

Computer Applications for Built Environment Sector

Course Title	:	Computer Application for Built Environment
Course Code	:	
Credit Unites	:	3

L	T	P	SW	FW	Total Credits
0	0	4	2	0	3

Course Objective	:	<ol style="list-style-type: none"> 1. To provide sustainable aspects of new technology and current ethics and practices in information technology. 2. To understand and apply the practical knowledge by working on Microsoft office applications like MS-Excel, MS-Word and MS-PowerPoint. 3. To provide basic understanding of tools in AutoCAD to read drawing and interpret distance.
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Pre-requisites	:	Basic Computer Knowledge is required.
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Student Learning Outcomes (SLO)	:	<ol style="list-style-type: none"> 1. Able to understand and apply current ethics and practices in the information technologies 2. Able to demonstrate working knowledge of producing citations/bibliography, mail merge and also demonstrate the use of caption, footnote and table of content 3. Able to demonstrate the handling of large data and get meaningful information using advance data analysis, lookup functions, pivot tables and power pivot. 4. To understand the tools and techniques available to increase your productivity and customize your AutoCAD workspace.
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Course Content / Syllabus:

Modules	Weightage (%)
1. Sustainable aspects of information technology	

Today's Business on the Web/Internet/Social Media, An Overview of Internet Service Providers (ISP), Sustainability Growth of IT Sector in India, Use of Various technologies in an innovative ways, Applications of information technology in business, government and service organization E Commerce and E Governance.	20%
2. Application tool for document editing and presentation	
Modify and create new heading styles, Working with outline layout, Generate Table of Content and its customization, Captions, footnote and table of figures, Cross Reference, Citations/Bibliographies, Mail Merge Wizard, Track Changes PowerPoint layouts, Design Themes, Presentation View, Moving Text using Transition and Animation, Master slides, Setting up presentation, Insert and modify charts and graphs.	30%
3. Application tool for data analysis and interpretation	
Basic formulae and functions to manipulate data- count, sum, average, text, date and time functions, logical functions, Managing large data- using paste special, conditional formatting, filtering, sorting, Manage data using charts and graphs. Lookup and reference functions, Data Validation, What if Analysis and Implementation of Macro's	30%
4. Build tools in built environment – AUTOCAD	
Basic AutoCAD controls, pan and zoom in a drawing, controlling the order of overlapping objects, measurement of distances and areas, Selection methods, AutoCAD commands, layers and its importance to create CAD drawing	20%

Pedagogy for Course Delivery	:	Pedagogy for the course delivery is lecture classes followed by practical sessions in computer lab.
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Assessment / Examination Scheme:

Theory Lecture / Tutorial (%)	Lab / Practical / Studio (%)
100%	100%

Theory Assessment (Lecture & Tutorial):

Continuous Assessment / Internal Assessment				End Term Examination
Components	Project / Home Assignment/ Presentation	Class Test	Attendance	50%
Weightage (%)	30%	15%	5%	

Lab / Practical / Studio Assessment:

Continuous Assessment / Internal Assessment				End Term Examination
Components (Drop Down)	Practical Test	Project/Assignment Submission & VIVA VOCE	Attendance	50%
Weightage (%)	20%	25%	5%	

Notional Hours:

Lecture Contact	0
Tutorial Contact	0
Practical Contact	60
Self-Work	30
Field Work	0
Assessment	30
Total Session	120

Text & References:

- Pradeep k Sinha and Priti Sinha “*Information Technology (Theory and Practical)*”, PHI
- Dense Seguin “*Computer concepts and Microsoft office 2013*”, PHI
- Joyce Cox, Joan Lambert and Curtis Frye “*Step by step Microsoft Office Professional 2013*”
- Cheryl Shrock “*Beginning Autocad 2015*”.

Any Other Study Material:

- Class lecture notes/ presentations