



Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Institute of Management Studies
and Research, Satara

Certificate Courses



DEPARTMENT OF COMPUTER
INFORMATION BROCHURE



Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Institute of Management
Studies and Research, Varye, Satara.

Certificate Course in Computer Hardware and Networking

Objective of Course:

To provide practical knowledge to students about PC Maintenance and Troubleshooting. This course is designed to get expertise in PC maintenance.

Course Details:

Duration –80 Hrs.

Timing :10.00 AM to 4.00PM (Every Saturday)

Intake - 30 Students.

Medium of Instruction- English

Evolution: After completion of course issued certificate based on their performance.

Fees: Prescribed by Institute

Course Highlights:

- Participants are encouraged to think and come up with new ideas.
- Interactive lecture section.
- Group discussion to encourage innovation.
- Career guidance by experienced faculty.

Syllabus of Hardware and Networking:

Sr.	Units	Lectures
1	<p style="text-align: center;">Hardware</p> <p>A. Introduction of computer components.</p> <ol style="list-style-type: none"> 1. Mother board / Mainboard 2. Storage Devices (HDD, CD, DVD, floppy etc.) 3. Memory 4. Display Unit 5. Keyboard, Mouse 	10
2	<p>B. Hardware Installation, Problems and Troubleshooting. (Pc assembling)</p> <ol style="list-style-type: none"> 1. Mother board Installation 2. SMPS Installation 3. RAM, HDD installation 4. Printer Installation. 	15
3	<p>C. Installation of Operating System, Application software's and Troubleshooting.</p> <ol style="list-style-type: none"> 1. XP Installation 2. Win 7 Installation 3. Drivers Installation 4. MS Office Installation 5. Other Software (PDF, Media Player) 	15
4	<p style="text-align: center;">Networking</p> <p>A. Introduction Of network Types of Networks</p> <ol style="list-style-type: none"> 1. LAN 2. WAN 3. MAN 	05
5	<p>B. Networks Components</p> <ol style="list-style-type: none"> 1. Modem 2. Switch 3. Hub 4. Different cables 	05
6	<p>C. Cable crimping and Network Parts Installation.</p> <ol style="list-style-type: none"> 1. Switch Installation 2. Assign IP 3. Create a workgroup. 4. Network printer Installation. 5. Modem Installation. 	10
7	<p>A. Network Problems and Troubleshooting.</p>	10

Structure of Hardware and Networking Course:

Number of lectures required for Certificate Course in Computer Hardware and Networking.

Name of Unit	Theory	Practical	No of lectures
Unit 1 -Hardware	15	25	40
Unit 2 - Networking	15	15	30
Total	30	40	70

Faculty:

Sr	Name of Faculty	Age	Qualification	Experience	Subject Taught	Duration of Employment at institute
1.	Mr.Y.A.Chorage	30	Diploma	10 yrs.	Hardware and Networking	5 Years
2.	Mrs.S.J.Dhanawade	24	MCA	1yrs. Industrial 2 yrs.Teaching	Computer components	1 Years
3.	Mrs.P.M.Shelar	29	MCA	1yrs. Teaching	Types of Networks	1 Years

Nature of Examination:

1. Medium of information shall be ENGLISH. Question paper and answer papers should be only English language.
2. Examination shall be of 100 marks.
3. Nature of examination question paper shall be as follows:

Internal Examination: 20 Marks.

1. Oral Test 10 Marks.
2. Group Exercise 10 Marks.

Theory Examination 80 Marks.

Standard of Passing:

- a. Candidate is required to secure minimum 40% marks in internal examination and 50% marks in Theory examination.
- b. Subject to the condition of pass at the course to the condition only-
50% and above but less than 60% -B Grade
60% and above but less than 70% -A Grade
70% and above - O Grade

“Certificate Course in Android Application Development”

Objective of the Course:

To provide practical knowledge to students about android development. This course is designed to get expertise in android application.

Course Details:

Duration :80 Hours

Timing :10.00 AM to 4.00PM (Every Saturday)

Intake -30 Students

Medium of Instruction- English

Evolution: After completion of course issued certificate based on their performance.

Fees: Prescribed by Institute

Course Highlights:

- Participants will be able to develop their own android applications.
- Participants will understand working of various android application.
- Participants are encouraged to think and come up with new application ideas.
- Interactive lecture section.
- Group discussion to encourage innovation.
- Good multimedia content to help student grasp the material easily.
- Career guidance by experienced faculty.

Syllabus of Certificate Course in Android Application Development:

Sr.	Topics Name	Lectures
1	Introduction to Mobile Application Development Introduction to Mobile Computing, Factors in Developing Mobile Applications, Storing and Retrieving Data, Communications Via Network and the Web, Telephony, Notifications and Alarms.	12
2	Intents and Services Android Intents and Services, Characteristics of Mobile Applications, Successful Mobile Development	08
3	Introduction to Android SDK and its setup Android development Framework - Android-SDK, Eclipse, Emulators – What is an Emulator / Android AVD , Creating & setting up custom Android emulator, Android Project Framework	10

4	Design User Interface Simple UI -Layouts and Layout properties- Fundamental Android UI Design, Introducing Layouts, Creating new Layouts, Draw able Resources, Resolution and density independence (px,dip,dp,sip,sp), XML Introduction to GUI objects	10
5	Advanced UI Programming Event driven Programming in Android (Text Edit, Button clicked etc, Creating a splash screen, Event driven Programming in Android, Android Activity Lifecycle, Creating threads for gaming requirement, Understanding the Exception handler	10
6	Toast, Menu, Dialog, List and Adapters What is Menu? Custom Vs. System Menus, Creating and Using Handset menu Button (Hardware), What are Android Themes, What is Dialog? How to create an Alter Dialog? What is Toast in Android? List & Adapters Manifest.xml File Update,	10
7	Multimedia Programming using Android- Multimedia audio formats - Creating and Playing Multimedia audio formats - Kill / Releasing (Memory Management) How to associate audio in any application How to associate video playback with an event	10
8	Database – SQLite- Introducing SQLite SQLite Open Helper and creating a database Opening and closing a database Working with cursors Inserts, updates, and deletes	10

Structure of Android Application Development Course:

Number of lectures required for Certificate Course in Android Application Development:-

Name of Unit	Theory	Practical	No of lectures
Introduction to Mobile Application Development	6	6	12
Intents and Services	4	4	08
Introduction to Android SDK and its setup	4	6	10
Design User Interface	2	8	10
Advanced UI Programming	4	6	10
Toast, Menu, Dialog, List and Adapters	2	8	10
Multimedia Programming using Android-	4	6	10
Database – SQLite	4	6	10
Total	30	50	80

Faculty:

Sr .	Name of Faculty	Age	Qualification	Experience	Subject Taught	Duration of Employment at institute
1.	Dr. Rahul Jadhav	35	MCA	10 yrs.	Android Development	-

Nature of Examination:

1. Medium of information shall be ENGLISH. Question paper and answer papers should be only English language.
2. Examination shall be of 100 marks.
3. Nature of examination question paper shall be as follows:

Internal Examination:	20 Marks.
1. Oral Test	10 Marks.
2. Group Exercise	10 Marks.
Theory Examination	80 Marks.

Standard of Passing:

- c. Candidate is required to secure minimum 40% marks in internal examination and 50% marks in Theory examination.
- d. Subject to the condition of pass at the course to the condition only-
50% and above but less than 60% -B Grade
60% and above but less than 70% -A Grade
70% and above - O Grade
