

SARDAR PATEL UNIVERSITY
VALLABH VIDYANAGAR – 388 120, GUJARAT

FACULTY OF SCIENCE
POST-GRADUATE PROGRAMME FOR M. Sc. (Real Estate Valuation)
ACADEMIC REGULATIONS AND COURSES OF STUDY

R.PG.VAL.1 ADMISSION

- 1.01 A candidate for admission to the Post-Graduate degree programme for M.Sc. (Real Estate Valuation) must have passed the Bachelor Degree Examination preferably in commerce, science, engineering, architecture, mathematics, statistics, economics, law, management and agricultural science of this University or an examination recognized as equivalent thereto.
[Such as Section A & B Examination conducted by the Institution of Engineers (India) and Section A & B of Association Membership Course conducted by The Institution of Mechanical Engineers (India)]
- 1.02 Student who has passed qualifying examination from any other University or examining body and is seeking admission to this programme must produce an eligibility certificate from this University.

R.PG.VAL.2 PROGRAMME OF STUDY

- 2.01 A student shall follow at a time any one of the prescribed programmes – viz. M.Sc.(Real Estate Valuation) and M.Sc. (Plant & Machinery Valuation).

R.PG.VAL.3 EXEMPTIONS

- 3.01 A candidate shall be eligible for exemption(s) for the courses studied at the Bachelor Degree Examination or at the Post Graduate Degree Examination. Exemption shall be subject to approval by the head of the department.

RPG.VAL.4 ATTENDANCE

- 4.01 Candidate will be required to attend at least 75% of the total theory lectures organized under each of the course by them during the semester.

RPG.VAL.5 EXAMINATION

- 5.01 The ratio between the external and internal assessment will be 70:30
- 5.02 (i) The head of the department in consultation with other teachers of the department will prepare in the beginning of the semester a detailed scheme of the periodic test(s), seminars, quizzes etc., and the program for the test examinations and the same will be announced to the candidates. (ii) The record of the test examinations as well as seminars and quizzes will be maintained by the department.

RPG.VAL.6 ELIGIBILITY TO APPEAR IN UNIVERSITY EXAMINATION

- 6.01 Candidate will be required to obtain at least 33% marks in the internal evaluation separately in each head of passing. A candidate who fails to obtain 33% marks in not more than two heads of passing may be allowed to appear at the university examination by the Head of the department concerned on the recommendation of the committee appointed to assess the candidate's overall performance. (Note: Head of passing will mean a course in theory or practical, or project work).

RPG.VAL.7 EXAMINERS

7.01 A teacher offering a particular course will be one of the examiners at the university examination and the other examiner may be either a teacher from same university or from outside the university.

RPG.VAL.8 FINAL RESULT

8.01 The final result for the award of the degree will be declared on the basis of the grand total of all the semester examinations prescribed for the degree examination.

RPG.VAL.9 REPEAT COURSES

9.01 No candidate will be allowed to reappear in course in which he / she has already passed.

RPG.VAL.10 STANDARD OF PASSING

10.01 The standard of passing of M. Sc. (Real Estate Valuation) degree examination will be as under:

- i. To pass any semester examination for the M. Sc. degree a candidate must obtain at least 40% marks in the university examination and 40% marks in the aggregate of university and internal examination in each course of Theory, Practical and project work.
- ii. Those of the successful candidates who obtain 50% or more marks in the aggregate of all the semesters taken together will be placed in the Second class and those who obtain 60% or more marks in the aggregate will be placed in the first class.
The successful candidates who obtain 70% or more marks in the aggregate of all the semesters taken together will be declared to have passed the examination in the first class with distinction.

RPG.VAL.11 CONTINUATION OF TERM

- i A candidate who fails in more than two courses (any two out of total heads of passing in the particular semester) in a particular semester will not be admitted for further study at a subsequent semester and will be required to repeat the courses in which he/she has failed by joining the department as a regular student in the semester in which these courses are again offered.

A candidate failing in not more than two courses at any semester examination will be promoted to the subsequent semester according to the following scheme.

- ii A candidate failing in the first semester will be permitted to prosecute his / her study up to the third semester but will not be permitted to go to the fourth semester until he / she has cleared all the courses of the first semester even though he / she may have passed in the second and / or third semester.

A candidate failing in the second semester will be permitted to prosecute his /her studies up to the fourth semester.

TABLE - 1

**PROGRAMME OF STUDIES LEADING TO THE
M. SC. (REAL ESTATE VALUATION)
W.E.F. AY 2017-18 (JULY 2017)**

First Semester**(CBCS)**

Sr. No.	Course no.	Course Title	Credits	Total Marks	External	Internal
Core Courses						
1.	PS01CVRE21	PRINCIPLES OF ECONOMICS	4	100	70	30
2.	PS01CVRE22	BOOK KEEPING AND ACCOUNTANCY	4	100	70	30
3.	PS01CVRE23	ELEMENTARY SURVEYING AND ENGINEERING DRAWING	4	100	70	30
4.	PS01CVRE24	INTRODUCTION TO STATISTICS	4	100	70	30
5.	PS01CVRE25	PRINCIPLES OF VALUATION	4	100	70	30
6.	PS01CVRE26	COMPREHENSIVE VIVA-VOCE	1	50	50	--
Elective Courses						
7.	PS01EVRE21	ELE. OF LAWS AND JURISPRUDENCE	4	100	70	30
8.	PS01EVRE22	AIR POLLUTION AND CLIMATE CHANGE	4	100	70	30

Second Semester

Core Courses						
1.	PS02CVRE21	PRIN. OF INSURANCE & LOSS ASSE.	4	100	70	30
2.	PS02CVRE22	BUILDING TECHNOLOGY- I	4	100	70	30
3.	PS02CVRE23	LAW – I	4	100	70	30
4.	PS02CVRE24	LAW – II	4	100	70	30
5.	PS02CVRE25	VALUATION OF REAL ESTATE-I	4	100	70	30
6.	PS02CVRE26	COMPREHENSIVE VIVA-VOCE	1	50	50	--
Elective Courses						
7.	PS02EVRE21	URBAN LAND ECONOMICS	4	100	70	30
8.	PS02EVRE22	WATER POLLUTION AND CONTROL TECHNOLOGY	4	100	70	30

Third Semester

Core Courses						
1.	PS03CVRE21	ENVIRONMENTAL IMPACT ASSESSMENT	2	50	35	15
2.	PS03CVRE22	FINANCE, BUSI. & MGNT. STUDIES	2	50	35	15
3.	PS03CVRE23	TOWN AND REGIONAL PLANNING	4	100	70	30
4.	PS03CVRE24	BUILDING TECHNOLOGY-II	4	100	70	30
5.	PS03CVRE25	VALUATION OF REAL ESTATE-II	4	100	70	30
6.	PS03CVRE26	MAINT., REPAIRS & DILA OF BLDGS AND REAL ESTATE MANAGEMENT	4	100	70	30
7.	PS03CVRE27	COMPREHENSIVE VIVA-VOCE	1	50	50	--
Elective Courses						
8.	PS03EVRE21	REPORT WRITING	4	100	70	30
9.	PS03EVRE22	SUSTAINABLE DEVELOPMENT	4	100	70	30

Fourth Semester

1.	PS04CVRE21	FIELD WORK AND SEMINAR	8	200	200	--
2.	PS04CVRE22	PROJECT WORK	16	400	400	--
3.	PS04CVRE23	COMPREHENSIVE VIVA-VOCE	1	50	50	--

Note:

- (i) CVRE - Core subject, Real Estate stream
- (ii) EVRE - Elective subject, Real Estate stream

Scope:

The scope of the course is very wide. The students passing with the M. Sc. degree in Valuation of Real Estate are expected to have opportunity to work as Registered Valuers under the respective category - viz. Real Estate.

Valuation of Real Estate is required for following purposes:

Fiscal Purposes:

- i. Income Tax including Capital Gains
- ii. Rating / Municipal Taxation
- iii. Stamp Duty

Non-Fiscal Purposes:

- i. Bank loan / Mortgage / Security
- ii. Advice on fair purchase / sale price
- iii. Liquidation, Auction etc.
- iv. Land acquisition and fixation of compensation
- v. Rent fixation / leasing
- vi. Acquisition / Mergers / Amalgamation of companies
- vii. Insurance
- viii. Revaluation of companies assets / accounting and management purposes
- ix. Town planning
- x. Dissolution of firms / family partitions
- xi. Foreign visa

The course is designed with a view to equip students to enable them to carry out valuation for these and any other purposes required.

Duration: Two years Master Degree Course with Four Semesters (CBCS).

Eligibility: As per R.PG.VAL.1.01

Number of Seats:

M.Sc. (Real Estate Valuation) - 30 (Thirty)

The syllabus of the M.Sc. (Real Estate Valuation) programme is given at **Annexure-II**.

M.SC.(REAL ESTATE VALUATION)

First Semester

**PS01CVRE21: PRINCIPLES OF ECONOMICS
CREDITS : 4**

UNIT	DESCRIPTION	WEIGHTAGE (%)
Micro-Economics		
1	Consumption: Indifference curve - consumer's surplus – elasticity; Production : input - output analysis - short - run and long - run production function - isoquant curves - least cost combination - return to scale; Price Mechanism: - determinants of price mechanism - individual and market demand schedules - law of demand & its conditions - exceptions and limitations of law of demand; individual and market supply schedules - conditions and limitations - reservation price - equilibrium price - importance of time element.	25
2	Pricing of products under different market conditions: perfect, imperfect or monopoly; Factors of production and payments thereof: (a) Land and Rent - Ricardian theory of rent - scarcity and differential rent - modern theory of rent - concept of quasi rent (b) Labour and Wages - Backward sloping supply curve of labour - determinants of supply of labour - theories of wages with special reference to marginal productivity theory - modern theory - collective bargaining and exploitation of labour - wage differentials and non-competing groups (c) Capital and Interest - Types of capital - gross interest - net interest - the classical theory - the neo classical theory - the liquidity preference theory of rate of interest (d) Organisation and Profit - Functions of entrepreneur - meaning of profit - various concepts of profit theories of profit; Pricing of factors of production.	25
Macro-Economics		
3	Functions & role of money : non-money economy; Inflation and Deflation: Types of inflation - causes - effects - inflationary gap - control of inflation - monetary, fiscal and direct measures - deflation - causes - effects - deflationary gap - measures to control deflation - deficit financing. Price level: relationship between quantity of money and general price level - Prof. Fisher's version of quantity theory of money - determinants of price-level - price index numbers - cost of living index number and weighted index numbers - uses and defects; National Income/National Wealth: Circular flow of income - concepts of GNP & NNP - per capita income and consumption - components of national income - income expenditure and output methods of computing national income.	25
4	Savings and Investment: Savings and types of savings - determinants of savings - investment - types of investment - determinants of investment - relationship between savings and investment; Components of Economy: Primary sector - secondary sector - tertiary sector. Informal sector in Urban economy - Parasitic Components in Urban economy; Parallel Economy: What is parallel economy? Causes and effects of parallel economy on use of land and its valuation - its impact on real estate market - construction industry and parallel economy.	25

Suggested Books

- (i) Introduction to Economics by C.N. Vakil & H.N. Pathak
(Vora & Co. Publishers Pvt.Ltd.)
- (ii) Elementary Economics by K.P.M. Sundharam (S. Chand & Co. Delhi)
- (iii) Economics by T.K. Mitra
- (iv) Economics by Samuelson
- (v) Advanced Economic Theory by H.L. Ahuja
- (vi) Business Economics by Sunny Thomas & Wahida Thomas
- (vii) Micro Economivs by Wahida Thomas & Ashok Gaur

PS01CVRE22: BOOK KEEPING AND ACCOUNTANCY CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	The meaning and objects of book keeping. Double Entry book keeping. Introduction to Books of Prime entry and subsidiary books.	25
2	Cash book, bank book, journal ledger, purchase and sale books, debit and credit notes register, writing of books, posting and closing of accounts	25
3	Trading account, profit and loss account, income and expenditure account, presentation of balance sheet	25
4	Factory overhead, administrative overhead, fixed expenses, variable expenses, break-even point Depreciation and methods of computing depreciation used in accounts	25

Suggested Books

- (i) Book Keeping by Jai Narainsingh
- (ii) Book Keeping by Basu & Basu

PS01CVRE23: ELEMENTARY SURVEYING AND ENGINEERING DRAWING CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
Surveying		
1	Introduction: Surveying and leveling, plane and geodetic surveys; control points; different types of maps; conventional symbols; map reading; Classification of surveys and surveying methods: Surveying instruments, common parts bubble tube, telescope, verniers etc. Errors and error propagation.	25
2	Linear Measurement : Chains, bands, tapes; accuracies, errors in measurement, corrections; Directions and Bearings: True meridian, magnetic meridian, use of compass; local attraction errors; angular measurements; Theodolite traversing, Gale's traverse table, optical distance measurement and finding out vertical components from them.	25
3	Elevation Measurement: Principles of different methods; leveling instruments, contours and contour maps; areas and volumes; Horizontal and vertical control for mapping Basic idea of Preparation of Plans and Maps: Introduction to plane tabling; Introduction to remote sensing.	25
Engineering Drawing		
4	Construction and use of plain and diagonal scales; Conventional arrangement of views; first and third angle projections;	25

	types of lines, lettering and dimensioning; Introduction to projection of simple solids with varying position of axes and ground lines; Conversion of pictorial views in orthographic views; sectional views.	
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Suggested Books

Surveying

- (i) Surveying by Shri R.C.Bhavsar & Shri R.M. Khetani
- (ii) Surveying Volume -1 by Punamia B.C.
Standard Book House
- (iii) Elementary Surveying by Kulkarni
- (iv) Elementary Surveying by Kanetkar
- (v) Elementary Surveying by Prof. B.N. Ghosh
- (vi) Surveying by Arora Vol.1

Engineering Drawing

- (i) Elementary Engineering Drawing by N.D. Bhatt
Charotar Publishing House
- (i) Engineering Graphics by K.L. Narayan and P. Kannaiah
Tata McGraw Hill

PS01CVRE24 : INTRODUCTION TO STATISTICS CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Data classifications and processing, graphical representation of data	25
2	Frequency distributions, measures of central tendency; dispersion and skewness	25
3	Elementary theory of probability and probability distributions; Sampling and sampling distribution, estimation; simple test of significance.	25
4	Regression and correlation; multiple correlation coefficient; Index numbers.	25

Suggested Books

- (i) Statistical Methods for C.A. Students by S.P. Gupta
- (ii) Mathematical Statistics by Ray U Sharma
- (iii) Fundamentals of Statistics by D.N. Elhance
- (iv) Mathematical Statistics by C.E. Weatherbush
- (v) Mathematical Statistics by Goyal & Sharma
- (vi) A course in Probability & Statistics by H.J. Malik & K. Mullen.
- (vii) Problem of Statistics for Engineers & Scientists by Re Wolpolz & Raymond H.Myers
- (viii) Problem of Statistics by Murrey R. Spiegel

PS01CVRE25: PRINCIPLES OF VALUATION CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Cost, price and value; types of value; Various purposes of valuation, Four ingredients of value, Factors affecting value, value elements, highest and best use, value in use and value in exchange; Annuities, capitalisation, rate of capitalisation, sinking fund, redemption of capital; Construction and use of valuation tables.	25
2	INCOME APPROACH TO VALUE ➤ Rent: Origin, classical theories and evolution of the concept	25

	<ul style="list-style-type: none"> ➤ Types of rent – outgoings – income – yield – years' purchase ➤ Lease : lessor and lessee : covenants, terms and conditions ➤ Leasing; land and building; occupational lease ➤ Valuation : lessor's interest, lessee's interest including sub-lease ➤ Investment comparisons : Yield from real estate, plant and machinery and other forms of investment – sound investment 	
3	MARKET APPROACH TO VALUE <ul style="list-style-type: none"> ➤ Market – real estate market – market value; bell type curve ➤ Comparison of sale instances – factors, methods and weightages ➤ International Valuation Standards 	25
4	COST APPROACH TO VALUE <ul style="list-style-type: none"> ➤ Cost : ingredients – costing methods ➤ Depreciation – various methods of depreciation and their uses in different fields. ➤ Age – effective age – economic life and remaining life ➤ Depreciated replacement cost 	25

Suggested Books

- (i) Parks' Valuation – 5th Edition (1998) by D.N. Banerjee – Eastern Law House, Calcutta
- (ii) Appraisal Principles and Procedures by Henry A. Babcock
American Society Appraisers, P.O. Box 17265, Washington D.C. 20041, U.S.A
- (iii) Basic Real Estate Appraisal by Richard M. Betts and Silas J. Ely
American Society Appraisers, P.O. Box 17265, Washington D.C. 20041, U.S.A
- (iv) Theory and Practice of Valuation by Roshan H. Namavati
Lakhani Book Depot, Near Girgaon Church, Bombay - 400 004
- (v) Modern Methods of Valuation, 8th Edition
by William Britton, Keith Davis and Tony Johnson
- (viii) Valuation Principles and Procedures by Ashok Nain, Kolkata
- (ix) Valuation of Plant & Machinery (Theory & Practice) by Kirit Budhbhatti.

PS01EVRE21: ELEMENTS OF LAWS AND JURISPRUDENCE (ELE. OF LAWS AND JURISPRUDENCE)

CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	<u>Elementary Jurisprudence:</u> Law- its origin, sources and ramifications; Legislative enactments - subordinate legislation - Judicial precedents. <u>Indian Legal System:</u> Salient features of the Indian Constitution, fundamental rights: directive principles of the state policy; Executive, Legislature and the judiciary; Centre - State relationship.	25
2	<u>Law of Contract:</u> Formation of a contract, parties; void, voidable and unenforceable contract; contingent contract; misrepresentation and fraud - effect thereof.	25
3	Termination of contract; remedies for breach; performance of contract; indemnity and guarantee; law of agency; general principles of tort; tort affecting valuation.	25
4	<u>Local Government</u> Types- Rural and Urban, constitutional provisions, powers and functions; Sources of revenue : Tax and Fee, Municipal Finance, essential civic services; <u>Conveyancing</u> Outline procedure for sale of immovable property : contract and conveyance; preliminary inquiries, open contract; contract by correspondence; Title: requisition and searches.	25

Suggested Books

- (i) Jurisprudence by M.J. Sethna, Publishers : Lakhani Book Depot. Lamington Road, Bombay - 400 007
- (ii) Constitution of India by Basu.
- (iii) Law of Torts by B.S. Sinha, Eastern Book Company, 34 Lal Baugh, Lucknow
- (iv) Mulla on Indian Contract Act (Students Edition)
N.M. Tripathi, Princess Street, Bombay 400 002
- (v) Law of Torts by Desai
- (vi) Indian Judiciary by Dr. P. Dhar
- (vii) Local Self Government in India by M.P. Sharma
- (viii) Treatise on Calcutta Municipal Corporation Act by D.N. Banerjee & S. Sengupta
- (ix) West Bengal Municipal Act, by D.N. Banerjee
- (x) DeSouza's Conveyancing, by C.R.Datta and M.N. Das

PS01EVRE22: AIR POLLUTION AND CLIMATE CHANGE CREDITS: 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Definition, history, sources of air pollution - natural and anthropogenic, primary and secondary, Aeroallergens - sources, biology and health effects, general effects of atmospheric pollutants (PM, HC, CH ₄ , CO ₂ , H ₂ S, CO, NO _x , SO _x) on humans, animals, plants and materials; Ambient air quality emission standards, automobile pollution (photochemical oxidants, photochemical smog), characteristics - auto exhaust, and its control (catalytic converters), air pollution episodes (Bhopal, Chernobyl, Los Angeles, London smog, Indonesian forest fire), recent case studies on air pollution	25
2	Environmental factors and air pollution - heat, insulation, wind, precipitation, plume behavior, sampling and measurement of air pollution - ambient air and stack monitoring, indoor air pollution, indoor air quality, prevention and control of air pollutants - particulate matter & gaseous pollutants – absorption, adsorption, settling chambers, fabric filters, scrubbers, cyclone & electrostatic precipitators, Clean Development Mechanisms (CDM): carbon sequestration, carbon footprint, carbon trading, carbon market	25
3	Climate Change: Definition of Climate and weather, Evolution of atmosphere, composition and structure, Particles, ions and radicals in atmosphere, Chemical reactions of different chemical species in the atmosphere, Oxygen and ozone chemistry and ozone hole formation. greenhouse gases- global warming, temperature inversion, global effects of GHGs, Classification of Climates, causes and consequences of Climate changes, Impacts of climate change on ecosystems, Global dispersion of toxic substance: Dispersion and circulating mechanisms of pollutants, ozone depletion, dust dome effect, acid rain, photochemical smog, heat island, Kyoto Protocol, Role of IPCC, Climate change methodologies	25
4	Disaster management- Concept of disasters, causes, prevention and correction hazards related to Earthquakes, Tsunami, Volcanic eruption, Cyclones, Floods, Drought, Landslides, Forest fires, Avalanches and Pest infestation, El nino and La Nina.	25

Suggested Books

1. A.K.DE. 1987. Environmental Chemistry. Wiley Eastern Limited
2. Blaikie, P., Cannon, T., Davies, I. and Wisner, B. (1994) At Risk: Natural Hazards, People's Vulnerability, and Disasters. London: Routledge. Bohle, H., Downing, T. and

3. Burroughs, W.J. 2001. Climate Change. Cambridge University Press.
4. Hobbes, P.V. 2002. Atmospheric Chemistry. Cambridge University Press.
5. Houghton, J. 2001. Global Warming. Cambridge University Press.
6. Maslin, M. Global Warming: A Very Short Introduction. (Oxford: Oxford University Press, 2008) [ISBN 9780199548248].
7. Rao, M. 2002. Air Pollution. Prentice & Hall.
8. Sainfeld, J.H. 1975. Air Pollution. Physical and Chemical Fundamentals, McGraw Hill, N.Y.
9. Sharma, B.K. 2002. Air Pollution. Academic Press.
10. Wayne, R.P. 2003. Chemistry of Atmosphere. Oxford University Press.

Second Semester

PS02CVRE21: PRINCIPLES OF INSURANCE AND LOSS ASSESSMENT (PRIN. OF INSURANCE & LOSS ASSE.) CREDITS: 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Principles and legal concepts in relation to insurance of buildings and plant & machinery. The contract of insurance. Insurable interests and liability to insure. Duties of the insurer and the insured	25
2	The insurance policy; terms and conditions, perils, beneficial and restrictive clauses. Basics of Fire Insurance Policy and Engineering Policy. Different types of policies; Technicalities and classification of risk; safeguards, property protection. Importance of risk management in insurance sector and its techniques. The insurance market and functions of the insurance broker.	25
3	Valuation principles and techniques in relation to insurance loss assessment; valuation bases, value at risk, sum insured and condition of average, inflation provisions, other contents, obsolescence and betterment	25
4	Principles of claim settlement. Functions of the loss assessor and loss adjuster. Obligations and rights of insurer and insured. Third party claims; Consequential loss insurance, its scope and intention, policy conditions, definition of terms, approach to the consequential loss claim	25

Books for Study:

- (i) Modern Law of Insurance in India by Murty/Sharma
- (ii) Practice of General Insurance by Federation of Insurance Institutes
Universal Insurance Building, Sir P.M. Road, Bombay 400 001
- (iii) Principles of General Insurance by Insurance Institute of India
P.M. Road, Bombay 400 001
- (iv) Fire Insurance Claims by Federation of Insurance Institutes
Universal Insurance Building, Sir P.M. Road, Bombay 400 001
- (v) IC 34 – General Insurance By: Insurance Institute of India

PS02CVRE22: BUILDING TECHNOLOGY - I CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Characteristics/testing/properties/use/types and limitation of various building materials like: (a) Stone (b) Brick (c) Sand (d) Concrete (e) Cement (f) Wood (g) Steel (h) Lime (i) Tiles (j) Plastic (k) Glass (l) Paint (m) Aluminum (n) Waterproofing (o) Synthetic Timber (p) Asbestos (q) Asphalt and any new building materials introduced in future used in	25

	(a) Foundation, (b) Superstructure above and below plinth level, (c) Doors and windows, (d) Flooring, (e) Plastering, (f) Finishing, (g) Roofing of various categories of building viz - residential, commercial, industrial and public buildings, (h) Waterproofing, (i) Termite control, (j) Corrosion control, in various types of constructions viz., load bearing walls, R.C.C. frame, steel frame, wooden frame etc.	
2	Plan, elevation and section of simple building with basic principles of architecture; Land & Site development for individual plots (Block Plan, Key Plan, Location Plan)	25
3	Visits to construction sites and development projects; Planning, designing and preparation of drawings - plan, elevation and section of following categories of buildings: i) Simple low-rise and high-rise buildings; ii) Single and multistoried building of load bearing walls; iii) Framed structures iv) Temporary and semi permanent buildings	25
4	Types of foundations, superstructure, doors and windows, flooring, finishing, roofing and building services - like water distribution, sanitation, drainage, refuse collection system, electrification, fire fighting, acoustics, lifts, air conditioning and ventilation for buildings falling under above categories	25

Suggested Books

- (i) Text Book of Building Construction by Punamia B.C.
- (ii) Text Book of Building Construction by Arora and Bindra.
- (iii) National Building Code of India by Bureau of Indian Standards.
- (iv) Materials of Construction by G.N. Ghosh (McGraw Hill)
- (v) Material of Construction by Surendrasingh
- (vi) Text book of Building Construction by Susheel Kumar
- (vii) Building Construction by B.N. Roy
- (viii) Handbook of Building Engineers by National Building Organisation.
- (ix) Building Construction by Susheel Kumar
- (x) Building Construction by Roy Choudhury
- (xi) Mitchell's Advanced Building Construction by Foster (McGraw Hill)
- (xii) Mitchell's Building Construction by Denzil Nield (Allied Publications)

PS02CVRE23: LAW - I CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Acquisition and requisition of immovable property – enactments; Land Acquisition Act, 1894 (1 of 1894) and The right to fair compensation and transparency in land acquisition, rehabilitation and resettlement Act, 2013.	25
2	Provisions for acquisition of land under the municipal laws; Building rules and regulations of local bodies as well as development control rules and regulations of different urban development authorities with special reference to MMRDA; Rules and regulations for new construction, additions and alterations, repair and redevelopment; occupational uses, building safeties.	25
3	Salient features of Insolvency and Bankruptcy Code of India, 2016; Salient features of Securitization And Reconstruction of Financial Assets and Enforcement of Securities Interest Act 2002 (SARFAESI Act) Salient features of Banking Regulation Act, 1949 with special reference to S. 5(n): “secured loan or advance”;	25

	Salient features of The Real Estate (Regulation and Development) Act, 2016 (RERA)	
4	Law of arbitration and conciliation : salient features; Rent control laws	25

Suggested Books

- (i) Land Acquisition Act, Vol. I and II by V.G. Ramchandra
- (ii) The right to fair compensation and transparency in land acquisition, rehabilitation and resettlement Act, 2013
- (iii) Building Bye-laws of National Building Code
- (iv) Building Bye-laws of Municipal Corporation of Ahmedabad, Bombay, Delhi etc.
- (v) Development Control Regulations of MMRDA
- (vi) Insolvency and Bankruptcy Code of India, 2016
- (vii) Arbitration and Conciliation Act, 1996
- (viii) Rent Control Acts of Gujarat, Maharashtra etc. different states

PS02CVRE24: LAW - II CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Laws Relating To Immovable Property And Easement: Immovable property : meaning; ownership and possession; joint tenancy and tenancy in common; life interest, remainder and reversion; Co-ownership and concurrent ownership – co-operatives and condominiums; Emerging property concepts : Development rights, time shared property;	25
2	Transfer of Property Act, 1882 Transfer of immovable property : sale, mortgage, gift, exchange, assignment, charge, lien, tenancies/sub-tenancies, Salient features of Sale and Lease provisions under the Transfer of Property Act affecting valuation	25
3	Salient features of Mortgage, Charge, Gift etc. provisions under the Transfer of Property Act affecting valuation; Indian Easement Act, 1882 Easement of air, light, water, way and support, natural rights, profits a prendre, customary rights and public rights, Leave and licence	25
4	Laws Of Evidence: Burden of proof, presumptions, conclusive proof; Laws Relating To Inheritance/Succession : Personal laws affecting inheritance of property : Indian Succession Act : Will & testament; succession certificate	25

Suggested Books

- (i) Principles of the Law of Transfer by S.M. Shah (N.M.Tripathi),Bombay 400 002
- (ii) Mulla on Transfer of Property Act by M.C.Setalwad.
- (iii) Law of Transfer of Property by Sarathi V.P. (Eastern Book Co. Lucknow-1)
- (iv) Law of Easements & Licences by B.B. Katiyar
- (v) Land Acquisition & Compensation Volume I and II by V.G.Ramchandra
- (vi) Indian Succession Act by Mulla
- (vii) Hindu Succession Act by Mulla
- (viii) Mohammedan Law by A.A. Fyzee
- (ix) Law of Evidence by Ratanlal/Dhirajlal
- (x) Laws Relating to Partition by M.N. Das

PS02CVRE25: VALUATION OF REAL ESTATE - I
CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	INCOME APPROACH TO VALUE Advanced studies: principles of income approach sale analysis techniques and deriving rate of interest from sale transaction, rate of capitalisation, reversionary value of land Case Laws	25
2	MARKET APPROACH TO VALUE Advanced studies : market comparison techniques, adjustment grid model, regression analysis, automated sales analysis, residual technique Data collection, surveys, enquiries and investigations and analysis; Case Laws.	25
3	COST APPROACH TO VALUE Advanced studies : land characteristics, belting theory, hypothetical plotting scheme, hypothetical building scheme, transfer of development rights, estimating cost of construction using building cost indices, replacement cost new, reproduction cost, reinstatement value; Various forms of obsolescence including depreciation; Case Laws.	25
4	Various purposes of valuation : (A) Fiscal (i) Stamp duty on transfer of property (ii) Rating (iii) Direct Tax Acts - Income Tax including capital gains, Wealth Tax (iv) Court fees including probate and partition (B) Non-Fiscal (i) Bank Finance and securitization (ii) Auction reserve (iii) Compulsory acquisition (iv) Insurance (v) Sale / Purchase (vi) Betterment levy (vii) Standard / fair rent under rent law (viii) Liquidation (ix) Lender's Independent Engineer Limitations of various approaches to value	25

Suggested Books

- (i) Parks' Valuation – 5th Edition (1998) by D.N. Banerjee, Eastern Law House, Calcutta.
- (ii) Valuation Relating to Standard Rent by Roshan H. Namavati
- (iii) Elements of valuation of immovable properties by R. K. Gandhi, Mumbai
- (iv) Real Estate Valuation in Practice by Kirit p. Budhbhatti
- (v) Basic Real Estate Appraisal by Richard M. Betts & Silas J. Ely
- (vi) Readings in Real Estate Valuation - Publications of Appraisal Institute
- (vii) Theory and Practice of Valuation by Roshan H. Namavati

PS02EVRE21: URBAN LAND ECONOMICS
CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Growth of cities and towns Features of growth: geographical area of settlement population and density – occupational pattern	25
2	Uses of urban land: factors in supply: effects of zoning and development control; Urban infra-structure: bulk delivery of civic services: communication and transportation.	25
3	Real-estate market: investments in real estate; Factors affecting urban land value	25
4	Development decisions: agencies for decisions; Land prices in the major cities of world: determining forces: comparative variation: globalization and its effect.	25

Suggested Books

- (i) Town Design by Fredrick Gibbered, London Architecture Press London
- (ii) Principles of Town & Country Planning by Lewis Keeble
- (iii) The Image of City by Kevin Lynch, M.I.T. Press, Cambridge, U.K.
- (iv) Site Planning by Kevin Lynch, M.I.T.Press, Cambridge.,U.K.
- (v) Design in Towns & Villages
- (vi) The economics of Real Property by Ralph Turvay
- (vii) Economics of Planned Development (Estate Gazettee)
- (viii) Urban Land Economics by Richard U. Ratchiff Mc Graw Hill
- (ix) Aspects of Land economics by W.Lean and Goodall (Estate Gazettee)
- (x) Economics of land use planning, Urban & Rural by Willian Lean (Estate Gazette)
- (xi) Urban Economics : An introduction by A.W.Evan Macmillan
- (xii) Urban Economics by E.S. Mills & B.W, Hausilton
- (xiii) Land resource economics New York - Prentice Hall
- (xiv) Economic theory and Cities by J.V. Henderson, New York Academic Press.

PS02EVRE22:WATER POLLUTION AND CONTROL TECHNOLOGY
CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Supply of water: Sources of water and their characteristics: water from precipitation (Strom water), surface water, ground water. Water Quantity: Water and Its Properties, Necessity of Water, Water Demand, Factor Affecting Water Demand, Population Forecast by Different Methods. Sampling, sample preservation, physical characteristics, chemical characteristics and biological characteristics, drinking water standards.	25
2	Groundwater: Introduction, types of aquifers, means to draw groundwater, Ground water conservation, seepage from surface water, artificial recharge, saline water intrusion - Causes and remedies of saline intrusion.	25
3	Water treatment: Conventional water treatment process, Screening, chemical handling and feeding, coagulation and flocculation, sedimentation, Filtration, Theory of filtration, filtration slow sand, rapid sand and pressure, filters. Disinfection; Criteria for good disinfectant, mechanisms of disinfection, factors affecting efficiency of disinfection, chlorination – chlorine chemistry, chlorination practices in India. Aeration, limitation of aeration, types of aerators.	25
4	Advanced water treatments – membrane technology; Microfiltration,	25

Ultrafiltration, Nanofiltration Reverse Osmosis, Other treatment technologies: Ion Exchange, Water Softening, Adsorption, Electrodialysis.	
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Suggested Books

1. Besseliere, E and Schwartz. 1975. Treatment of Industrial Wastes, McGraw Hill.
2. Birdie, G.S. 2002. Water Supply and Sanitary Engineering. Dhanpatraj and Sons Press.
3. Fair, G.M. Geyer, T.C. and Okun, D.A. 1984. Water and waste water Engineering. Vol. I and II, John Wiley and Sons.
4. Garg, S.K. Water and Sewage Treatment. 2002. Blackwell Publishing.
5. Mahajan 1985. Pollution control in process industries. Tata McGraw Hill
6. Metcalf and Eddy Inc. 1979. Waste water Engineering treatment, Disposal, Reuse. Tata McGraw Hill Publ. Co. Ltd.

Third Semester

PS03CVRE21: ENVIRONMENTAL IMPACT ASSESSMENT CREDITS : 2

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Environment: definition; air, land, water, vegetation, aquatic life, climate and the systems, which interact with nature	25
2	Why environmental studies? - a holistic approach to environmental problems	25
3	Environment and valuation - Differences between the 'open market price and the negative value consequent on environmental impact; environmental issues of air pollution, acid rain, ozone layer depletion/destruction, water pollution etc.; environmental statement as to effects, negative or positive; measures to restore the damage; cost of cure. Stigma due to environmental factors	25
4	Environmental impact assessment:- i) Baseline surveys and data collection on environmental levels and pollutants; ii) Preparation of environmental status report; iii) Legal and permissible levels of environmental pollutants; iv) Analysing existing situation against permissible levels to identify excesses; v) Alternative methods to reduce pollutants to permissible levels through technical process, other solutions; vi) Social - cost-benefit analysis of solutions proposed vii) Recommended measures for short term reduction and long term elimination of negative effects; viii) Environmental Management Plan (EMP) and implementation strategy ix) Financial allocations for EMP; Outlines of environmental legislations : Forest Act, Mining Act, Industrial Health & Safety Act, Municipal Acts, Water Pollution Act, Air Pollution Act, Environment Protection Act, Wild Life (Protection) Act, Archaeological Monuments (Protection) Act etc. Leading case laws on environmental issues	25

Suggested Books

- (i) Environmental Impact Assessment by Canter, Mc Graw Hill
- (ii) Environmental Impact Analysis by R.K. Jain et al
- (iii) Environmental Strategy and Concern by Diwan
- (iv) Water Pollution (Prevention) Control Act, 1974, Govt. of India
- (v) Air Pollution (Prevention) Act, 1981, Govt. of India
- (vi) Environment (Protection) Act, 1986, Govt. of India

- (vii) Guidelines for Environmental clearance of various projects, Dept. of Environment, Govt. of India.
- (viii) Forest Conservation Act, 1980, Govt. of India
- (ix) Environmental Laws and Policy in India, By Shyam Divan and Armin Rosencranz, Oxford University Press, New Delhi

**PS03CVRE22: FINANCE, BUSINESS AND MANAGEMENT STUDIES
(FINANCE, BUSI. & MGNT. STUDIES)
CREDITS : 2**

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Goals and functions of finance organization, setting financial controlling system – planning and budgeting; Structuring of balance sheet.	25
2	Financial analysis for management decisions – tools of financial analysis - ratio analysis – fund flow, cash flow analysis; Management of working capital - components of working capital importance of working capital.	25
3	Investment decision – decision rule, discounted and non-discounted methods – NPV & IRR.	25
4	Capital structuring; Mergers and acquisitions for corporate restructuring – valuation of corporate organizations; Managing business – large, medium & small companies.	25

Suggested Books

- (i) Financial Management - 8th edition I.M. Pandey, Vikas Publication, New Delhi

**PS03CVRE23: TOWN AND REGIONAL PLANNING
CREDITS : 4**

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Desirability of Planning - planning practices in India - planning process and hierarchy of planning (Macro level to Micro level); Physical, social and economic factors in relation to development; Land use planning and management, Concept of city and town as a human settlement	25
2	Preparation of development plan, Land use zoning principles and its effect on real estate; Development plan : agencies involved in plan preparation and implementation: Effect of Development Plan on Valuation, effects of 73 rd and 74 th constitutional amendments; Legal mechanism for enforcement of planning document - Updating of planning document- Effect of planning document in force.	25
3	Regional Planning : Its aim and objectives and basic concepts; Some theories on Regional Planning e.g. delineation of region, types of region; Hierarchy of Regions, Human Settlements. Industrial location theory (WEBER and ISART).	25
4	Laws Affecting Planning: Development plan, rules and regulations as prepared under the Gujarat Town Planning and Urban Development Act 1976 and the M.R.T.P.	25

	Act, 1966; The Development Control Regulations; Bombay Land Revenue Code and its important documents to be studied for Real Estate; Agencies involved for the preparation of Development Plan and Regional Plan under various Acts; Introduction to Bombay Provincial Municipal Corporation Act, 1949 and the Gujarat Municipal Act, 1961; Preparation of Draft T.P. Scheme and Final T.P. Scheme	
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Suggested Books

- (i) Town Design by Fredrick Gibbered, London Architecture Press London.
- (ii) Principles of Town & Country Planning by Lewis Keeble.
- (iii) The Image of City by Kevin Lynch, M.I.T. Press, Cambridge, U.K.
- (iv) Site Planning by Kevin Lynch, M.I.T. Press, Cambridge, U.K.
- (v) Shopping towns
- (vi) Urban Design as Public Policy by Jonathan Barnett
Architectural Record McGraw Hill Publication
- (vii) Planning the Indian Cities by M.N. Buch
- (viii) Social Aspects of Urban Planning) Dr.H.D.Kopardekar
) All India Institute of
- (ix) Management Ideas of Urban Planning) Local Self Govt.
) Andheri (West)
- (x) Land Pooling and Readjustments) Bombay - 400 058
- (xi) Town Scape by Gordon.
- (xii) Urban Pattern by Gallion.
- (xiii) Architecture of Towns and Cities by Sprragrin.
- (xiv) Model Town and Country Planning Act
Published by Town & Country Planning Organisation, Govt.of India
- (xv) Principles of Town & Country Planning by Modok V.S.
- (xvi) Town Planning by Institute of Estate Management
- (xvii) Modern Town and Country Planning Act, Published by Town and Country Planning Organisation, Government of India

PS03CVRE24: BUILDING TECHNOLOGY - II CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Introduction, definitions, objective, scope and importance of estimating; Units of measurements of various building materials and services of single and multistoried buildings including high rise buildings	25
2	Preparation of specifications of building materials of single and multistoried buildings including high rise buildings; Cataloguing of building materials with specifications	25
3	Estimation of detailed quantities of the following types of low rise as well as high rise buildings: (a) Load bearing wall construction; (b) R.C.C. frame construction; (c) Steel frame construction	25
4	Methods of taking out quantities and preparation of abstract sheet with Unit of work and rate analysis, preparation of rates of building items from the data of cost of building materials and specifications; Preparation of full bill of quantity with specifications for tender and building construction.	25

Suggested Books

- (i) Professional Practice (Estimating & Valuation) by Roshan H. Namavati
- (ii) A Guide for Quantity Surveyors, Engineers, Architects and Valuers 3 Volumes by K.S. Kharb
- (iii) State P.W.D. Hand Book
- (iv) Schedule of Rates by Central Public Works Department(C.P.W.D)
- (v) Estimation and Valuation by Dutta
- (vi) Estimation and Valuation by S.C. Rangwala

PS03CVRE25: VALUATION OF REAL ESTATE – II CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Investment methods: discounted cash flow technique, I.R.R., N.P.V., Layer approach, Ellwood approach, equitable yield and equated yield; Elementary considerations in valuation of plantation, agricultural land, forest, orchards, queries and mines; plant and machineries, intangible assets like goodwill, royalty rights etc.	25
2	Valuation for financial statements: accounting treatment of reserve created by revaluation of assets; Effects of legislation on valuation : rent control law, town planning law etc.; Valuer's role, functions and responsibility; Code of ethics for valuers; Valuer as an Expert witness in Court.	25
3	Valuation of special types of properties: Hotels, Cinema, Petrol Pump, Hill station properties – Time shared property; Valuation of transferable development rights: easement rights – life interest; Valuation of properties: forcible or unauthorized occupancies; Mass appraisals techniques: value contour maps	25
4	Valuation Standards published by – International Valuation Standards Committee, Royal Institution of Chartered Surveyors, U.K.	25

Suggested Books

- (i) Basic Real Estate Appraisal, by Richard M.Betts & Silas J. Ely
- (ii) Income Property Appraisal and Analysis by Jack P. Friedman/Nicholas Ordway
- (iii) Theory and Practice of Valuation by Roshan H. Namavati
- (iv) Parks' Valuation – by D.N. Banerjee, Eastern Law House, Calcutta.
- (v) Valuation Relating to Standard Rent by Roshan H. Namavati
- (vi) Valuation of Real Property by Shyamles Datta
- (vii) Publication of International Valuation Standards Committee on various Valuation Standards, Valuation and Appraisal Manual published by The Royal Institution of Chartered Surveyors and Guidance Notes published by the European Group of Valuers of Assets.

PS03CVRE26: MAINTENANCE, REPAIRS AND DILAPIDATIONS OF BUILDINGS AND REAL ESTATE MANAGEMENT (M & R OF BLDG & REM) CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE (%)
MAINTENANCE AND REPAIRS OF BUILDINGS:		
1	Maintenance and repairs of buildings, principles of construction and detection of defects, and advice on the course of action to be taken: planning; General knowledge of the life serviceability and strength of building materials in common use for the purpose of maintenance; The preparation of schedules of dilapidation and bill of quantity with specifications for repairs; Building survey for assessment of damage due to fire, explosion, earthquake or any other peril for insurance purpose and preparation of estimate for insurance claim.	25
DILAPIDATIONS:		
2	The meaning of dilapidations. Liability from dilapidations. Nature of waste; Implied and statutory obligation to repair as between landlord and tenant under different tenancy/lease agreements. Fair wear and tear; Recent amendments in the rent control act, Maharashtra Housing and Area Development Authority Act, its effects on property market for real estate; Site visits and preparing report on repairs and maintenance of buildings.	25
REAL ESTATE MANAGEMENT:		
3	Concept of management in real-estate development and administration; aims, objects and practices; Variety of occupational uses; Carrying capacities of cities and towns: water supply, sewerage and drainage, transportation, health and education, open spaces and other infra-structural requirements ; Forces of in-migration and out-migration : The concept of rural – urban symbiosis ; Urban renewal process: rehabilitation, redevelopment conservation; decay of core area; Urban development finance with particular reference to real-estate: role of Housing Finance Development Corporation and other financial institutions and agencies	25
4	Private development enterprises by developers and promoters; regulatory laws for construction of multi-storied buildings, transfers and administration; Introduction to Real Estate Investment Trust (REIT); Management of co-operative housing, apartment housing, corporate housing and public buildings ; Ownership and tenancies in real estate: effect of rent control and other laws ; Methods of fixing rent, rigidity and flexibility	25

Suggested Books

- (i) Building Repairs by B.G. Blake (B.T. Batsford U.K)
- (ii) Repairs and Maintenance of Houses by Ian A. Melvice (Estate Gazette)
- (iii) Building Repairs by R.N. Raikar
- (iv) Learning from Failures by R.N. Raikar
- (v) Surveying for Dilapidation by Malcolm Hollis (Estate Gazette)
- (vi) Diagnosis and Treatment of Structures in Distress by R.N. Raikar
- (vii) Surveying for Dilapidation by Malcolm Hollis (Estate Gazette)
- (viii) Principles of Estates Management by Michael Thorncroft.
- (ix) Urban Estates Management Vol.I and II by W.A. Leach.
- (x) Housing Management (Estate Gazettes) by John P. Macey
- (xi) Economics of planning development by Lichfield

PS03EVRE21: REPORT WRITING**CREDITS : 4**

The subject will cover the teaching of how to write reports for various purposes for which a valuer is normally called upon for advice in general practice.

Suggested Books

- (i) Writing a report – Real Estate Valuation by P. T. Hardikar
- (ii) Mastering Technical Writing by Joseph C. Mancuso
- (iii) The Technical Writer's Handbook by Matt Young
- (iv) Guide to Real Property Demonstration Appraisal Report Writing
- (v) Communicating the Appraisal:
- (vi) The Individual Condominium or PUD
- (vii) Unit Appraisal Report by Arlen C. Mills, MAI
- (viii) Hand book for writers and editors by S Sreenivas Rao , Academic Book Centre, 10 Walkeshwar, Ambawadi, Ahmedabad 380 015

PS03EVRE22: SUSTAINABLE DEVELOPMENT**CREDITS : 4**

UNIT	DESCRIPTION	WEIGHTAGE (%)
1	Introduction to sustainable development: Concept of sustainable development, Rio earth Summit (1992), Brundt and commission report, scheme of sustainability: economic, social, environmental; indicators of sustainable development and its selection criteria, Agenda 21 World Summit on Sustainable Development, Local agenda 21 (Earth Summit 2002), planning (for Sustainable Development).	25
2	Global challenges of sustainable development: poverty, pollution, population, finance for sustainable development, health, nutrition, sanitation, energy crisis, disasters, desertification, biopiracy etc. Currencies for evaluations of sustainable development- Biophysical measurements; Environmental degradations and conservation issues; Global change and sustainability issues: Climate change, biological invasion, bio-diversity concerns	25
3	Millennium development goals and its recent status (global, Indian), approaches to sustainable development: natural resource management, capacity building, Ecosystem concept in space and time; Ecosystem level processes and landscape level processes; the concept of sustainable development temporal and spatial dimensions.	25
4	Human resource development, pollution management, green policy development, good governance and recycling, reuse and recovery. Ecosystem and social processes in: (a) Rehabilitation of degraded rural landscape, (b) Rehabilitation of unbalanced soils, (c) Rehabilitation of specialized habitats, e.g. water bodies, mangroves; (d) Mined area rehabilitation participatory research and education environmental decision making with people initiatives.	25

1. AID Environment (1997) Strategic Environmental Analysis: A New Planning Framework for Sustainable Development, AIDEnvironment, Amsterdam
2. Banuri, T and Holmberg, J (1992) Governance for Sustainable Development: a Southern Perspective, IIED, London
3. Carew-Reid, J (ed) (1997) Strategies for Sustainability: Asia, IUCN in association with Earthscan, London

4. Degnbol, T (1996) The Terroir Approach to Natural Resource Management: Panacea or Phantom? – the Malian Experience, working paper no 2/1996, International Development Studies, Roskilde University, Denmark
5. Earthscan. 2002. Sustainable Development Strategies: A Resource Book. Organisation for Economic Co-operation and Development, Paris and United Nations Development Programme, New York.
6. Grieg-Gran, M (2001) 'Investment in Sustainable Development: The Public–Private Interface', in The Future is Now, vol 2, IIED, London

FOURTH SEMESTER

PS04CVRE21: FIELD WORK AND SEMINAR CREDITS : 8

Students will be required:

- to collect data from various government offices and agencies as well as by local inquiry regarding Valuation of Real Estate
- to study various transfer documents creating rights and interests in real estate
- to visit special types of property like Industrial Plant, Public Building, Cold Storage, Cinema, Hotel etc. and prepare a report on the same

The students will be assigned one topic related to valuation and they will be asked to select another topic of their own choice. They will be allowed a fortnights time to prepare papers for presentation before a gathering to be chaired by a member of the faculty.

After presentation there will be a session for questions and answers. A team of faculty members will assess the performance of the students.

PS04CVRE22: PROJECT WORK CREDITS : 16

The student will be required to prepare independent project report after field survey and data compilation for valuation of real estate.

WEF- July 2017