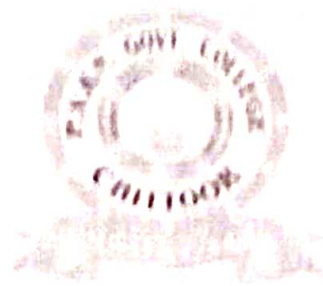


**PVKN GOVT. COLLEGE (AUTONOMOUS)
CHITTOOR**



**BOARD OF STUDIES
MINUTES OF THE MEETING**

**DEPARTMENT OF COMPUTER
APPLICATIONS**



PVKN Govt. College(A), Chittoor

Department of Computer Applications

BOARD OF STUDIES MEMBERS

| Category | Name of the Member |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| BOS Chairman | Sri. M.Samuel John Lecturer in Computer Science PVKN Govt. College(A), Chittoor Mobile: 9849400846 Mail ID: write2samuel@gmail.com |
| Faculty Members of the Department | - |
| External members | |
| Two subject experts from outside parent university nominated by Academic Council | 1. Dr. Jasmine Norman, Associate Professor, Dept. of Information Technology VIT, Vellore Mobile: 09444210125 Mail ID: jasmine@vit.ac.in |
| | 2. Dr. J. Gitanjali, Asst. Professor Dept. of Information Technology VIT, Vellore Mobile: 09790101549 Mail ID: gitanjalij@vit.ac.in |
| University nominee | Prof. G. Anjan Babu, Department of Computer Science, Sri Venkateswara University, Tirupati. Mobile: 9959168462 Mail ID : gabsvu@gmail.com |
| Representative from Industry/Corporate sector/Allied area | N.Naresh Kumar Amma Infotech Chittoor. Mobile: 9032694654 Mail ID : naresh@ammainfotech.com, admin@nklocalisations.com |
| One meritorious Alumnus | R. Madhan Babu, MBA HR in Asistmi Solutions Pvt Ltd Mobile: 9000110081 Mail ID : rmbabul7@gmail.com |

N. Naresh Kumar
Signature of the
Members

Signature of the BOS
Chairman

Signature of the BOS
Chairman

J. Gitanjali
R. Madhan



PVKN Govt. College (A), Chittoor

**Department of Computer Applications
BOARD OF STUDIES MEETING - I**

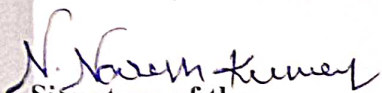
DATE: 18.02.2019

TIME: 10 A.M

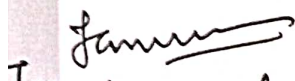

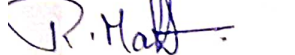
MINUTES OF THE MEETING

Agenda

1. Approval for UG Course structure of B.Com (COMPUTER APPLICATIONS)
2. Ratification for changes in the UG(B.Com) I Semester paper entitled Fundamentals of Computers, model question paper and blue print
3. Approval for changes in the UG (B.Com) II Semester paper entitled Fundamentals of Operating Systems Syllabus, model question paper and blue print
4. Panel of question paper setters and examiners
5. Pedagogy of Teaching - Learning as per UGC guidelines
6. Additional inputs to the curriculum
7. Internal assessment component and additional credits for extra-curricular activities.
8. Evaluation and assessment pattern
9. Other academic and extra-curricular activities of the department
10. Any other proposal


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Chairman





PVKN Govt. College(A), Chittoor

BOARD OF STUDIES MEETING on 18-02-2019

Department of Computer Applications

Resolutions

1. The college was conferred with autonomy by the UGC in the month of July, 2018. Subsequently, the college submitted letters to the parent university, UGC and to the Govt. of AP for constitution of Statutory Bodies and release of notification by the affiliating university. The Registrar, S.V. University issued notification and directed to implement autonomy from the academic year 2018-19. The college prepared its own academic schedule after the conferment of autonomy. Accordingly, the college has been implementing autonomy for I year degree I semester students from the date of issuance of notification on adhoc basis following the academic regulations of the parent university and covered the prescribed syllabus in the first semester by making certain changes. The examinations for I semester were also conducted by the college as per the regulations of the UGC. The syllabus, course structure, model question papers and blue print are placed before the committee for ratification.

It is resolved to ratify the decisions taken at college level till the date of BOS meeting.

2. As per the academic schedule for II semester of I year students was started on 22-11-2018 and the academic instruction has been given to the students as per the syllabus designed by the internal BOS members. It is placed before the committee for constructive suggestions for further improvement keeping in view the local needs / market demand / industry-needs / employment generation as per the UGC Regulations 2018. The syllabus covered from 22-11-2018 is placed before the committee for ratification. From the date of BOS meeting, the remaining syllabus for I year II semester is approved.
3. Resolved to ratify the panel of question paper setters nominated for UG I year semester I examinations.

4. Resolved to follow the pedagogy of teaching / learning strategies as per the UGC guidelines.

- Moodle MOOC courses for certificate programs
- Use of open-source tool "SCHOOLGY" for internal evaluation and material uploading
- Arranging virtual class sessions for our students
- Teaching through ICT enabled class rooms

5. Resolved to use additional inputs to enrich the curriculum and enlighten the students on academic performance.

- Running certificate programs as part of curriculum to acquire additional credits for students (100 Marks with 4 Credits)

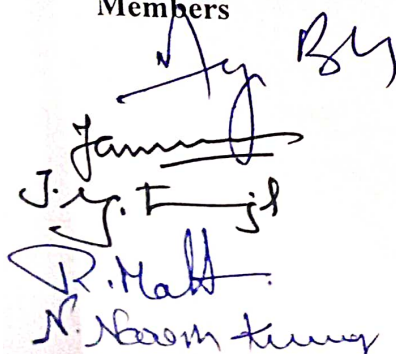
6. To include internal assessment components and additional credits for extra curricular activities of the students.

- Students are encouraged to participate in any one of the extra-curricular activities as mandatory (NCC /NSS /WEC /YRC /Yoga /Cultural/ Sports/ Community Outreach Programs) 30 Marks

7. To follow the evaluation and assessment pattern strictly adhering the UGC norms and guidelines.

- Internal assessment should be conducted for 30Marks and external exam should be conducted for 70Marks from the next academic year (2019-2020) onwards with necessary approval.

Signature of the
Members


J. P. T. Jil
R. H. H.
N. N. N. N.

Signature of the BOS
Chairman





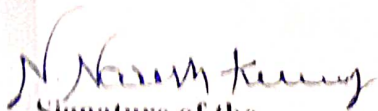
PVKN Govt. College (A), Chittoor


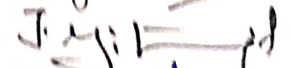
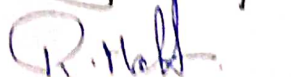
Department of Computer Applications

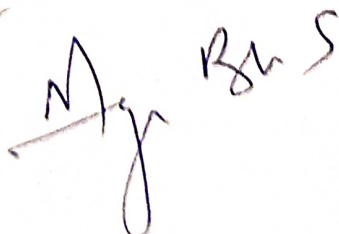
COURSE STRUCTURE


COURSE: B.COM (COMPUTER APPLICATIONS)

| Year | Paper Code | Subject | Hrs | Credits | Internal | External | Total |
|------------|-------------|---------------------------------------|-----|---------|----------|----------|-------|
| FIRST YEAR | | | | | | | |
| | 18-CAP-101 | Fundamentals of Computers | 4 | 4 | 25 | 75 | 100 |
| | 18-CAP-101P | Fundamentals of Computers Lab | 2 | 2 | - | 50 | 50 |
| | 18-CAP-201 | Fundamentals of Operating Systems | 4 | 4 | 25 | 75 | 100 |
| | 18-CAP-201P | Fundamentals of Operating Systems Lab | 2 | 2 | - | 50 | 50 |


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NEW

PVKN Govt. College (A), Chittoor

B.Com (Computer Applications) - I YEAR, SEMESTER - I

FUNDAMENTALS OF COMPUTERS

Subject Code: 18-CAP-101

Credits: 04

Teaching Hrs/Week : 4

SYLLABUS

Course Outcomes

Upon successful completion of this course, students will be able to understand the working of a computer and its uses in various fields. They would develop familiarity in various internal parts of a Computer and understand the functioning of a variety of input and output devices. They will be able to protect their computer by installing anti-virus software and also apply their skills to assemble a computer system.

UNIT I

Exploring Computers and Their Users:

An Overview of Computer System: Define Computer- Computers for Individual Users – Computer for organizations- Importance of computers.

Inside the Computer System

Describe the Machine- Parts of a Computer System – Hardware, Software, Data, Users – Information Processing cycle – essential Computer Hardware – Processing Devices- Memory Devices- System software – application Software.

UNIT II

Input Devices: The Keyboard , The mouse, The track ball, Scanner. **Output Devices:** Monitors– CRT monitors , Flat Panel Monitors ; PC projectors **Sound Systems** –Audio & Video devices (Multi-Media Device) ; **Hard copy devices** – Dot matrix printers , Ink Jet Printers , Laser Printers , Plotters.

UNIT III

Processing Data: How Computer process data- Data representation, and Data processing in a computer. **Modern CPU's:** Microcomputer Processors- Intel , AMD, Freescale, IBM processors, Connecting computer to other devices – The Bus, Serial and Parallel ports , SCSI , MIDI , and other specialized expansion ports, Expansion slots and boards.

UNIT IV

Storing Information in a Computer: Magnetic Disks – hard disk , Floppy disk, Optical Storage devices – CDROM , DVD ROM , CD – Recordable , CD – Rewritable.

UNIT V

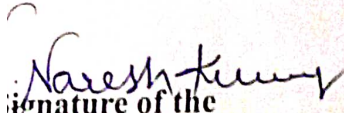
How to Build a Computer: Knowing Computer Hardware Parts – Cataloging and purchasing the parts – Assembling the System –The first Boot –Installing Software – Maintenance of Computer- Anti-virus software: what is a virus?- Types of Viruses, Common Virus Symptoms, Various anti-virus software, Installing anti-virus software.

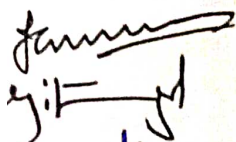
TEXT BOOKS :

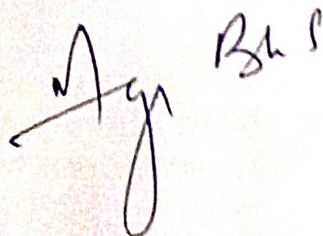
1. Peter Norton , Introduction to Computers , 7th Edition , Tata McGraw – Hill , 2017 .
2. Jacob Beckerman , How to Build a Computer 2014-15: Learn, Select Parts, Assemble, and Install: A Step by Step Guide to Your First Homebuilt.
3. Computer Viruses for Dummies By Peter H. Gregory, Wiley.

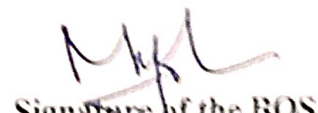
REFERENCE BOOKS :

1. Leon A and Leon M, Computers for Everyone, Leon Vikas, 2001 .


Signature of the
Members


J. R. Hall


B. S. S.


Signature of the BOS
Chairman



OLD

P.V.V.N. Govt. College (A), Chittoor

B.Com (Computer Applications) - I YEAR, SEMESTER - I

FUNDAMENTALS OF COMPUTERS

Subject Code: 18CAP-101

Credits: 04

Teaching Hrs/Week : 4

SYLLABUS

Course Outcome

Upon successful completion of this course, students will be able to understand the working of a computer and its uses in various fields. They would develop familiarity in various internal parts of a Computer and understand the functioning of a variety of input and output devices. They will apply their skills to assemble a computer system.

UNIT I

Exploring Computers and Their Users:

An Overview of Computer System: Define Computer- Computers for Individual Users – Computer for organizations- Importance of computers.

Inside the Computer System

Describe the Machine- Parts of a Computer System – Hardware, Software, Data, Users – Information Processing cycle – essential Computer Hardware – Processing Devices- Memory Devices- Input/Output Device- System software – application Software.

UNIT II

Input Devices: The Keyboard, The mouse, The track ball, Scanner. **Output Devices:** Monitors– CRT monitors, Flat Panel Monitors; PC projectors **Sound Systems** –Audio & Video devices (Multi-Media Device); **Hard copy devices** – Dot matrix printers, Ink Jet Printers, Laser Printers, Plotters.

UNIT III

Processing Data : How Computer process data- Data representation, and Data processing in a computer. **Modern CPU's:** Microcomputer Processors- Intel, AMD, Freescale, IBM processors- Types of Processors-RISC Processors,- Connecting computer to other devices – The Bus, Serial and Parallel ports, SCSI, MIDI, and other specialized expansion ports, Expansion slots and boards.

UNIT IV

Storing Information in a Computer : Magnetic Disks – hard disk , Floppy disk, Optical Storage devices – CDROM , DVD ROM , CD – Recordable , CD – Rewritable.

UNIT V


How to Build a Computer: Knowing Computer Hardware Parts – Cataloging and purchasing the parts – Assembling the System –The first Boot –Installing Software – Maintenance of Computer- Mobile Operating System- Types of Mobile Operating Systems.


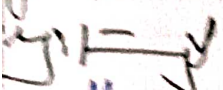

TEXT BOOKS :


1. Peter Norton , Introduction to Computers , 6th Edition , Tata McGraw – Hill , 2008 .
2. Jacob Beckerman , How to Build a Computer 2014-15: Learn, Select Parts, Assemble, and Install: A Step by Step Guide to Your First Homebuilt.

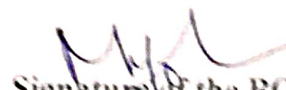
REFERENCE BOOKS :

1. Leon A and Leon M, Computers for Everyone , Leon Vikas , 2001 .


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PVRN Govt. College(A), Chittoor
I B.Com Computer Applications Semester - I
(Fundamentals of Computers)

NEW

Subject Code: 18-CAP-101

Time : 3 hrs

Max Marks : 75 M

MODEL QUESTION PAPER
SECTION-A

Answer any Five of the following Questions

(5 x 3 = 15 Marks)

- (a) Applications of computer
- (b) Any three Characteristics of Computer
- (c) Memory cards
- (d) Processor
- (e) GUI
- (f) Serial Bus
- (g) PCI cards
- (h) Processing Data
- (i) RAM
- (j) Flash memory

SECTION - B

Answer any ONE Question from each unit, (5 x 12 = 60 marks)

UNIT I

2. Define computer and explain the Organization of computer?
3. Explain about parts of the computer?

UNIT - II

4. Explain about keyboard and pointing devices.
5. Explain output devices CRT monitors and Printers.

UNIT - III

6. Explain Data processing and how the data is represented in computer?
7. Explain different types of memory?

UNIT - IV

8. Explain about Magnetic storage devices.
9. Explain Optical storage devices and USB Flash devices?

UNIT - V

10. What is booting? Explain deferent steps for assembling computer.
11. What are the parts are needed to build a computer? Explain.

N. Naresh Kumar
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Signature of the BOS
Chairman

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J. G. F. J.
[Signature]
R. Hall

**NEW****PVKN Govt. College(A), Chittoor**I B.Com Computer Applications; Semester – I
(Fundamentals of Computers)

Subject Code: 18-CAP-101

BLUE PRINT FOR THE MODEL PAPER

| S. No. | Type of Question | To be given in the Question Paper | | | To be answered | | |
|-------------|----------------------------------|-----------------------------------|---------------------------------|-------------|------------------|---------------------------------|-------------|
| | | No. of Questions | Marks allotted to each question | Total Marks | No. of Questions | Marks allotted to each question | Total Marks |
| 1 | Section - A (Short Questions) | 10 | 3 | 30 | 5 | 3 | 15 |
| 2 | Section - B (Essay Questions) | 10 | 12 | 120 | 5 | 12 | 60 |
| Total Marks | | | | 150 | Total Marks | | 75 |

BLUE PRINT FOR THE QUESTION PAPER SETTING

| Chapter Name | Essay Question 12 Marks | Short Questions 3 Marks | Marks allotted to the Chapter |
|------------------------|----------------------------|----------------------------|----------------------------------|
| UNIT - I | 2 | 2 | 30 |
| UNIT - II | 2 | 2 | 30 |
| UNIT - III | 2 | 2 | 30 |
| UNIT - IV | 2 | 2 | 30 |
| UNIT - V | 2 | 2 | 30 |
| Total No. of Questions | 10 | 10 | 150 |

N. Narayana Kumar
Signature of the
Members

M. J. B. S.

M. J. B. S.
Signature of the BOS
Chairman

J. S. P. J.
R. Mah.



OLD

PVKN Govt. College(A), Chittoor

I B.Com Computer Applications; Semester – I
(Fundamentals of Computers Lab)

Subject Code: 18-CAP-101P

Credits: 02

Lab Hrs/Week : 2

PRACTICALS SYLLABUS

List of Experiments/Programs:

1. Overview of Operating Systems
2. File Management
3. MS-DOS Operating System
4. MS-DOS Internal commands
5. MS-DOS External commands
6. Unix Architecture
7. UNIX Commands
8. Features of Android
9. Categories of Android Applications

The duration of each practical examination is 3 hrs with 50 marks, which are to be distributed as 30 marks for experiment, 10 mark for viva and 10 marks for record.

Practicals

Experiment
Viva-Voce
Record

50 marks

30
10
10

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NEW

PVKN Govt. College(A), Chittoor

I B.Com Computer Applications: Semester – I
(Fundamentals of Computers Lab)

Subject Code: IS-CAP-101P

Credits: 02

Lab Hrs/Week : 2

PRACTICALS SYLLABUS

List of Experiments/Programs:

1. Understanding the standard computer components: Mother Board, Power Supply, CPU, RAM, Disk Drives, Video Card, NIC, etc
2. Connecting devices to the computer: Key Board, Mouse, Printer, Scanner
3. Types of Printers: Dot Matrix Printers, Ink Jet Printers, Laser Printers
4. Types of Monitors: CRT, Flat panel monitors, etc
5. Understanding Serial Ports and Parallel Ports
6. Memory Hierarchy and Memory Devices
7. Installation of DVD Writer Software
8. Assembling the Computer System
9. Installation of Operating System
10. Installation of Anti-Virus Software

The duration of each practical examination is 3 hrs with 50 marks, which are to be distributed as 30 marks for experiment, 10 mark for viva and 10 marks for record.

Practicals

Experiment

Viva-Voce

Record

50 marks

30

10

10

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OLD

PVKN Govt. College(A), Chittoor

I B.COM, COMPUTER APPLICATIONS, SEMESTER – II
(FUNDAMENTALS OF OPERATING SYSTEMS)

Subject Code: 18-CAP-201

Credits: 04

Teaching Hrs/Week : 4

SYLLABUS

Course Outcome

Upon successful completion of this course, students will be able to understand various functions of operating systems. The students will gain knowledge on a variety of popular operating systems. They would also understand the working of a processor and how it executes multiple processes concurrently. Students would gain knowledge on Linux and Android operating systems.

UNIT -I

Introduction to Operating Systems: Introduction to Operating Systems, Role (Functions) of Operating Systems, Types of Operating Systems, User Interface, Concept of Process and Running Programs by OS, Files & Folders (Organizing, Attributes, and Sharing), Managing Hardware, PC Operating System, Network (Server) Operating System, Embedded Operating Systems

UNIT -II

Overview of Popular Operating Systems: DOS, Windows NT, Windows XP, Windows Vista, Windows 7, Windows 2000Server, Windows Server 2008, UNIX, Macintosh Operating Systems, Android, iOS [unit 1 & 2 from book 1]

UNIT -III

Roles/Functions of Operating System: Multi-Processing, Fault Tolerance and Load Balancing, Overview of Data Safety(RAID), Disk Defragmentation, Backup and Recovery, Security (Concept of User and Group, File and Folder Permission, Firewall), Workgroups, Domains, and Active Directory, Over view of Server Roles

UNIT -IV

Introduction to Linux Operating System: Introduction to Linux, History of Linux, Strengths and Weaknesses of LINUX, Features of Linux, LINUX Distributions, Basic Commands of Linux

UNIT- V

Introduction to Android: History of Android, Design goals, Memory management, Processor management, device management, file management, security management User interface.

REFERENCE BOOKS:

1. Peter Norton, "Introduction to Computers", TMH
2. Understanding Operating Systems By Ann McHoes, Ida M. Flynn
3. Alan Carter, "Windows 2000 MCSE Study System"
4. Pfaffenberger, "Linux Commands Instant Reference", BPB Publication
5. Silberschatz & Galvin, "Operating System Concepts", Wiley, 5th Ed.
6. Sumitabha Das, "UNIX Concepts and Applications", TMH, 4th Ed.

N. V. Srinivas
Signature of the
Members

J. Srinivas
J. Srinivas

R. Mahesh

Agg BLS

M. Srinivas
Signature of the BOS
Chairman



NEW

PVKN Govt. College(A), Chittoor
I B.COM, COMPUTER APPLICATIONS, SEMESTER - II
(FUNDAMENTALS OF OPERATING SYSTEMS)

Subject Code: 18-CAP-201

Time : 3 hrs

Max Marks : 75 M

MODEL QUESTION PAPER
SECTION - A

Answer any Five of the following Questions

(5 x 3 = 15 Marks)

1. (a) What is Memory Management?
(b) Multi-Processing
(c) What is Command-Line Interface?
(d) Workgroups
(e) Backup and recovery
(f) Firewall
(g) List the file and directory commands in Linux.
(h) Difference b/w single user OS and Multi-user OS.
(i) Differences b/w desktop OS and Mobile OS.
(j) How the security is maintained in Android Mobile.

SECTION - B

Answer any ONE Question from each unit.

(5 X 12 = 60 marks)

UNIT I

2. What is Operating system? Explain the role of operating system.
3. Explain different kinds of desktop operating systems?

UNIT - II

4. What is DOS? Explain any 5 internal and external commands.
5. How you differentiate between Windows, Linux and Macintosh.

UNIT - III

6. Explain overview of the Data safety (RAID).
7. Explain workgroup, Domains and role of server.

UNIT - IV

8. Explain Linux advantages and disadvantages briefly.
9. Explain overview of Linux?

UNIT - V

10. Explain design goals of Android.
11. Explain device and file management in Android.

Signature of the
Members

N. Naveen Kumar
Jyoti
R. Mah

M. Jyoti
B. M.

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Chairman

**NEW**

PVKN Govt. College(A), Chittoor
I B.COM, COMPUTER APPLICATIONS, SEMESTER – II
(FUNDAMENTALS OF OPERATING SYSTEMS)

Subject Code: 18-CAP-201

BLUE PRINT FOR THE MODEL PAPER

| S. No. | Type of Question | To be given in the Question Paper | | | To be answered | | |
|--------------------|----------------------------------|-----------------------------------|---------------------------------|-------------|--------------------|---------------------------------|-------------|
| | | No. of Questions | Marks allotted to each question | Total Marks | No. of Questions | Marks allotted to each question | Total Marks |
| 1 | Section - A (Short Questions) | 10 | 3 | 30 | 5 | 3 | 15 |
| 2 | Section - B (Essay Questions) | 10 | 12 | 120 | 5 | 12 | 60 |
| Total Marks | | | | 150 | Total Marks | | 75 |

BLUE PRINT FOR THE QUESTION PAPER SETTING

| Chapter Name | Essay Question 12 Marks | Short Questions 3 Marks | Marks allotted to the Chapter |
|-------------------------------|----------------------------|----------------------------|----------------------------------|
| UNIT - I | 2 | 2 | 30 |
| UNIT - II | 2 | 2 | 30 |
| UNIT - III | 2 | 2 | 30 |
| UNIT - IV | 2 | 2 | 30 |
| UNIT - V | 2 | 2 | 30 |
| Total No. of Questions | 10 | 10 | 150 |

Signature of the
Members

N. Naveen Kumar

J. J. Kumar

Q. R. H. N

M. R. S.

Signature of the BOS
Chairman

M. R. S.

**NEW****PVKN Govt. College(A), Chittoor****I B.COM, COMPUTER APPLICATIONS, SEMESTER – II
(FUNDAMENTALS OF OPERATING SYSTEMS)**

Subject Code: 18-CAP-201

Credits: 04

Teaching Hrs/Week : 4

SYLLABUS**Course Outcome**

On successful completion of this course, students will be able to understand various functions of operating systems. The students will gain knowledge on a variety of popular operating systems. They will also understand the working of a processor and how it executes multiple processes concurrently. Students will gain knowledge on various Mobile Operating Systems.

NIT -I

Introduction to Operating Systems: Introduction to Operating Systems, Role (Functions) of Operating Systems, Types of Operating Systems, User Interface, Concept of Process and Running Programs by OS, Files & Folders (Organizing, Attributes, and Sharing), Managing Hardware, PC Operating System, Network (Server) Operating System, Embedded Operating Systems

NIT -II

Overview of Popular Operating Systems: DOS, Windows NT, Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Windows Server 2019, Windows Server 2016, UNIX, Macintosh Operating Systems

NIT -III

Roles/Functions of Operating System: Multi-Processing, Fault Tolerance and Load Balancing, Overview of Data Safety(RAID), Disk Defragmentation, Backup and Recovery, Security (Concept of User and Group, File and Folder Permission, Firewall), Workgroups, Domains, and Active Directory, Overview of Server Roles

NIT -IV

Introduction to Linux Operating System: Introduction to Linux, History of Linux, Strengths and Weaknesses of LINUX, Features of Linux, LINUX Distributions, Basic commands of Linux

NIT- V

Introduction to Mobile Operating Systems: Introduction to Android, History of Android, Design goals, Memory management, Processor management, device management, Features and Applications of iOS, Features and Applications of Bada OS, Features and Applications of BlackBerry, Features and applications of Windows Mobile OS

TEXT BOOKS:

1. Understanding Operating Systems By Ann McHoes, Ida M. Flynn, 6Ed, 2013
2. Pfaffenberger, "Linux Commands Instant Reference", BPB Publication
3. Silberschatz & Galvin, "Operating System Concepts", Wiley, 5thEd.
4. Sumitabha Das, "UNIX Concepts and Applications", THM, 4thEd.

REFERENCE BOOKS:

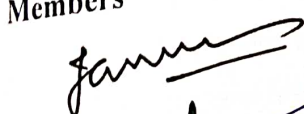
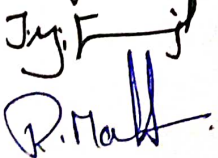
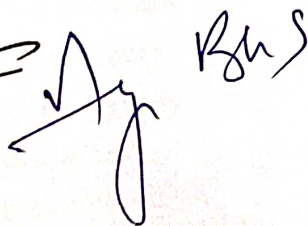
1. Introduction to bada: A Developer's Guide By Ben Morris, Manfred Bortenschlager, Cheng Luo, Michelle Somerville, Lansdell
2. BlackBerry For Dummies By Robert Kao, Dante Sarigumba
3. A Comprehensive Guide to Enterprise Mobility By Jithesh Sathyan, Anoop N., Navin Narayan, Shibu Kizhakke Vallathai

Web resources:

https://www.tutorialspoint.com/android/android_overview.htm


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Chairman


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Members



OLD

PVKN Govt. College (A), Chittoor

I B.COM, COMPUTER APPLICATIONS, SEMESTER – II
(FUNDAMENTALS OF OPERATING SYSTEMS)

Subject Code: 18-CAP-201P

Credits: 02

Lab Hrs/Week : 2

PRACTICALS SYLLABUS

List of Experiments/Programs:

1. Overview of operating systems, Computer system structure, Components of Computer System
2. Computer System Organization-Operation, Interrupt handling.
3. System Calls
4. Computer System Architecture
5. Distributed Systems
6. Operating System Services
7. Command Line Interface
8. Windows and Unix System Calls(APIs)
9. UNIX System Structure
10. Operating System Debugging
11. Process Management
12. Local and Remote Procedure calls in windows XP
13. Android Features and Memory Management

The duration of each practical examination is 3 hrs with 50 marks, which are to be distributed as 30 marks for experiment, 10 mark for viva and 10 marks for record.

Practicals

Experiment

Viva-Voce

Record

50 marks

30

10

10

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Members

N. Naveen Kumar

J. N. S. S.

R. M. S.

M. S. S.

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Chairman

NEW



PVKN Govt. College (A), Chittoor

I B.COM, COMPUTER APPLICATIONS, SEMESTER - II
(FUNDAMENTALS OF OPERATING SYSTEMS)

Subject Code: 18-CAP-201P

Credits: 02

Lab Hrs/Week : 2

PRACTICALS SYLLABUS

List of Experiments/Programs:

1. Computer system structure, Components of Computer System
2. Functions of Operating Systems, Types of Operating Systems
3. MS-DOS Internal commands
4. MS-DOS External commands
5. Working of Windows Server Operating Systems
6. Disk fragmentation, Backup and Recovery, Files and Folder permissions
7. Workgroups, Domains, and Active Directory
8. Linux commands
9. Installation of Android Operating System
10. Steps involved in designing an Android App.

The duration of each practical examination is 3 hrs with 50 marks, which are to be distributed as 30 marks for experiment, 10 mark for viva and 10 marks for record.

Practicals

Experiment

Viva-Voce

Record

50 marks

30

10

10

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N. Narayana Kumar

J. J. J. J.

B. S.



PVKN Govt. College(A), Chittoor
Department of Computer Applications

EVALUATION / ASSESSMENT PATTERN

A continuous internal assessment (CIA) (for 25 marks) by the concerned Course teacher as well as by an end of semester examination (for 75 marks) and will consolidated at the end of the course for 100 marks. The components for continuous internal assessment are :

- (a) Passing minimum for end of semester exam will be 40% out of 75 marks (i.e., 30 marks). Passing minimum for Internal Examination will be 40% out of 25 marks (i.e., 10 marks).
- (b) Internal Assessment shall be conducted for 75marks and marks are proportionately reduced for 25 marks.
- (c) Extra credits will be awarded for students on completing Certificate / Diploma / Advanced Diploma / Online courses offered by the college.
- (d) Extra credits will be awarded for students on various extracurricular activities like NCC/NSS/WEC/YRC/YOGA/Cultural/Sports/ Community Out Reach Programmes

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N. Narasimhan

J. J. J.

R. M. M.

R. M. M.

M. B. S.

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PVKN Govt. College(A), Chittoor
Department of Computer Applications

ADDITIONAL CREDITS FOR Certificate/Diploma/Advanced Diploma/Online courses

It is resolved to award extra credits to the students for completing Certificate/Diploma/Advanced Diploma/Online courses offered by the college.

| S. No. | Certificate/Diploma/Advanced Diploma/Online courses | Course duration (Hrs/Days) | Credits |
|--------|-----------------------------------------------------|----------------------------|---------|
| 1 | Certificate/Diploma/Advanced Diploma/Online courses | 30 | 1 |
| | | 60 | 2 |
| | | 120 | 3 |
| | | 150 | 4 |

ADDITIONAL CREDITS FOR EXTRA CURRICULAR ACTIVITIES





It is resolved to award extra credits to the students for the fulfillment of the following activities duly notified by concerned Convener and recommended by the In-charge of the department at the end of each semester.

It is also resolved that every student must have to enroll in any one of the below mentioned extracurricular activities in the beginning of the semester. Convener has to submit the list of students along with documentary evidences for the activities in a book form.

| S. No. | Extra curricular activity | Working hrs per Semester | Credits |
|--------|-------------------------------------------------------------------------|--------------------------|---------|
| 1 | NCC/NSS/WEC/YRC/YOGA/Cultural/Sports/ Community Out Reach Programmes | 30 | 1 |
| | | 60 | 2 |
| | | 90 | 3 |


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Members

 Narayana Kumar
 Jyoti
 P. Hall
 BOS



P.V.K.N GOVT COLLEGE(A), CHITTOOR

Department of Computer Applications

Panel of Question Paper Setters and Examiners

| | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Dr.A.Ravi Prasad Assistant Professor Dept of Computer Applications S.G. Govt College Piler |
| 2. | Dr.O.NagaRaju Assistant Professor Dept of Computers SKBR Govt Degree College Macherla -522426 Guntur Dist |
| 3. | Dr.M.Kavitha Assistant Professor Dept of Computers ABR Govt Degree College Repalle Guntur Dist |
| 4. | Dr.K.Rajesh Assistant Professor Dept of Computers SRR&CVR Govt Degree College Vijayawada |
| 5. | Dr.J.Karthikeyan Asst.Professor Dept.of Software Systems&Engineering VIT,Vellore Ph: 08667205837 Karthikeyan.jk@vit.ac.in |
| 6. | Dr.E.Sathiyamoorthy Assoc.Professor Dept.of IT VIT,Vellore Ph:9600709091 esathiyamoorthy@vit.ac.in |
| 7. | Dr.J.Keziya Rani Asst.Professor Dept.of Computer Science&Technology S.V.University, Tirupati Ph:9177342990 kejiyaraj@gmail.com |

| | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. | Dr B.Kezia Rani Asst. Professor Dept. of Computer Science & Engineering Adikavi Nannaya University Rajamahendravaram 533296 Ph: 7396544059 drkrbadhiti@gmail.com |
| 9. | Dr. M. Sreedevi Asst. Professor Dept. of Computer Science S.V. University Tirupati 9440571597, 9441899277 Msreedevi_svu2007@yahoo.com |
| 10. | Dr. G. Ravi Kumar Asst. Professor Dept. of Computer Science Rayalaseema University Kurnool grkondaravi@gmail.com 9985090197 |

Signature of the
Members

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