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

Name of Course: **Computer Applications for Planning (PLN112)**

Programme & Sem: **Bachelor of Planning, Semester** One
Course Duration: August 21, 2023 to December 02, 2023
Course Coordinator: Valliappan AL., Assistant Prof., Dept. of Planning (valliappan.al@spav.ac.in)
Number of Credits: 03
Subject Category: Theory
Total Periods/Week: 2+1   (Lecture + Tutorial)
Internal Assessment   50
End Evaluation   50 (External Jury)
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 and Week 2 (21st August 2023 to 03rd September 2023)	Basics of word, working on layouts, document elements, tables, charts, referencing, index, referencing and standards; Preparation of reports;	Lecture and Practical	1. Humprey M.L (2021). Word 2019 Beginner. M.L.Humprey and Publishers. India. 2. https://www.office.com/
Week 3 and Week 4 (4th September 2023 to 15th September 2023)	Working on digital presentations, slide designs and sequence;	Lecture and Practical	3. Chatal Bosse (2023). Microsoft PowerPoint Best Practices, Tips, and Techniques: Packt Publishing Limited.
Week 5 (16th to 23rd September 2023)	**Field Work**		
Week 6 (25th to 01st October 2023)	Spread sheets, tables, import and export of graphics, working on charts, analysis, tools and formulas,	Lecture and Practical	4. Michael Alexander (2019). Microsoft Excel Bible. The comprehensive Tutorial Resource. Wiley and Publications. USA. 5. https://www.microsoft.com/en-in/microsoft-365/excel
Week 7 (October 3rd to 07, 2023)	**Mid Semester Assessment**		
Week 08 (October 09th to 15th October 2023)	Pivot and macros, advanced analysis in spread sheets.	Lecture and Practical	6. Manisha Nigam (2020). Advanced Analytics with Excel 2019. BPB Publications;
Week 09 (October 16th to 22th October	**Unit 3:** Introduction to Computer Aided Drafting & Design (CADD) Software	Lecture and Practical	7. Douglas, Seidler R (2007), Digital Drawing for Designers – A Visual Guide to AutoCAD, Fair child Publications, Inc., New York.

2023)	Need for automated design and drafting, tools for automated designs and drafting, elements of spatial data in CADD		
Week 10 (October 23th to 29th October 2023)	Basic commands in CADD - lines, rectangles, polylines, points, circles, donuts, layers, grids, snaps and object snaps, etc.	Lecture and Practical	8. Magurie, Dennis (1988), Engineering Drawing From First Principles – Using AutoCAD, Arnold Publishers, Great Britain. 9. Cadfolks (2021).Autocad 2021 for Beginners. Kishore Publications, India. 10. https://www.autodesk.in/
Week 11 (October 30th to 05thNovember 2023)	**Unit 4:** Editing and Controlling Display in CADD Move, scale, copy, offset, change, trim, extend, mirror, divide, measure, array, break, hatch, block, zoom, regen, view, pan, fonts, etc.; Common errors in scaling, printing and exporting and importing drawings;	Lecture and Practical	
Week 12 (06th to 12th November 2023)	Creating non-printed output, exporting to dwf, pdf, jpeg, sending electronic transmittal sets, Exporting a model to a 3D dwf; Print and plot concepts.	Lecture and Practical	
Week 13 and Week 14 (13th to 26th November 2023)	**Unit 5:** Application of Software in Planning Discipline Photo editing, audio and visual editing software and statistical tools;	Lecture and Practical	11. Ministry of Housing and Urban Poverty Alleviation (2010), Guidelines for GIS Mapping, MIS, Development and Integration of GIS with MIS, Government of India, New Delhi. 12. TCPO, MOUD (2006), National Urban Information System – Design and Standards, Government of India, New Delhi. 13. https://obsproject.com/
Week 15 (27th November 2023 to 02nd December 2023)	Application of these tools in planning discipline and e-governance.	Lecture and Practical	14. https://www.ibm.com/products/spss-statistics 15. https://www.adobe.com/in/products/photoshop.html
	Finalisation of Internal Marks		

Note:
1. Any other closed holidays as declared by SPAV shall supercede the above lecture plan. Holidays shown in the academic calendar and Notice from time to time shall alter the lecture plan.
2. Assessment Sessions may be rescheduled, 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.