NOTIFICATION

No. 99 / 2017   Date: 3/08/2017

Subject : Introduction of new syllabi for Diploma & Advanced Diploma courses in Computer Hardware and Networking under career oriented programme, from the session 2017-18.

It is notified for general information of all concerned that the authorities of the University have introduced new syllabi for Diploma & Advance Diploma courses in Computer Hardware and Networking from the session 2017-18 as given in Appendix-A & B respectively**.**

It is further notified that, the eligibility criteria and other details along with the Scheme of Examinations shall be as provided under Ordinance No. 47/2005, Regulation 38 of 2005.

Sd/-
I/c Registrar
Sant Gadge Baba Amravati University

Appendix-A

SYLLABUS PRESCRIBED FOR DIPLOMA COURSE IN COMPUTER HARDWARE AND NETWORKING

1. **Theory (12 Credits)**

Unit-I : (03 Credits)
Transmission Media and Topologies
Media types: Twisted pair cable, Coaxial cable, Fiber Optics cable, Cables and Connectors, Physical and logical topologies, Bus, Star, Ring ,tree and Mesh topologies, Ethernet

Unit-II : (03 Credits)
Network Hardware and Components
Concept of Server, client, Network Interface Card, functions of NIC, Crimping tools, Color standards for Straight crimping and Cross crimping , Repeaters, Hub, Switches, Routers, Bridges, gateway, Modem.

Unit-III : (03 Credits)
Microcontroller
Microcontroller Introduction, Difference between Microprocessor and Microcontroller, block diagram of microcontroller, CPU, registers, flags, PSW, PC, Data Pointer, SFR, SP, Internal RAM/ROM, External memory, I/O ports, counter & timers, interrupts.
8051 Interfacing & Application, Basics of serial communication, interfacing with RS-232C, SCON and PCON registers, interfacing a DAC / ADC

Unit-IV: (03 Credits)
Internet
Concept of Internet , Internet Service Provider, Search Engines , Concept of Fax and E-mail, Wi-Fi , Internet Searching: Finding Specific Topics, downloading softwares and device drivers.

2. **Practical:** Minimum 12 Experiments to be completed as per syllabus.

3. **Skill Work (08 Credits)**
Field Work / Project Writing / Training: (The proof of this should be submitted during examination, for example: Work experience certificate / Dissertation / Project Report, etc. duly issued and signed by the concerned institutional authority / coordinator / faculty)

Books Recommended:
1. Networking Complete BPB Publication
2. Computer Networking **-**By Andrew Tanenbaum (Pearson Education)
3. Computer Network **-** By U.Black
4. D.V.Hall, Microprocessors and Interfacing Programming and   Hardware, Mc Graw Hill,1986.
5. William Stallings, Data and Computer Communications, 5th edition, PHI,1997.
6. The 8051 Microcontroller architecture, Programming & Applications- Kenneth J.Ayala (Penram international)
7. The 8051 Microcontroller and Embedded Systems.- M. A. Mazadi, J. C. Mazadi (Pearson Education, Asia)
8. Microprocessor, microcontroller & applications- U. S. Shah (Tech-Max Publication Pune).
9. Programming and Customizing the 8051 Microcontroller- Mike Predko (TMH, New Delhi).

Marks Distribution :
Theory …………………………………………. 100 marks.

Practical :

Two practical (each 15 marks)………   30 marks.
Vivo-voc ………………….…………………   10 marks.
Record Book …………………………………..   10 marks.

Total - 50 marks.

Project / Field work report ……………   50 marks.

Theory ……………………….………………..   100 marks.
Practicals ……………………………………..   50 marks.
Project / Field work record …..………..   50 marks.

Total   **.   200 marks.**

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Appendix-B

**SYLLABUS PRESCRIBED FOR ADVANCED DIPLOMA COURSE IN COMPUTER
HARDWARE AND NETWORKING**

2.   Theory (12 Credits)

Unit-I : (03 Credits)
IP Addressing & TCP/IP
IP address, MAC address, Practice TCP/IP Utilities : ping, pathping ,ipconfig, hostname, route, tracert, netstat, nbtstat, ARP, NSLookup, getmac.

Unit-II : (03 Credits)
Network Security
Concept of network security, Network Security Threats ,Secure Administrative Access, LAN security considerations, Wi-fi security considerations , firewall.
IT Act & La*w*
Introduction to Cyber Security, Introduction to Cyber Laws & IT Act, Importance of privacy.

Unit-III : (03 Credits)
Diagnostic Tools & PC Maintenance
Introduction, Virus and its types, Effect of Virus on Computer System, Scanning and Antivirus remover tools, Antivirus Utilities for Diagnostic, Safety and Preventive Maintenance Tools, Data Recovery, PC care and Maintenance, Electrical Power Issues, Troubleshooting PC Hardware:- O/S Troubleshooting
issues in computer System

Unit-IV: (03 Credits)
Windows Update & Device Driver
Introduction to control panel, Version of a software, Service pack, Updating of OS, Different configurations of Computer system and its peripherals, Compatible with different hardware/software.
Software Installation
Pre-installation - Prerequisites, Install procedure, Rollback or Un-install procedure, Tests.
Post-installation   Backup procedure & specifications, Restore procedure, Periodical view check.
Awareness of legal aspects of using computers such as copyright, patent etc.

 2. Practical: Minimum 12 Experiments to be completed as per syllabus.
 3. Skill Work (08 Credits)
Field Work / Project Writing / Training: (The proof of this should be submitted during examination, for example: Work experience certificate / Dissertation / Project Report, etc. duly issued and signed by the concerned institutional authority / coordinator / faculty)
Books Recommended:
   1.   Mueller.S, Upgrading and repairing PCS, 4th Edition, Prentice Hall, 1995.
   2.   Govindarajulu.B, IBM PC and Clones Hardware trouble shooting and maintenance McGraw Hill, 1993.
   3.   William Stallings, Data and Computer Communications, 5th edition, PHI,1997.
   4.   PC Troubleshooting and Repair Stephen J. Bigelow Dream tech Press, New Delhi
   5.   Computer Networking Andrew S. Tanenbawan By PHI
   6.   Networking Complete BPB Publication
   7.   Computer Network - By U.Black
   8.   Windows 98 BPB Publication
   9.   Windows XP Professional edition complete BPB Publication
  10.   Office XP complete BPB publication
  11.   Trouble shooting, maintaining and repairing PCs By : Stephon J Bigelow Tata McGraw Hill Publication
  12.   Larry L.Peterson & Bruce S.Davie, Computer Networks - A systems Approach, 2nd edition, Harcourt Asia/Morgan Kaufmann, 2000.
  13.   PC AND CLONES Hardware, Troubleshooting and Maintenance B. Govinda rajalu, Tata Mc-graw-Hill Publication

Marks Distribution :

Theory ……………………………   100 marks.

Practical :

Two practical (each 15 marks)……   30 marks.
Vivo-voc …………………....……   10 marks.
Record Book .……………………   10 marks.

Total - 50 marks

Project / Field work report ……….   50 marks.

Theory ………………………...……   100 marks.
Practicals …………………...……   50 marks.
Project / Field work record ..…..……   50 marks.

Total   200 marks

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NOTIFICATION

No.   100 / 2017   Date: 3/08/2017

Subject : Introduction of new syllabi for Certificate, Diploma & Advanced Diploma courses in Mushroom Cultivation under career oriented programme, from the session 2017-18.

It is notified for general information of all concerned that the authorities of the University have introduced new syllabi in Certificate, Diploma & Advanced Diploma courses in Mushroom Cultivation from the session 2017-18 as given in Appendix-A, B & C respectively.

It is further notified that, the eligibility criteria and other details along with the Scheme of Examinations shall be as provided under Ordinance No. 47/2005, Regulation 38 of 2005.

Sd/-
I/c Registrar
Sant Gadge Baba Amravati University

Appendix-A

SYLLABUS PRESCRIBED FOR CERTIFICATE COURSE IN MUSHROOM CULTIVATION UNDER THE SCHEME OF CAREER ORIENTED PROGRAMME THEORY

Total Marks: 100

Unit-I   :   **History of Mushrooms :** Introduction to Mushrooms, Basic concept of mushrooms, History of Mushrooms, Mushrooms in Maharashtra, Mushrooms in India.

Unit-II   :   **Mushroom Morphology :** Different parts of a typical Mushroom and variations in mushroom morphology, Key to differentiate Edible and Poisonous mushrooms.

Unit-III   :   **Mushroom Ecology :** Occurrence- Epigenous and Hypogenous, Natural Habitats-Humicolous, Lignicolous and Coprophilous. Wild mushroom collection, Spore print, Drying and preservation techniques.

Unit-IV   :   **Biology of Mushrooms :** General characters of mushroom with reference to general Morphology and distinguishing characteristics, Life cycles of-
1.*Agaricus bisporous*
2.*Pleurotus sp.*

Unit-V   :   **Mushroom Cultivation :** Introduction to cultivable mushrooms of India. Cultivation techniques of Oyster mushroom.

Practical for   Certificate Course   in Mushroom Cultivation.
1. Study of external characters of mushroom.
2. Study of internal structure of mushroom.
3. Study of different species of mushrooms.
4. Study of edible mushroom.
5. Study of poisonous mushroom.
6. Diagramatic study of life cycle of typical mushroom.
7. Photographic collection of different species of mushroom.
8. Preparation of the record of different types mushroom from surroundings.
9. Methods of preservation of mushrooms.
10. Field survey/field work.