



DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL POLY

TOWN PLANNING

Paviath ONLINE

◆ CIVIL POLY ◆ III YEAR ELECTIVE ◆ CODE CEM63.2

OBJECTIVES:

• ON COMPLETION OF THE COURSE, THE STUDENT WILL BE FAMILIAR:

- TO UNDERSTAND THE PRINCIPLE OF TOWN PLANNING AND SURVEYS.
- TO STUDY THE REQUIREMENTS OF HOUSING AND SLUM CLEARANCE.
- TO STUDY THE REQUIREMENT OF PUBLIC BUILDINGS, PARKS AND PLAY GROUNDS.
- TO STUDY THE REQUIREMENTS AND TYPES OF URBAN ROADS AND TRAFFIC MANAGEMENT
- TO STUDY THE IMPORTANCE OF HOUSING AND SLUM CLEARANCE PROGRAMMES.
- TO PREPARE MASTER PLAN AND FOR RE-PLANNING OF EXISTING TOWNS. ABOUT BUILDING BYE LAWS AND OTHER MISCELLANEOUS TOPICS.

1.1 TOWN PLANNING PRINCIPLES

GENERAL - EVOLUTION OF PLANNING - OBJECTS OF TOWN PLANNING - ECONOMIC JUSTIFICATION FOR TOWN PLANNING - PRINCIPLES OF TOWN PLANNING - NECESSITY OF TOWN PLANNING - ORIGIN OF TOWNS - GROWTH OF TOWNS - STAGES IN TOWN DEVELOPMENT - PERSONALITY OF TOWN - DISTRIBUTION OF LAND - FORMS OF PLANNING - SITE FOR AN IDEAL TOWN - REQUIREMENTS OF NEW TOWNS - PLANNING OF A MODERN TOWN - POWERS REQUIRED FOR ENFORCEMENT OF TOWN PLANNING SCHEME - COST OF TOWN PLANNING - PRESENT POSITION OF TOWN PLANNING IN INDIA

1.2 SURVEYS

GENERAL - NECESSITY- COLLECTION OF DATA-TYPES OF SURVEYS FOR PLANNING A NEW TOWN- USES OF SURVEYS.

1.3 ZONING

MEANING OF THE TERM- USES OF LAND, OBJECTS AND PRINCIPLES OF ZONING - ADVANTAGES OF ZONING - IMPORTANCE OF ZONING - ASPECTS OF ZONING - TRANSITION ZONE - ECONOMY OF ZONING - SPECIAL ECONOMIC ZONE (SEZ) - ZONING POWERS - MAPS FOR ZONING.

2.1 HOUSING

GENERAL - IMPORTANCE OF HOUSING - DEMAND FOR HOUSES - BUILDING SITE - REQUIREMENTS OF RESIDENTIAL BUILDINGS - CLASSIFICATION OF RESIDENTIAL BUILDINGS - DESIGN OF RESIDENTIAL AREAS - RURAL HOUSING - AGENCIES FOR HOUSING - INVESTMENT IN HOUSING - HUDCO - CIDCO - HOUSING PROBLEMS IN INDIA.

2.2 SLUMS

GENERAL - CAUSES OF SLUMS - CHARACTERISTICS OF SLUMS - EFFECTS OF SLUMS - SLUM CLEARANCE - PROBLEMS IN REMOVING SLUMS - IMPROVEMENT WORKS - OPEN PLOT SCHEME - SLUM CLEARANCE AND REHOUSING - PREVENTION OF SLUM FORMATION - RESOURCES FOR SLUM CLEARANCE PROGRAMMES - THE INDIAN SLUMS.

3.1 PUBLIC BUILDINGS

GENERAL - SUITABLE LOCATION OF PUBLIC BUILDINGS - CLASSIFICATION OF PUBLIC BUILDINGS - PRINCIPLES OF DESIGN OF PUBLIC BUILDINGS - TOWN CENTRES - GROUPING OF PUBLIC BUILDINGS - REQUIREMENTS OF PUBLIC BUILDINGS - GREEN HOUSE - CIVIC AESTHETICS

3.2 PARKS AND PLAY GROUNDS

LOCATION OF URBAN GREEN SPACES - CLASSIFICATION OF PARKS - PARK SYSTEMS-PARK DESIGN - FINANCE FOR PARKS - PARKWAYS - PLAYGROUNDS - SPACE STANDARDS - LANDSCAPE ARCHITECTURE.

3.3 MASTER PLAN

GENERAL - OBJECTS - NECESSITY - FACTORS TO BE CONSIDERED - DATA TO BE COLLECTED DRAWINGS TO BE PREPARED - FEATURES OF MASTER PLAN - PLANNING STANDARDS - REPORT - STAGES OF PREPARATION - METHOD OF EXECUTION-CONCLUSION.

3.4 RE-PLANNING EXISTING TOWNS

GENERAL- OBJECTS OF RE-PLANNING - ANALYZING THE DEFECTS OF EXISTING TOWNS -DATA TO BE COLLECTED - DIFFICULTIES IN RE-PLANNING EXISTING TOWNS / CITIES - URBAN RENEWAL PROJECTS - MERGING OF SUBURBAN AREAS - DECENTRALIZATION - SATELLITE TOWNS - SMART CITIES - DEFINITION AND FEATURES - SURFACE DRAINS - REFUSES OF TOWNS - REFUSE DISPOSAL METHODS

4.1 URBAN ROADS

AL - OBJECTS - REQUIREMENTS OF GOOD CITY ROAD - FACTORS TO BE CONSIDERED - CLASSIFICATION OF URBAN ROADS - TYPES OF STREET SYSTEMS - THROUGH AND BY-PASS ROADS - OUTER AND INNER RING ROADS - EXPRESSWAYS - FREEWAYS - PRECINCTS - ROAD AESTHETICS

5.1 BUILDING BYE -LAWS

GENERAL - OBJECTS OF BYE-LAWS - IMPORTANCE OF BYE-LAWS - FUNCTION OF LOCAL AUTHORITY - RESPONSIBILITY OF OWNER - APPLICABILITY OF BYE-LAWS - SET BACKS TO BUILDINGS - NECESSITY OF SETBACKS - LIGHT PLANE - PLOT COVERAGE - FLOOR SPACE INDEX - MAXIMUM HEIGHT OF BUILDINGS - OFF-STREET PARKING - FIRE PROTECTION - MINIMUM WIDTH OF STREETS AND PLOT SIZES - SOME OTHER TERMS - PRINCIPLES UNDERLYING IN FRAMING BUILDING BYE- LAWS - BUILDING BYE-LAWS FOR RESIDENTIAL AREA OF A TYPICAL TOWN PLANNING SCHEME - BUILDING BYE - LAWS FOR OTHER TYPES OF BUILDINGS - DEVELOPMENT CONTROL RULES - GENERAL RULES OF METROPOLITAN AREA - CMDA RULES

5.2 MISCELLANEOUS TOPICS

AIRPORTS - LOCATION - SIZE - NOISE CONTROL - PARTS OF AN AIRPORTS

TEXT BOOK:

1. TOWN PLANNING - S.C. RANGWALA: CHAROTAR PUBLISHER (2010), PUBLISHER

2. K.S.RANGWALA AND P.S.RANGWALA., - TOWN PLANNING II, CHAROTAR

PUBLISHING HOUSE, 15TH EDITION, 1999.
3. MICHAEL HORD, R. REMOTE SENSING METHODS AND APPLICATION, JOHN WILEY AND SONS.

4. NATIONAL BUILDING CODE OF INDIA- PART-III (2005).

5. MUNICIPAL AND PANCHAYAT BYE-LAWS, CMDA RULES, CORPORATION BYE-LAWS

6. K.A. RAMEGOWDA, URBAN AND REGIONAL PLANNING , UNIVERSITY OF MYSORE.



STC APM

SYLLABUS COACHING
TRAINING - 2/UNIT TRAINING
SELF - 4/UNIT ASSIGNMENT
PRESENTATION - 2/UNIT
SHOWTIME - 2/UNIT

MATHS ILLUSTRATION - GEOMETRY EXPRESSIONS



ASCON RENG

SYLLABUS PERIOD
TRAINING - 2/2 HRS/UNIT
REMOTE - 2/2 HRS/UNIT
DURATION - SEMESTER
ONLINE/REMOTE ACCESS

MECHANICAL EXPRESSIONS - ANALYTIX CAMS



ARCADIA BIM

FEATURES
TRAINING BY IND. PROFESSIONAL
INDUSTRY APPLICATION
TRAINER OPPORTUNITY
CERTIFICATION