

BHAKTA KAVI NARSINH MEHTA UNIVERSITY**Major/Minor****Syllabus of B.C.A & B.Sc. (IT) (Honors with Research) as per NEP-2020****Faculty of Science****Effective from June 2026****Subject: Computer Science****SEMESTER- VIII****SUMMARY OF THE SYLLABUS**

Sem No.	Sr. No.	Category of Course	Course Title	Course Level	Credit	Teaching Hrs.	SEE Marks	CCE Marks	Total Marks	Exam Duration
Sem-8	1	Major-20	Frontend Development using Angular And Node.js (Theory)	6.0	Theory – 04	Theory – 60	50	50	100	2:00 Hrs
Sem-8	2	Major-21	Frontend Development using Angular And Node.js (Practical)	6.0	Practical – 04	Practical – 120	50	50	100	2:00 Hrs
	3	Major-22	Research Methodology 2	6.0	Theory – 04	Theory – 60	50	50	100	2:00 Hrs
	4	Minor-8	Digital Marketing and Search Engine Optimization (SEO)	6.0	Theory – 03 Practical – 01	Theory – 45 Practical – 30	50	50	100	2:00 Hrs
	5	RP	Research Project	6.0	06	-	As per BKNM University Guideline			

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Course Level	6.0	Internal Marks	50
Programme	Bachelor of Computer Application	External Marks	50
Semester	8	Practical Internal	0
Category of Course	Major-20	Practical External	0
Course Credit	4	Prac. External Exam Duration	-
Teaching Hours	Theory-60 Practical-0	Total	100
Course Code		Exam Duration	2:00 Hrs
Course Title	Frontend Development using Angular And Node.js (Theory)		

Objectives:

- Build a strong foundation in Angular framework concepts and architecture.
- Develop practical skills in creating reusable components, services, and modules.
- Gain proficiency in TypeScript as applied within Angular applications.
- Implement data binding, directives, and pipes for dynamic UI development.
- Design and manage navigation using Angular routing and lazy loading.
- Handle HTTP communication and integrate Angular applications with backend APIs.
- Develop secure applications using authentication mechanisms and route protection.
- Apply performance optimization techniques and build full-stack applications using MEAN architecture.

Outcomes:

- Ability to develop structured Angular applications using components, modules, and services. Proficiency in using TypeScript features within Angular projects.
- Capability to implement data binding, directives, and pipes effectively.
- Skill in configuring routing, lazy loading, and navigation in Angular applications.
- Ability to perform HTTP operations and integrate frontend with REST APIs.
- Competence in building and validating forms using template-driven and reactive approaches.
- Understanding of authentication workflows using JWT, route guards, and interceptors.
- Ability to optimize performance and develop a basic full-stack MEAN application.

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Course Contents

UNIT		Hours
Unit 1 Fundamentals & Core Concepts of AngularJS	• Introduction to Angular ○ What is AngularJS ○ Features and advantages ○ SPA (Single Page Application) concept ○ MVC Architecture (Model, View, Controller) • Environment Setup & First Application ○ Installation via CDN / Setup ○ Basic AngularJS application structure ○ First AngularJS program (Hello World) • AngularJS Basics ○ Expressions and Syntax ○ Modules (angular.module) ○ Controllers ○ Scope (\$scope) • Data Binding ○ One-way binding ○ Two-way data binding ○ Interpolation ({{ }}) • Directives (Core Concept) ○ Built-in directives: • ng-app, ng-model, ng-bind • ng-repeat, ng-if, ng-show ○ Custom directives (basic idea) • Filters ○ Built-in filters (currency, date, filter, orderBy) ○ Creating custom filters	15
Unit 2 Advanced AngularJS & Application Development	• Forms and Validation ○ Form controls ○ Form states (\$valid, \$invalid, \$touched) ○ Input validation techniques • Events and DOM Handling ○ AngularJS events (ng-click, ng-change) ○ DOM manipulation basics • Services ○ Built-in services (\$http, \$timeout) ○ Custom services ○ Introduction to REST API calling	15

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	• Dependency Injection ○ Concept and importance ○ Injecting services into controllers • Routing ○ Single Page Navigation ○ ngRoute module ○ Route configuration	
Unit 3 Node.js Core Modules & Server Development	• Node.js Modules (Core Concept) ○ CommonJS (require, module.exports) ○ Node Architecture ○ ES6 Modules (import, export) ○ Default & Named Exports ○ Module Caching • Core Modules in Node.js ○ File System (fs) → read/write files ○ HTTP Module → create server ○ OS Module → system info ○ Path Module • File System (fs Module – Practical) ○ Read file (readFile) ○ Write file (writeFile) ○ Append file ○ Delete file • Creating Server using HTTP Module ○ http.createServer() ○ Request (req) & Response (res) ○ Server setup & port handling • Event-Driven Architecture ○ Event Loop ○ EventEmitter ○ Async Programming	15
Unit 4 Express.js & Application Development	• Introduction to Express.js ○ What is Express ○ Why use Express over HTTP ○ Installation & setup • Routing in Node.js / Express ○ Routing using HTTP module ○ Routing using Express ○ app.get(), app.post() • Middleware in Express ○ What is middleware	15

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	○ Types: • Application-level • Router-level ○ Request processing flow ○ Node.js API Authentication • Handling Requests & Responses ○ req object ○ res object ○ Sending JSON & HTML responses • REST API Development ○ CRUD operations ○ HTTP Methods and Their Usage ○ GET, POST, PUT, DELETE ○ API structure • Database Integration (Basic Idea) ○ Install MongoDB Driver ○ Connecting Node.js with MongoDB ○ Creating a Database, Creating a Collection ○ MongoDB Insert / Fetch data ○ MongoDB Find, MongoDB Query , MongoDB Sort , MongoDB Delete • Mini Project (Full Application) ○ Build REST API ○ CRUD Application ○ Real-world backend project	
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Suggested Reading:

References Book:

- Angular Up & Running – Shyam Seshadri
- Learning Angular – Aristeidis Bampakos & Pablo Deeelman
- Pro Angular – Adam Freeman
- ng-book: The Complete Guide to Angular – Nathan Murray et al.

Web site References:

- <https://angular.io/>
- <https://nodejs.org/docs/latest/api/>
- <https://rxjs.dev/guide/overview>
- <https://expressjs.com/en/guide/routing.html>
- <https://www.geeksforgeeks.org/angular-js/angular-tutorial/>

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Course Level	6.0		Internal Marks	00
Programme	Bachelor of Computer Application		External Marks	00
Semester	8		Practical Internal	50
Category of Course	Major-21		Practical External	50
Course Credit	4		Prac. External Exam Duration	2:00 Hrs
Teaching Hours	Theory-0 Practical-120		Total	100
Course Code			Exam Duration	-
Course Title	Frontend Development using Angular And Node.js (Practical)			

Objectives:

- Build a strong foundation in Angular framework concepts and architecture.
- Develop practical skills in creating reusable components, services, and modules.
- Gain proficiency in TypeScript as applied within Angular applications.
- Implement data binding, directives, and pipes for dynamic UI development.
- Design and manage navigation using Angular routing and lazy loading.
- Handle HTTP communication and integrate Angular applications with backend APIs.
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Outcomes:

- Ability to develop structured Angular applications using components, modules, and services. Proficiency in using TypeScript features within Angular projects.
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Unit 2 Advanced AngularJS & Application Development	• Forms and Validation ○ Form controls ○ Form states (\$valid, \$invalid, \$touched) ○ Input validation techniques • Events and DOM Handling ○ AngularJS events (ng-click, ng-change) ○ DOM manipulation basics • Services ○ Built-in services (\$http, \$timeout) ○ Custom services ○ Introduction to REST API calling	30

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Suggested Reading:

References Book:

- Angular Up & Running – Shyam Seshadri
- Learning Angular – Aristeidis Bampakos & Pablo Deeelman
- Pro Angular – Adam Freeman
- ng-book: The Complete Guide to Angular – Nathan Murray et al.

Web site References:

- <https://angular.io/>
- <https://nodejs.org/docs/latest/api/>
- <https://rxjs.dev/guide/overview>
- <https://expressjs.com/en/guide/routing.html>
- <https://www.geeksforgeeks.org/angular-js/angular-tutorial/>

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Programme	Bachelor of Computer Application	External Marks	50
Semester	8	Practical Internal	0
Category of Course	Major-22	Practical External	0
Course Credit	4	Prac. External Exam Duration	-
Teaching Hours	Theory- 60 Practical-00	Total	100
Course Code		Exam Duration	2:00 Hrs
Course Title	Research Methodology 2		

Objectives:

- Understand scientific research methodology.
- Develop problem identification and research design skills.
- Apply ethical and systematic research practices.

Outcomes:

- Understand research concepts and scientific thinking.
- Design research methodology.
- Collect and analyse research data.
- Prepare academic research reports

Course Contents

Unit	Content	Teaching Hours
Unit 1 Measurement and Scaling	• Measurement concepts • Types of scales • Nominal. • Ordinal. • Interval. • Ratio. • Scaling techniques • Reliability and validity	15

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Unit 2 Data Processing and Statistical Analysis	• Data editing and coding • Data tabulation • Descriptive statistics: ➤ Mean. ➤ Median. ➤ Standard deviation. • Correlation and regression basics. • Hypothesis testing concepts.	15
Unit 3 Use of ICT Tools in Research	• Spreadsheet analysis. • SPSS introduction. • Python basics for data analysis. • Data visualization techniques.	15
Unit 4 Research Report Writing & Publication and Research Ethics	Research Report Writing: • Structure of dissertation: ➤ Abstract. ➤ Introduction. ➤ Methodology. ➤ Results. ➤ Conclusion. • Referencing and bibliography. • Report & Thesis formatting. Publication and Research Ethics: • Plagiarism. • Copyright. • Patent awareness. • Journal selection. • Predatory journals. • Research publication process	15

Suggested Reading:

❖ Practical Component:

- Data analysis using Excel/SPSS.
- Hypothesis testing exercises.
- Dissertation chapter preparation & Report formatting.

❖ Suggested Tools:

- MS Excel, SPSS, Python (Pandas), LaTeX or MS Word.

Reference Books:

- C. R. Kothari – Research Methodology: Methods and Techniques.
- Ranjit Kumar – Research Methodology.
- John Creswell – Research Design.

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Programme	Bachelor of Computer Application		External Marks	50
Semester	8		Practical Internal	25
Category of Course	Minor-8		Practical External	0
Course Credit	4		Prac. External Exam Duration	-
Teaching Hours	Theory-45 Practical-30		Total	100
Course Code			Exam Duration	2:00 Hrs
Course Title	Digital Marketing and Search Engine Optimization (SEO)			

Objectives:

- Understand the fundamentals of digital marketing, including its concepts, evolution from traditional marketing, key channels, and the marketing funnel with customer journey mapping.
- Develop knowledge of SEO principles, including search engine working, SERP structure, Google algorithms, and the difference between organic and paid results.
- Apply effective keyword research techniques by identifying keyword types, understanding search intent, analyzing competitors, and using keyword research tools.
- Implement on-page and technical SEO strategies such as optimizing title tags, meta descriptions, URL structures, site architecture, page speed, mobile usability, and Core Web Vitals.
- Analyze and execute off-page and local SEO techniques including backlink building, guest posting, local listings, NAP consistency, and review management.
- Design and manage digital marketing campaigns across SEM, social media, content marketing, email marketing, and affiliate/influencer marketing.
- Plan and optimize websites and e-commerce platforms using CMS tools, landing pages, conversion optimization, and advanced SEO strategies like voice search and AI integration.
- Measure and improve marketing performance using analytics tools, KPIs, campaign tracking, marketing automation, and hands-on practical implementation like website building and campaign execution.

Outcomes:

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- Explain core digital marketing concepts and differentiate between traditional and digital marketing, including understanding customer journeys and marketing funnels.
- Demonstrate understanding of SEO fundamentals by explaining search engine processes, SERP structure, and ranking factors.
- Perform keyword research effectively by identifying keyword types, analyzing search intent, and using industry tools for competitor analysis.
- Apply on-page and technical SEO techniques to optimize websites for better visibility, performance, and user experience.
- Execute off-page and local SEO strategies to improve domain authority, online presence, and local search rankings.
- Create and manage multi-channel digital marketing campaigns including SEM, social media, content, email, affiliate, and influencer marketing.
- Develop and optimize websites and e-commerce platforms using CMS tools, landing pages, and conversion optimization techniques.
- Analyze marketing performance and generate reports using analytics tools, KPIs, and automation techniques to improve campaign effectiveness.

Course Contents

UNIT		Hours
Unit 1 Digital Marketing and Search Engine Optimization (SEO)	Digital Marketing Basics: • What is Digital Marketing • Traditional vs Digital Marketing • Marketing Funnel & Customer Journey • Digital Marketing Channels Overview SEO Basics: • What is SEO • How Search Engines Work (Crawling, Indexing, Ranking) • Organic vs Paid Results • Google Algorithm Overview • SERP Basics Keyword Research: • Types of Keywords (Short-tail, Long-tail) • Search Intent • Competitor Analysis • Keyword Research Tools	15
Unit 2	On-Page SEO: • Title Tag Optimization	10

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SEO Optimization Techniques	• Meta Description Writing • URL Structure • Header Tags • Image Optimization • Internal Linking • Schema Markup Technical SEO: • Website Structure • XML Sitemap • Robots.txt • Canonical Tags • Page Speed Optimization • Mobile-Friendly Design • Core Web Vitals Off-Page SEO: • Backlinks • Guest Posting • Social Bookmarking • Directory Submission • Influencer Outreach Local SEO: • Google Business Profile Optimization • NAP Consistency • Local Citations • Reviews Management	
Unit 3 Digital Marketing Channels & Content Strategy	Search Engine Marketing (SEM): • Paid Advertising Basics • Campaign Types • Keyword Bidding Strategy • Ad Copywriting • Conversion Tracking Social Media Marketing (SMM): • Social Media Strategy • Content Planning • Organic vs Paid Marketing • Reels & Short Video Marketing • Ad Campaign Setup Content Marketing: • Content Strategy	10

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	• Blog Writing • Copywriting • Video Marketing • Storytelling Email Marketing: • Lead Generation • Email Automation • Sales Funnels • Email Campaign Strategy Content SEO: • Topic Clusters • E-E-A-T Concept • Content Audit	
Unit 4 Advanced Digital Marketing, Analytics & Applications	Advanced SEO: • E-commerce SEO • International SEO • Voice Search Optimization • AI & SEO • Algorithm Updates Affiliate Marketing: • Affiliate Basics • Commission Models • Tracking & Reporting Influencer Marketing: • Finding Influencers • Collaboration Strategy • Campaign Planning E-commerce Marketing: • Marketplace Marketing • E-commerce SEO • Conversion Optimization Website Planning: • Domain & Hosting • Landing Pages • CMS Basics (WordPress) Analytics & Reporting: • Understanding KPIs • Traffic Analysis • Conversion Tracking • Google Analytics & Search Console • Campaign Reporting Marketing Automation:	10

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	• CRM Basics • Chatbots • Retargeting Strategy Practical Components: • Build a Website • SEO Strategy Creation • Run Paid Ads Campaign • Create Social Media Calendar • Design Email Funnel • Monthly Marketing Report	
Practical		30

Suggested Reading:

References Book:

- Marketing Digital 2025: Innovative Strategies for a Connected World – Group Medina (2024)
- The Start-Up Founder’s Guide to Digital Marketing – Pramod Maloo (2025)
- Digital Marketing for Dummies (2025 Edition) – Ryan Deiss & Russ Henneberry
- Digital Marketing: Strategy, Implementation & Practice – Dave Chaffey & Fiona Ellis-Chadwick
- SEO Workbook (Latest Edition) – Jason McDonald

Web site References:

- Google Digital Garage – <https://learndigital.withgoogle.com/digitalgarage>
- HubSpot Academy – <https://academy.hubspot.com>
- Moz – <https://moz.com/learn/seo>
- SEMrush Academy – <https://www.semrush.com/academy>
- Neil Patel Blog – <https://neilpatel.com/blog>

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INTERNAL EVALUATION SCHEME		
NO	Particulars	Marks
1	Mid Semester Exam (Mandatory)	25
2	Class Test	05
3	Open book exam/test	05
4	Open note exam/test	05
5	Self-test/ Online test	05
6	Essay/Article writing	05
7	Quizzes/Objective test	05
8	Class assignment	05
9	Home assignment	05
10	Reports Writing	05
11	Research/Dissertation	05
12	Case Studies	05
13	Viva/Oral exam	05
14	Group Discussion	05
15	Role Play	05
16	Paper presentation/Seminar	05
17	Language Lab work	05
18	Interview	05
19	Craft work	05
20	Co-curricular work	05
21	Field Assignment	05
22	Poster Presentation	05
23	Attendance	05
24	Project Work	05
	Total	50

Note: Sr.No.1 is mandatory. Select any five from Sr.No.2 to 24. Each Contains five marks. Student should secure 18 Marks for passing in internal Exam.

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Paper Style

Ques. No.	Particulars	From which Unit	Marks
1	Questions (Any Two Out Of Four)	1	10
2	Questions (Any Two Out Of Four)	2	10
3	Questions (Any Two Out Of Four)	3	10
4	Questions (Any Two Out Of Four)	4	10
5	Questions (Any Two Out Of Four)	From Each Unit	10
		Total Marks	50