

**DEPARTMENT OF COMPUTER SCIENCE**  
**Dyal Singh College, University of Delhi**

(ACADEMIC SESSION, 2023-24)

**Course: B.Sc. (H) Computer Science (V Semester)**  
**Paper Code and Name: 32341501, Internet Technologies (TH)**

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**FACULTY**

**Name of Teacher: Ms. Rashmi Yadav**

**Contact : 9999304358**

**Email: rashmiyadav@dsc.du.ac.in**

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**ASSESSMENT DETAILS**

**Total Marks for the paper is 150, comprising following components**

- **Attendance – 5 marks**
  - **Individual Assignment – 10 marks**
  - **Test/ Presentation – 10 marks**
  - **End-term Theory Examination- 75 marks**
  - **Internal Practical Assessment- 25 marks**
  - **End-term Practical Examination- 25 marks**
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**TEACHING PLAN**

<b>Week</b>	<b>Topics Covered/ Assignments/ Test/Presentations</b>
1-3	Javascript
4-5	jQuery
6-7	JSON, Ajax
8	BOOTSTRAP
9-10	NODE.js, <b>Test</b>
11	Network address translation, Subnet Masking, Dynamic and Static Routing
12	Difference between Intranet and Internet, Working of Internet, Domain Name Server, Networking tools - ipconfig, ping, netstat, traceroute, Introduction to forums, blogging, portfolio, Developing a responsive website, combining Web Applications and Mobile Applications
13-14	Search Engines - components, working, optimization, Crawling, BOTS, introduction to cookies and sessions, e-commerce websites and e-carts, introduction to Internet Protocols - HTTP, HTTPS, FTP, SMTP, IMAP, POP3, VoIP, Server-side Technologies and hybrid technologies, <b>Assignment</b>
15	Web Servers: Working, Configuring, Hosting and Managing a Web server Proxy Servers: Working, Type of Proxies, setting up and managing a proxy server, Client-side Technologies



## DEPARTMENT OF COMPUTER SCIENCE

Dyal Singh College, University of Delhi

(ACADEMIC SESSION, 2023-24)

Course: General Elective Computer Science (I Semester)

Paper Code and Name: 2344001102, Programming with Python (TH)

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### ASSESSMENT DETAILS

Total Marks for the paper is 160, comprising following components

- Attendance – 6 marks
  - Individual Assignment – 12 marks
  - Test/ Presentation – 12 marks
  - Theory Exam- 90 marks
  - Practical Exam- 40 marks
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### TEACHING PLAN FOR THEORY

(Theory on sharing basis – Following teaching plan is in accordance with 2 theory periods allocated per week)

Week	Topics Covered/ Assignments/ Test/Presentations
1-2	Functions
3-5	Control Structures
6-8	Strings
9-11	Lists, <b>Test</b>
12-13	Sets
14	Tuples, <b>Assignment</b>
15	Dictionary

## DEPARTMENT OF COMPUTER SCIENCE

Dyal Singh College, University of Delhi

(ACADEMIC SESSION, 2023-24)

Course: B.Sc. Physical Science with Computer Science (I Semester)  
Paper Code and Name: 2342571101, Programming Fundamentals using C++ (TH)

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### ASSESSMENT DETAILS

Total Marks for the paper is 160, comprising following components

- Attendance – 6 marks
  - Individual Assignment – 12 marks
  - Test/ Presentation – 12 marks
  - Theory Exam- 90 marks
  - Practical Exam- 40 marks
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### TEACHING PLAN FOR THEORY

(Theory on sharing basis – Following teaching plan is in accordance with 1 theory period allocated per week)

Weeks	Topics Covered/ Assignments/ Test/Presentations
1-3	Basics- Tokens, Expressions, Operators
4-6	Control Structures- if-else, switch, loops
7-8	Function Overloading
9	Command-line arguments
10-12	Constructors and destructors, dynamic initialisation
13-15	Exception Handling