Andhra Pradesh State Council of Higher Education
**B.Sc. Computer Science/Information Technology (IT) Syllabus Under CBCS**
w.e.f.2015-2016 (Modified in April 2016)

**Structure of Computer Science/Information Technology (IT) Syllabus**
**I YEAR 1 SEMESTER**

# Computer Fundamentals & Photoshop

**Course Outcome**

To explore basic knowledge on computers and Photoshop's beauty from the practical to the painterly artistic and to understand how Photoshop will help you create your own successful images

**UNIT-I:**

Introduction to computers, characteristics and limitations of computer, Block diagram of computer, types of computers, uses of computers, computer generations. Number systems :binary, hexa and octal numbering system

**UNIT-II:**

Input and output devices: Keyboard and mouse, inputting data in other ways, Types of Software: system software, Application software, commercial, open source, domain and free ware software, Memories: primary, secondary and cache memory. Windows basics: desktop, start menu, icons.

**Unit –III**

Introduction to Adobe Photoshop, Getting started with Photoshop, creating and saving a document in photoshop, page layout and back ground, photoshop program window-title bar,menu bar,option bar,image window,image title bar, status bar, ruler,paletts,tool box,screen modes,saving files,reverting files,closing files.

**Unit –IV**

**Images**: working with images, image size and resolution ,image editing,colour modes and adjustments , Zooming & Panning an Image,, , Rulers, Guides & Grids- Cropping & Straightening an Image,image backgrounds ,making selections.
**Working with tool box:** working with pen tool, save and load selection-working with erasers-working with text and brushes-Colour manipulations: colour modes- Levels – Curves - Seeing Colour accurately - Patch tool – Cropping-Reading your palettes - Dust and scratches- Advanced Retouching- smoothing skin

**Unit-V**

**Layers:** Working with layers- layer styles- opacity-adjustment layers
**Filters:** The filter menu, Working with filters- Editing your photo shoot, presentation –how to create adds ,artstic filter,blur filter,brush store filter,distort filters,noice filters,pixelate filters,light effects,difference clouds,sharpen filters,printing.

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**Reference Books:**

1. Fundamentals of Computers by Reema Thareja from Oxford University Press
2. Adobe Photoshop Class Room in a Book by Adobe Creative Team.
3. Photoshop: Beginner's Guide for Photoshop - Digital Photography, Photo Editing, Color Grading & Graphic...19 February 2016 by David Maxwell

**Student Activity:**
   1. **Design a poster for technical paper presentation.**
   2. **Create a digital scrap book.**

### *Photo Shop Lab*

1. Create your Visiting card
2. Create Cover page for any text book
3. Create a Paper ads for advertising of any commercial agency
4. Design a Passport photo
5. Create a Pamphlet for any program to be conducted by an organization
6. Create Broacher for you college
7. Create Titles for any forthcoming film
8. Custom shapes creation
9. Create a Web template for your college
10. Convert colour photo to black and white photo
11. Enhance and reduce the given Image size
12. Background changes
13. Design Box package cover
14. Design Texture and patterns
15. Filter effects & Eraser effects