



SKY VISION COLLEGE
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WEB APPLICATION DEVELOPMENT

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Web Application Development Diploma Programme

1. Operating System

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|--------------------------------|------------------------|-----------------------|
| 1.1 Operating Systems Overview | 1.3 Threads | 1.5 Memory Management |
| 1.2 Multi-Tasking | 1.4 Process Management | 1.6 File Management |

2. Programming Fundamentals

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| 2.1 Algorithm & Data structures | 2.3 Arrays and Strings | 2.5 Files Handling |
| 2.2 Selection and Control Structures | 2.4 Functions | |

3. Object Oriented concepts

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| 3.1 Beginning with Object-Oriented concepts | 3.3 Encapsulation and Abstraction | 3.5 Basic Hands-on Activity |
| 3.2 Classes & Objects | 3.4 Inheritance and Polymorphism | |

4. HTML

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|------------------------|----------------------------------|----------------------------|
| 4.1 Basic HTML | 4.7 HTML5 - SVG | 4.13 HTML5 - Canvas |
| 4.2 HTML5 - Overview | 4.8 HTML5 - MathML | 4.14 HTML5 - Audio & Video |
| 4.3 HTML5 - Systax | 4.9 HTML5 - Web Storage | 4.15 HTML5 - Geolocation |
| 4.4 HTML5 - Attributes | 4.10 HTML5 - Web SQL | 4.16 HTML5 - Microdata |
| 4.5 HTML5 - Events | 4.11 HTML5 - Server- Sent Events | 4.17 HTML5 - Drag & Drop |
| 4.6 HTML5 - Web Forms | 4.12 HTML5 - WebSocket | 4.18 HTML5 - Web Workers |

5. CSS

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|----------------------|-----------------------------|-------------------------|
| 5.1 css id and class | 5.8 css div concept | 5.15 css positioning |
| 5.2 css background | 5.9 css box model | 5.16 css floating |
| 5.3 css text | 5.10 css padding and margin | 5.17 css align |
| 5.4 cs fonts | 5.11 css border and outline | 5.18 css image gallery |
| 5.5 css links | 5.12 css group/nesting | 5.19 css image opacity |
| 5.6 css lists | 5.13 css dimension | 5.20 css image sprites |
| 5.7 css tables | 5.14 css display | 5.21 css media types |
| | | 5.22 css attr selectors |

6. MYSQL

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|---|------------------------------------|
| 6.1 Theory, Terminology and Concepts and Architecture | 6.7 Subquery |
| 6.2 Data Definition using SQL | 6.8 Transactions |
| 6.3 Querying for Data | 6.9 Import/Export |
| 6.4 Set Operators | 6.10 MySQL Application Development |
| 6.5 Modifying Data | 6.11 Basic Optimization |
| 6.6 Joins | |

7. Adobe Photoshop

- 7.1 Essential Photoshop skills to Manipulate, Combine and mask digital images

8. PHP

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| 8.1 Introduction of Web & PHP | 8.11 Building a Content Management System (CMS) |
| 8.2 Exploring Data Types | 8.12 Using Site Navigation to Choose Content |
| 8.3 Control Structures: Logical Expressions | 8.13 Application CRUD |
| 8.4 Control Structures: Loops | 8.14 Building the Public Area |
| 8.5 User-Defined Functions | 8.15 Regulating Page Access |
| 8.6 Debugging | 8.16 Advanced PHP Techniques |
| 8.7 Building Web Pages with PHP | 8.17 Introduction to Object-Oriented Programming (OOP) |
| 8.8 Working with Forms and Form Data | 8.18 OOP in Practice |
| 8.9 Working with Cookies and Sessions | 8.19 Working with Files and Directories |
| 8.10 Using PHP to Access MySQL | 8.20 Sending Emails |

9. JOOMLA

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| 9.1 Installing Wamp Server | 9.19 Installing a New Template |
| 9.2 Installing Joomla on local server | 9.20 Installing a New Plugin |
| 9.3 Installing Joomla on web server | 9.21 Installing a New Component |
| 9.4 Joomla Global Configuration | 9.22 Understanding the concept of Joomla Positions |
| 9.5 Article Manager | 9.23 Changing the layout structure by changing the module position |
| 9.6 Archive Manager | 9.24 Understanding Basic Joomla Template |
| 9.7 Frontpage Manager | 9.25 Customizing Joomla Template |
| 9.8 Section Manager | 9.26 Building Custom Joomla Template |
| 9.9 Category Manager | 9.27 Understanding templateDetails.xml File |
| 9.10 Media Manager | 9.28 Creating templateDetails.xml File using tmpl_builder |
| 9.11 Menu Manager | 9.29 Linking CSS |
| 9.12 Component Manager | 9.30 Linking Javascript |
| 9.13 Content Manager | 9.31 Understanding <jdoc> include |
| 9.14 Extensions Manager | 9.32 Displaying content in XHTML |
| 9.15 Module Manager | 9.33 Creating template installation package |
| 9.16 Plugin Manager | 9.34 Creating Custom Forms |
| 9.17 Template Manager | 9.35 Changing the Form appearance using CSS |
| 9.18 Installing a New Module | |

10. Drupal

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|---------------------------|------------------------------------|
| 10.1 Drupal Overview | 10.5 Basic Drupal Modules Overview |
| 10.2 Drupal Installation | 10.6 Content Types |
| 10.3 Adding new modules | 10.7 Content Creation Kit (CCK) |
| 10.4 Updating new modules | 10.8 Users and Roles |

11. Building Social Networking Application in Drupal

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|---|------------------------|
| 11.1 Social Networking in Drupal Overview | 11.5 Buddylist/Friends |
| 11.2 User Profiles | 11.6 Groups |
| 11.3 Images and Photo Galleries | 11.7 Events |
| 11.4 Forum | 11.8 Search Facility |



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