



School of Planning and Architecture, Vijayawada

(An institution of National Importance under the Ministry of Education, Govt. of India)

Survey No.4/4, ITI Road, Vijayawada-520008, Andhra Pradesh, India

Department of Architecture

Course: Working drawing (ARC312)	Class: – B.Arch. - III Year, V Sem (2024-25)	Coordinator: Dr. RNS Murthy, Ar. Siddesh Mundle, Ar. Tanya Paul
Credits: 4 (5 hours weekly)	Contact Hours of Coordinator per week: 05 hrs.	Time Table Wednesday, 09:00 AM-2:25 PM
Internal Assessment Marks: 50	External Theory Exam: 50	Total Marks: 100
Min. Attendance: 75%	Min. Marks: 50% both in Internal & External	

Subject Objective:

- To introduce Working drawings and their significance in the construction of buildings.
- To teach the essential components of working drawings, notations, drawing standards, Strengthen the students' knowledge about preparing working drawings for various building elements.
- To enable students to learn the intricacies of working drawings to resolve construction details, collaborate with other construction related fields and consultants and finally 'Good for Construction' drawings clear enough and easily understood by the construction crew even in the absence of the architect (small scale projects).

Lecture Plan:

Week No.	Topic (Lecture/ Discussion/ Assignment)	Methodology/ Details
Week 01	Introduction to Working Drawings	Lecture/Studio
Week 02	1. Set out plan 2. Centre line/Face line 3. Column Layout	Lecture/Studio
Week 03	4. Pile/Footing Marking 5. Pile cap/Footing 6. Plinth Beam Layout 7. Foundation cross-section	Lecture/Studio
Week 04	8. Brick work plan 9. Slab and Beam layout	Lecture/Studio
Week 05	10. Staircase drawing	Review 1
Week 06	27-08-2024 to 08 -09-2024- Field Trip for studio	
Week 07	11. Lintel level Plan 12. Opening Details (Doors and Windows) 13. Window Grill Design	Lecture/Studio
Week 08	14. Detail Sections and Elevations 15. Electrical layout 16. Plumbing layout (Toilet + site level layout)	Lecture/Studio
Week 09	Mid-Semester Assessment.	Review 2
Week 10	17. Sectional elevations 18. Terrace level plan	Lecture/Studio
Week 11	19. Site development plan	Lecture/Studio
Week 12	20. Kitchen layout	Lecture/Studio
Week 13	21. Compound wall+ gate design	Lecture/Studio
Week 14	22. Kitchen layout	Lecture/Studio
Week 15	Reserve	Review 3
Week 16	Reserve	Lecture/Studio

Evaluation		
Stage-1	Review 1	15
Stage-2	Mid-Semester assessment- Review 2	20
Stage-3	Review 3	15
End of Classes -14.11.2024		
END SEMESTER EXAMINATIONS (27.1.2024- 06.12.2024)		
Learning Outcomes:		
Students will gain proficiency in creating detailed working drawings that effectively communicate construction details, ensuring clarity and accuracy for successful project execution.		
References:		
<ol style="list-style-type: none"> 1) Ching. DK, (2014) "Building Construction Illustrated", Wiley. 2) Barry, (1999) "The Construction of Building", Blackwell Science, London. 3) MacKay. WB, (1971) "Building Construction", Longman. 4) Rangwala, (2013) "Building Construction", Charotar Publishing House, Anand. 5) Kumar Sushil, (2010) "Building Construction", Standard Publishing Distributors. 6) Building and Construction Authority. (2005). CONQUAS-21. Singapore: The BCA Construction Quality Assessment System. 7) Jefferis, A. and Madsen, D.A. (2005). Architectural Drafting and Design. 5th Ed. New York: Thomson Delmar Learning. 8) Jeong, K-Y. (2010) Architecture Annual. Seoul: Archiworld Co. 9) Joe, B. (Ed). (2002). Details in Architecture: Vol. I-V. Victoria: The Images Publishing group. 10) Osamu, A. W., Linde, R. M. and Bakhoun, N. R. (2011). The professional practice of architectural working drawings. 4th Ed. Hoboken: John Wiley & Sons. 11) Weston, R. (2004). Plans Sections Elevations – Key buildings of the twentieth century. London: Laurence King Publishing. 		
Dr. Srinivas Daketi (Head of Department)		Dr.RNS Murthy (Subject Coordinator) (SD)