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

Surveying and Photogrammetry (BPLN106) Name of Course: Programme & Sem: Bachelor of Planning (UG), Semester One Course Duration: July 30th to Nov 14th, 2017 Course Coordinator: Ms. Shakthe S, Assistant Professor., Dept. of Planning (shakthe@spav.ac.in) Number of Credits: 03 Total Periods/Week: 03 (see timetable for details) 50 (minimum pass marks 50%) Internal Assessment: 50 (minimum pass marks 50%) – Written Exam. End Evaluation: Total Marks: 100 (to be converted to CGPA credit pattern as per regulations)

Subject Objective: To acquire proficiency in basics of Geoinformatics covering the topics related to Surveying, Remote Sensing, Photography, Photogrammetry and GPS technologies.

Week	Lecture / Session Topic	Session	References / Suggested			
	(Teaching-Learning Objective	Mode	Readings			
	aimed)	(Optional)				
Week 01	Fundamentals of Surveying:	Lecture	1. Dr. B.C. Punmia, Ashok			
(Starting July 30)	Definitions, classifications, use,		K. Jain & Arun K. Jain,			
	objectives and basic principles of		'Surveying Volume-I'			
	surveying; Classifications of		Laxmi Publication. 2016.			
	of scalos, maps and plan and use of		(BUUK)			
	conventional symbols and Compass		2. 2. C. Verkatramalan, 'Teytbook of Surveying'			
	Surveying		Universities Press 1994			
Week 02	Plain table surveying and	Lecture	(BOOK)			
(Starting Aug 06)	Computations of areas, Levelling					
	and Contouring.					
Week 03	Internal Assessment – I (Aug 16 – Aug 21) : Time – Bound Closed Book Test					
(Starting Aug 13)						
Week 04	Conventional Surveying Methods	Lecture	3. Dr. B.C. Punmia, Ashok			
(Starting Aug 20)	Definition, application, advantages		K. Jain & Arun K. Jain,			
	and disadvantages, Principies;		'Surveying Volume-I'			
Wook 05	Stops in chain survey. Definition of	Locturo				
(Starting Aug 27)	framework of survey survey lines	Lecture	4 C. Venkatramaiah			
(Starting Aug 27)	survey stations base line tie line		'Textbook of Surveying'.			
	check line.		Universities Press. 1994.			
			(BOOK)			
Week 06	Field Work (Sep 01 – Sep 09)					
(Starting Sep 03)						
Week 07	Ranging and chaining a survey line;	Lecture	5. Dr. B.C. Punmia, Ashok			
(Starting Sep 10)	Plotting chain survey to prepare a		K. Jain & Arun K. Jain,			
	pian.		'Surveying Volume-I'			
Week 08	Contemporary Surveying Methods:	Lecture	6 Dr BC Punmia Ashok			
	our comporting our veying Methods.	LUCIUIC				

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	Global Positioning System			'Surveying Volume-III (Higher Surveying)' Laxmi Publication. 2017. (BOOK)		
Week 09 (Starting Sep 24)	Internal Assessment – II (Sep 24 – Sep 28) : Time – Bound Closed Book Test					
Week 10 (Starting Oct 01)	Differential Global Positioning System. Photogrammetry: Photogrammetry as an alternative tool for surveying; Introduction to aerial remote sensing and aerial photographs, classification.	Lecture	7.	Dr. B.C. Punmia, Ashok K. Jain & Arun K. Jain, 'Surveying Volume-III (Higher Surveying)' Laxmi Publication. 2017. (BOOK)		
Week 11 (Starting Oct 08)	Principles of stereoscopic vision; Basic instruments - stereo-pair, pocket and mirror stereoscopes, parallax bars.	Lecture				
Week 12 (Starting Oct 15)	Dussehra Break					
Week 13 (Starting Oct 22)	Internal Assessment – III (Oct 22 – Oc	t 26) : Assignr	nent			
Week 14 (Starting Oct 29)	Principles of photogrammetry, Measurement of heights and depths; Introduction to digital photogrammetry.	Lecture	8.	Dr. B.C. Punmia, Ashok K. Jain & Arun K. Jain, 'Surveying Volume-III (Higher Surveying)'		
Week 15 (Starting Nov 05)	Applications: Applications in urban and regional planning; Laboratory exercises	Lecture & Field work	9.	Laxmi Publication. 2017. (BOOK) C. Venkatramaiah,		
Week 16 (Starting Nov 12)	Laboratory exercises	Lecture & Field work		'Textbook of Surveying'. Universities Press. 1994. (BOOK)		
November 14	End of Class work					

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.