

**Lecture Plan**  
**Department of Planning, School of Planning and Architecture, Vijayawada**

**Name of Course:** Computer Applications in Planning (BPLN102)

Programme & Sem: **Bachelor of Planning (UG), Semester One**

Course Duration: July 27<sup>th</sup> to Dec 1<sup>st</sup> 2018

Course Coordinator: Bhavya Bogra, Assistant Prof., Dept. of Planning  
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Number of Credits: 03

Total Periods/Week: 03 (See Time Table for details)

Internal Assessment: 50 (minimum pass marks 50%)

External Jury: 50 (minimum pass marks 50%)

Total Marks: 100 (to be converted to CGPA credit pattern as per regulations)

**Subject Objective:** *To develop proficiency in the use of basic software and application in physical planning*

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode (Optional)	References / Suggested Readings
Week 1 (July 30)	Basics of word, working on layouts, document elements, tables, charts, referencing, index, referencing and standards	Lecture	Joan Lambert and Curtis Frye (2015), <i>Microsoft Office 2016 Step by Step</i> , Microsoft Press publications, Washington. Accessed from [https://ptgmedia.pearsoncmg.com/images/9780735699236/samplepages/9780735699236.pdf]
Week 2 (Aug 06-10)	Preparation of reports; working on digital presentations, slide designs and sequence; spread sheets, tables, import and export of graphics, working on charts, analysis, tools and formulas.	Lecture	
Week 3 (Aug 13-21)	Assesment-1 Time bound test /assignment		
Week 4 (Aug 21-25)	Introduction to data base management systems; information systems in planning discipline, NIUS	Lecture	Government of India (2006) TCPO, MOUD, <i>National Urban Information System-Design and standards</i> , Government of India, New Delhi
Week 5 (August 27-Sep 01)	National Spatial Data Management Systems, National Urban Information systems, ENVIS, NIC, etc.	Lecture and Discussion	
Week 6 (Sep 01-09)	Field Work		
Week 7 (Sep 10-14)	Need for automated design and drafting, tools for automated designs and drafting, elements of spatial data in CADD	Lecture	Magurie, Dennis (1988), <i>Engineering Drawing From first Principles-Using AutoCAD</i> , Arnold Publishers, Great Britain.
Week 8 (Sep 17-21)	Basic commands in CADD-lines, rectangles, polylines, points, circles, donuts, layers, grids, snaps and object snaps, etc.	Lecture	
Week 9 (Sep 24-28)	Internal Assessment – II (Mid-term examination)		

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Week 10 (Oct 01-05)	Move, scale, copy, offset, change, trim, extend, mirror, divide, measure, array, break, hatch, block, zoom, regen, view, pan, fonts, etc;	Lecture	Douglas, Seidler R (2007), <i>Digital Drawing for designers- A visual guide to AutoCAD</i> , Firchild Publications, Inc., New York.
Week 11 (Oct 08-12)	Common errors in scaling, printing and exporting and importing drawings, creating a non-printed output	Lecture	
Week 12 (Oct 15-19)	Exporting to dwf, pdf, jpeg, sending electronic transmittal sets, exporting a model to a 3D dwf; print and plot concepts.	Lecture	
Week 13 (Oct 22-26)	Internal Assessment – 3		
Week 14 (Oct 29-02 Nov.)	Introduction to CAD drawings, photo editing, audio and visual editing software and statistical tools	Lecture	Andrew Mustun (2008), <i>QCAD - An Introduction to Computer-Aided Design (CAD)</i>
Week 15 (Nov 05-14 Nov.)	Application of these tools in planning discipline and e-governance.	Discussion	Accessed from <a href="https://www.ribbonsoft.com/qcad/book/qcad_book_preview_en.pdf">https://www.ribbonsoft.com/qcad/book/qcad_book_preview_en.pdf</a>
	Finalisation of Internal Marks		

**Note:**

1. Any other closed holidays as declared by SPAV shall supercede the above lecture plan. Holidays shown above may alter as per Notice from time to time.
2. Assessment Sessions may be re-scheduled, with prior intimation.
3. Reading lists provided is not exhaustive and is subject to addition – students are advised to follow progression of class to keep abreast of the new reading lists, if any.