, types and Importance of entrepreneurs and significance of entrepreneurship in economic development, Startup process • Need, Problems, Challenges and solutions- women entrepreneurship and rural entrepreneurship • Report preparation: Profiling of entrepreneurs after visiting Small Scale Entrepreneurs</p>
Unit 2	<p>. Sources of Business Ideas And Tests of Feasibility:</p> <p>Generation of startup ideas, Innovation vs Creativity</p> <ul style="list-style-type: none"> <li>• Significance of writing the business plan/ project proposal; Contents of business plan/project proposal/DPR (Detail Project Report)</li> </ul> <p>Project submission/ presentation and appraisal thereof by external agencies, such as financial /non-financial institutions.</p>
Unit 3	<p>. Regulatory Institutions and Schemes:</p> <ul style="list-style-type: none"> <li>• Role of Regulatory Institutions;</li> </ul> <p>&gt; Micro, Small &amp; Medium Enterprises,</p> <p>District Industries Centers ➤ Khadi and Village Industries Commission</p> <p>&gt; National Small Industries Corporation</p> <p>&gt; Small Industries Development Bank of India</p> <ul style="list-style-type: none"> <li>• Commercial banks and various Self Employment Oriented grant and schemes; The concept, role and functions of self-help groups, business incubators, angel investors, venture capital and private equity fund in startup ideas.</li> </ul>

Learning resources

Text books, reference books and other resources

- 1.Kuratko and Rao, Entrepreneurship: A South Asian Perspective, Cengage Learning.
2. Robert Hisrich, Michael Peters, Dean Shepherd, Entrepreneurship, McGraw-Hill Education

3. Desai, Vasant. Dynamics of Entrepreneurial Development and Management. Mumbai, Himalaya Publishing House.
4. Dollinger, Mare J. Entrepreneurship: Strategies and Resources. Illinois, Irwin.
5. Holt, David H. Entrepreneurship: New Venture Creation. Prentice-Hall of India, New Delhi.
6. Plsek, Paul E. Creativity, Innovation and Quality. (Eastern Economic Edition), New Delhi: Prentice-
7. Singh, Nagendra P. Emerging Trends in Entrepreneurship Development. New Delhi: ASEED
8. SS Khanka, Entrepreneurial Development, S. Chand & Co, Delhi.
9. K Ramachandran, Entrepreneurship Development, McGraw-Hill Education

Subject Name- Women Empowerment	
Subject Type- Foundation	Subject Code-

Unit	Topic	No. of Lecture
<b>Unit 1</b>	<p>1. History of Women Empowerment in India Ancient Period, Medieval and Modern. Period.</p> <p>2. Concept of Women Empowerment: Meaning, forms, Need and Importance.</p> <p>3. Dimensions of Women Empowerment: Social, Religious, Economic, Educational and Political.</p> <p>Key Words: Women Empowerment, Social, Religious, Economic, Educational and Political Dimensions.</p>	10
<b>Unit 2</b>	<p>1. Women Empowerment: Constitutional Provisions and Laws</p> <p>2. Women Empowerment Policy and Schemes</p> <p>A. Central Level</p> <p>B. State Level (With Special Reference to Madhya Pradesh ),</p> <p>Key Words: Constitutional Provisions, Policy, Central Schemes, State Schemes.</p>	10
<b>Unit 3</b>	<p>1. Women Empowerment: Issues and Challenges.</p> <p>2. Supporting Agencies: NGOs, Self Help Groups and Panchayati Raj Institutions.</p> <p>3. Powerful Women Leadership of India: Ahilya Bai Holkar, Rani Durgavati, Savitri Bai Phule, Mary Kom, Sindhutai Sakpal, Tessy Thomas, Indira Nooyi, Gaura Devi.</p> <p>Key Words: NGOs, Self Help Groups,</p>	10

#### Recommended Books / Accessories Books / Other Text Resources

1. अंसारी, एम. ए., नारी तुम क्या ?, ज्योति प्रकाशन जयपुर, 2006
2. अंजली, भारत में महिला अपराध, राधा पब्लिकेशन नई दिल्ली, 2005
3. गोयल, संगीता और गोयल, सुनीता, भारतीय समाज में नारी, आर. जी.एस.ए. पब्लिशर्स | जयपुर, 2003
4. कौर हरप्रीत, महिलाओं के विरुद्ध हिंसा एवं मद्यपान, अमेजिंग पब्लिकेशन नई दिल्ली 2014
5. कश्यप, आलोक, भारतीय समाज में नारी दशा और दिशा, आर्य पब्लिकेशन नई दिल्ली, 2013
6. नईम मुहम्मद, महिला सशक्तिकरण चुनौतियां एवं समाधान, यूनिवर्सिटी पब्लिकेशन दिल्ली, 2014
7. सिंह, निशांत, भारतीय महिलाएं एक सामाजिक अध्ययन, ओमेगा पब्लिकेशन, नई दिल्ली 2012
8. सोती, वीरेंद्र, चंद्र, भारतीय संस्कृति में स्त्रियों की स्थिति, डी. के. प्रिंटवर्ल्ड लि. नई दिल्ली, 2009
9. शाह, तृप्ति, (हिंदी) अन, सोनी, रामनरेश, स्त्री जीवन का संघर्ष: प्राचीन काल से भक्ति | आंदोलन तक उन्नति विकास शिक्षण संगठन एवं सहियर (स्त्री संगठन)

10. Samiuddin, Abida, and Khanam, R., Women Socio-Economic Empowerment, Globa | Vision Publishing House, Ansari Road New Delhi, 2013

11. Tripathi, Madhusoodan, Women Rights in India, Omega Publications, Ansari Road New Delhi, 2011

12. वर्मा, सांवलिया बिहार, महिला जाग्रति और सशक्तिकरण, अविष्कार पब्लिकशर्स, जयपुर 2005

13. वर्मा, सांवलिया बिहारी, ग्रामीण महिला उत्थान, यूनिवर्सिटी पब्लिकेशन दिल्ली, 2011 14. यादव, वीरेंद्र सिंह, नई सहस्राब्दी का महिला सशक्तिकरण अवधारणा, चिंतन एवं सरोकार ओमेगा पब्लिकेशन, अंसारी रोड नई दिल्ली, 2010

Subject Name- Data Communication and Computer Network	
Subject Type- Core	Subject Code-S2-BCAA1T

Unit	Topic	No of Lecture
<b>Unit -1</b>	Network goals and application, Network structure, Network services, Example of networks and Network Standardization,  <b>Networking models:</b> centralized, distributed and collaborative. Network Topologies: Bus, Star, Ring, Tree, Hybrid: Selection and Evaluation factors.	15
<b>Unit-2</b>	Theoretical Basis for Data communication, Transmission media, Twisted pair (UTP, STP), Coaxial Cable, <b>Fiberoptics:</b> Selection and Evaluation factors. Line of Sight Transmission, <b>Communication Satellites.</b> Analog and Digital transmission. Transmission and switching, frequency division and time division multiplexing, STDM, Circuit switching, packet switching and message switching,	20
<b>Unit-3</b>	<b>Brief Overview of LAN (Local Area Network):</b> Classification. Brief overview of Wide Area Network (WAN). Salient features and differences of LAN with emphasis on: Media, Topology, Speed of Transmission, Distance, Cost. Terminal Handling, Polling, Token passing. Contention. <b>IEEE Standards:</b> their need and developments.	20
<b>Unit-4</b>	<b>Open System:</b> What is an Open System? Network Architectures, ISO-OSI Reference Model, Layers: Application, Presentation, Session, Transport, Network, Data Link & Physical. <b>Physical Layer</b> - Transmission, Bandwidth, Signaling devices used, media type. <b>Data Link Layer:-</b> Addressing, Media Access Methods, Logical link Control, Basic algorithms/protocols.	20
<b>Unit-5</b>	<b>Network Layer:</b> Routing: Fewest-Hops routing. Type of Service routing, Updating Gateway routing information. Brief overview of Gateways, Bridges and Routers, Gateway protocols, routing daemons. OSI and TCP/IP model. TCP/IP and Ethernet.  <b>The Internet:</b> The structure of the Internet, the internet layers, Internetwork problems. Internet Standards.	15

### Text Books (List of books as mentioned in the approved syllabus)

1. Tunnanbaum, A.S.: Computer Networks, Prentice Hall, 1985.processing, Prentice Hall, 1983.
2. Black: Computer Networks: Protocols, standards and Interfaces, Prentice Hall International 1.
- Tannanbaum, A.S.: Computer Networks, Prentice Hall, 1985.processing, Prentice Hall, 1983.
3. Fourauzan B., "Data Communications and Networking", 3rd edition, TataMcGraw

### References

1. Comer D., "Computer Networks and Internet", 2ND Edition, PearsonEducation
2. S.K.Basandra& S. Jaiswal, "Local Area Networks", Galgotia
3. William Stallings, "Data and Computer Communication"
4. Book published by M.P. Granth Academy, Bhopal

Subject Name- Database Management System Using PL/SQL	
Subject Type- Core	Subject Code- S2- BCAA2T

Unit-1	Topic	Hrs.
Unit-1	Why database? Characteristics of data in database, DBMS. What are database advantages of DBMS? Database Architecture and Modeling: Conceptual, physical and logical database models, Role of DBA, Database design. Entity Relationship (ER) Model: Components of ER-model, ER modeling symbols, Relationships. Enhanced Entity Relationship (EER) Model: An introduction, Superclass and subclass entity types, Specialization, Generalization, Attribute inheritance, Categorization & Aggregation.	12
Unit-2	<b>Fundamental Concepts:</b> Relations, Null Values, Keys, Foreign Keys, Integrity Constraints - Entity Integrity & Relational Integrity. Normalization Process: First Normal Form, Functional Dependencies, Second Normal Form, Third Normal Form, Boyce-Codd Normal Form (BCNF), Fourth Normal Form; Other Normal Forms - Fifth Normal Form & Domain/Key Normal Form. Transforming a Conceptual Model to a Relational Model: Transforming Objects Sets and Attributes, Transforming Models without External Keys, Transforming Specialization and Generalization Object Sets, Transforming Relationships: One-One Relationships, One-Many Relationships, Many-Many Relationships; Transforming Aggregated Object Sets, Transforming Recursive Relationships	12
Unit-3	<b>Relational database implementation:</b> Relational Algebra and Calculus Relational Algebra: Union, Intersection, Difference, Product, Select, Project, Join - Natural, Theta & Outer Join, Divide, Assignment. Relational Calculus: Target list & Qualifying Statement, The Existential Quantifier, The Universal Quantifier.	12
Unit-4	<b>Relational database implementation (continued):</b> Relational Implementation with SQL, Relational Implementations: An Overview. Schema and Table Definition: Schema definition, Data types & domains, Defining Tables, Column Definition. Data Manipulation: Simple Queries (SELECT, FROM, WHERE), Multiple-Table Queries, Subqueries, Correlated Subqueries, EXISTS and NOT EXISTS operators, Built-In Functions (SUM, AVG, COUNT, MAX, and MIN), GROUP BY and HAVING clause, Built-In Functions with Subqueries. Relational Algebra Operations: UNION, INTERSECT, EXCEPT, JOIN. Database Change Operations: INSERT, UPDATE, DELETE. Using SQL with Data Processing Languages; View Definition, Restrictions on View Queries and Updates.	12



<b>Unit-5</b>	<b>Physical Database Systems</b> Introduction, Physical Access of the Database. Physical Storage Media: Secondary Storage, Physical Storage Blocks. Disk Performance Factors: Access Motion Time, Head Activation Time, Rotational Delay, Data Transfer Rate, Data Transfer Time. Data Storage Formats on Disk: Track Format, Record Format-Fixed-Length Records & Variable-Length Records, Input/output Management. File Organizing and Addressing Methods: Sequential File Organization, Indexed Sequential File Organization, Direct File Organization, Hashing: Static Hash Functions and Dynamic Hash Functions.	12
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### **Text Books (List of books as mentioned in the approved syllabus)**

#### **Textbooks:**

1. Gary W. Hansen & James V. Hansen, "Database Management and Design", 2nd Ed., 2007, Prentice Hall of India Pvt Ltd.
2. Instructional Software Research & Development (ISRD) Group, Lucknow
3. "Introduction to Database Management Systems", 2006, Ace Series, Tata McGraw Hill Publishing Company Limited, New Delhi
4. Ramez Elmasri, Shamkant B. Navathe, "Fundamentals of Database Systems", 7th Edition, 2016, Pearson

#### **Reference Book:**

1. Raghu Ramakrishnan & Johannes Gehrke, "Database Management Systems", 3rd Edition, 2014, McGraw Hill Education
2. C.J. Date, "An Introduction to Database System", 8th Edition, 2003, Pearson
3. Abraham Silberschatz, Henry F. Korth, S. Sudharshan, "Database System Concepts", 6th Edition, 2010, Tata McGraw Hill
4. Books published by M.P. Hindi Granth Academy, Bhopal

Subject Name- Internet Application Using Java Programming	
Subject Type- Core	Subject Code- S2- BCAB2T

Unit-1	Topic	No. of Lecture
Unit-1	<p>The Java Environment:</p> <p>History and features of Java, C++ Vs java, OOPs concept, how java works, the concept of PATH and CLASS PATH, A simple program, its compilation and execution, JAVA Program Structure, Java Virtual Machine concepts, java platform overview, Primitive data types, variables and constants, operators, expression, statement-branching, looping and jumping, labeled statements.</p> <p>Object Oriented Programming in Java:</p> <p>Classes, objects and methods: defining a class, adding variables and methods, creating objects, constructor, Instances, field and methods initialization by constructors, Copy constructor, memory allocation and garbage collection in java keywords, access methods Arrays, String and String buffer classes, Wrapper classes, using the JDK tools.</p>	10
Unit-2	<p>Inheritance: Inheritance basics, Super class, Sub-class, Method overloading, abstract classes</p> <p>Interfaces: defining an interface, implementing &amp; applying interfaces, variables in interfaces, extending interfaces.</p> <p>Multithreading and Exception Handling: Basic idea of multithreaded programming;</p> <p>The lifecycle of a thread, Creating thread with the thread class and runnable interface, Thread synchronization, Thread scheduling, Basic idea of exception handling: The try, catch and throw, throws</p>	14
Unit-3	<p>Applet programming-Local and Remote Applets, Applet Vs Application, creating and executing java applets, inserting applets in a web page, java security, passing parameter to applets, Aligning the Display,HTML Tags &amp; Applet Tag, Getting Input from User.</p>	12

	The AWT: The class hierarchy of window fundamentals; The basic user interface components Label, Button, Check Box, Radio Button, Choice menu, Text area, Scroll list, Scroll bar; Frame; Layout managers-flow layout, Grid layout, Border layout, Card layout.	
Unit-4	<p>The Java Event Handling Model: Java's event delegation model ignoring the event, Self contained events, Delegating events, The event class hierarchy, The relationship between interface, methods called, parameters and event source; Adapter classes, Event classes action Event, Adjustment Event, Container Event, Focus Event, Item Event, Event, Mouse Event, Text Event, Window Event.</p> <p>Networking-basics, networking classes and interfaces, using java.net package, TCP/IP and datagram programming.</p>	12
Unit-5	<p>Input/ Output: Exploring Java i.o, Directories, stream classes</p> <p>The Byte Stream :Input stream, output stream, file input stream, file output stream, print stream, Random access file, the character streams, Buffered reader, buffered writer, print writer, serialization.JDBC: JDC-ODBC bridge, The connectivity model; The driver manager, Navigating the result set object contents, java.sql Package, The JDBC exception classes, Connecting to Remote database.</p>	12

#### **Text Books (List of books as mentioned in the approved syllabus)**

1. Programming with Java a primer by E. Balagurusamy.
2. Peter Norton's Guide to Java Programming, Techmedia Pub.
3. Schildtjava Complete Referenc`e TMH
4. Das Rashmikanta Core Java, IE, Vikas
5. Bansal Nitin, AjitKumar,A Simplified approach to Java Programming , KALYANI

#### **References**

1. Introduction to Java programming, By Y.DanielL iang,Pearson Publication.

<b>Subject Name- (IOT) Internet Of Things</b>	
<b>Subject Type- Generic Elective</b>	<b>Subject Code- S2-BCAC1G</b>

<b>Unit</b>	<b>Topic</b>	<b>No. Of. Lecture</b>
Unit-1	Introduction Definition, Characteristics of IOT, IOT Conceptual framework, IOT Architectural view, Physical design of IOT, Logical design of 10T, Application of 1OT.	8
Unit-2	Machine-to-machine (M2M), SDN (software defined networking) and NFV (network function virtualization) for IOT, data storage in IOT, IOT Cloud Based Services.	14
Unit-3	Design Principles for Web Connectivity: Web Communication Protocols for connected devices, Message Communication Protocols for connected devices, SOAP, REST, HTTP Restful and We Sockets. Internet Connectivity Principles: Internet Connectivity, Internet based communication, IP addressing in IOT, Media Access control	14
Unit-4	Sensor Technology, Participatory Sensing, Industrial IOT and Automotive 10T, Actuator, Sensor data Communication Protocols Radio Frequency Identification Technology, Wireless Sensor Network Technology.	12
Unit-5	IOT Design methodology: Specification - Requirement, process, model, service, functional & operational view 10T Privacy and security solutions, Raspberry Pi & arduina devices. IOT Case studies: smart city streetlights control & monitoring	12

**Text Books (List of books as mentioned in the approved syllabus)**

1. Rajkamal, "Internet of Things", Tata McGraw Hill publication..

2. HakimaChaouchi "The Internet of Things: Connecting Objects", Wiley publication.
3. Francis dacosta "Rethinking the Internet of things: A scalable Approach to connecting everything", 1st edition, Apress publications2013.
- 4.D. Norris, "The Internet of Things: Do-It-Yourself Projects with Arduino, Raspberry Pi, and Beagle Bone Black", McGraw-Hill Education

## References

- 1.Philip Levis,"TinyOS Programming"
2. D. Norris, "The Internet of Things: Do-It-Yourself Projects with Arduino, Raspberry Pi, and Beagle Bone Black", McGraw-Hill Education, New Delhi.

Subject Name- Web Development Using PHP & My SQ	
Subject Type- Vocational	Subject Code-

Unit	Topic	No. of. Lecture
<b>Unit-1</b>	<p>BASICS OF PHP: Introduction to PHP, PHP features, installation ofXAMPP/WAMP, Benefits of using PHP MYSQL, Server Client Environment, Web Browser, Web Server Installation &amp; Configuration Files.</p> <p>OOPS with PHP, language basics, syntax, comments, variables, constants and data types, expressions and operators, flow control statements, looping structures, Arrays</p> <p>Including html code in PHP, Embedding PHP in web pages.</p>	6
<b>Unit-2</b>	<p>FUNCTIONS &amp; STRINGS in PHP: Defining a function, Calling a function, variable scope, function parameters, return values, User Defined Function, System Defined Function, Parameterized Function, Date &amp; Time Function, Hash Function, Mail Function, predefined functions.</p> <p>Strings: Creating &amp; accessing string, searching and replacing strings, encoding and escaping, comparing strings, formatting strings, regular expression.</p>	6
<b>Unit-3</b>	<p>Data &amp; File Handling: PHP Forms: \$_GET, \$_POST, \$_REQUEST, \$_FILES, \$_SERVER, \$GLOBALS, \$_ENV, input/output controls,</p> <p>validation, Cookies and Sessions. File Handling: File and directory, open, close, read, write, append, delete, uploading and downloading files. File exists, File Size, Rename. Reading and display all/selected files present in a directory.</p>	6
<b>Unit-4</b>	<p>MySQL an Overview: Introduction, What is a Database, Understanding an RDBMS, Tables, Record &amp; Fields, SQL Language.</p> <p>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, date, calculations, working with NULL values, pattern matching, counting rows, using more than one tables, using table and column aliases.</p>	6
<b>Unit-5</b>	<p>MySQL DATABASES IN PHP: Introduction, connecting to a MySQL</p> <p>database, querying the database, Retrieving and displaying the results, modifying data and deleting data through front end. Designing applications using PHP &amp; MySQL</p>	6

#### Text Books, Reference Books, Other resources

1. Head First PHP & MySQL, Lynn Beighley & Michael Morrison, O'Reilly

2. PHP: A Beginner's Guide, Vikram Vaswani, McGraw-Hill Edition
3. Learning PHP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly
4. PHP and MySQL Web Development, Luke Welling, Addison-Wesley
5. The Joy of PHP, Alan Forbes, BeakCheck LLC
6. Learning PHP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites,