

FOURTH YEAR - SEMESTER – VIII

AC 807	INFRA STRUCTURE SERVICES	(L=1,S=2,W=0)	CREDITS = 03
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INTERNAL ASSESSMENT(ASSIGNMENTS,QUIZ) = 50	CONTACT HRS/WK = 03
UNIVERSITY EXAMINATION = 50	

Focus: Settlement Infrastructure Services

Contents: Water Supply for large scale settlement; including Rainwater harvesting. Supply systems, layout, intake units, storage.
Water purification & disinfection with spatial requirement for the same.
Waste & Waste water handling.
Types of wastes: storm water, garbage, sullage, sewage, Industrial wastes.
Different types of drains and sewer, sewer appurtenances.
Handling by septic tank and alternative methods.
Sewage treatment works, treatment units and their spatial requirements.
Sewage disposal by different method.
Roads - types, alignment, width and carriage width of roads, shoulders, curves, super-elevation, curbs etc.(Geometric Design).
Parking spaces, rules & general requirements.
Fire fighting-requirement for fire fighting, fire hydrants, their location & specifications.
Lighting-arrangement of street lighting, density, spacing height etc., Location of transformer substation & their spatial requirements.
Telecommunication-various modes of telecommunication, relevance with planning, and precautions to be taken while planning including spatial requirements.

REFERENCES:

SR.NO.	TITLE	AUTHOR
01.	Water Supply & Sanitary Engineering	G.S.Birdie
02.	Public Health Engineering	Rangwala
03.	Building Services	F.Halls
04.	Road & Transportation Engineering	S.K.Khanna