SARDAR PATEL UNIVERSITY VALLABH VIDYANAGAR



SYLLABUS EFFECTIVE FROM: 2017-18 FACULTY OF SICENCE MSC Real Estate Valuation Semester- I

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 ELIGIBIITY 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.

ANNEXURE - I

TABLE - 1

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

First Semester

(CBCS)

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

Second Semester

Core Courses							
1.	PS02CVRE21	PRIN. OF INSURANCE & LOSS	4	100	70	30	
		ASSE.					
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		
Elec	tive Courses						
7.	PS02EVRE21	URBAN LAND ECONOMICS	4	100	70	30	
8.	PS02EVRE22	WATER POLLUTION AND	4	100	70	30	
		CONTROL TECHNOLOGY					

Third Semester

Core Courses									
1.	PS03CVRE21	ENVIRONM	IENTAL		IMPACT	2	50	35	15
		ASSESSME	NT						
2.	PS03CVRE22	FINANCE,	BUSI.	&	MGNT.	2	50	35	15
		STUDIES							
3.	PS03CVRE23	TOWN	AND	RE	EGIONAL	4	100	70	30

		PLANNIG				
4.	PS03CVRE24	BUILDING TECHNOLOGY-II	4	100	70	30
5.	PS03CVRE25	VALUATION OF REAL	4	100	70	30
		ESTATE-II				
6.	PS03CVRE26	MAINT., REPAIRS & DILA OF	4	100	70	30
		BLDGS AND REAL ESTATE				
		MANAGEMENT				
7.	PS03CVRE27	COMPREHENSIVE VIVA-VOCE	1	50	50	
Elec	tive 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.	PS03CVRE23	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.

<u>ANNEXURE II</u> <u>M.SC.(REAL ESTATE VALUATION)</u> First Semester

PS01CVRE21: PRINCIPLES OF ECONOMICS CREDITS : 4

LINIT	DESCRIPTION	WFIGHTAGE
UNII	DESCRIPTION	(0/2)
Miana	Foonamica	(70)
MICTO-		25
1	Consumption: Indifference curve - consumer's surplus – elasticity;	25
	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.	
2	Pricing of products under different market conditions: perfect, imperfect	25
	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 slopping supply curve of labour -	
	determinants of supply of labour - theories of wages with special	
	reference to marginal productivity theory - modern theory -	
	collective bergeining and exploitetion of labour wage	
	differentials and non compating groups	
	(a) Conital and Interest Types of conital space interest not	
	(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.	
Macro	-Economics	
3	Functions & role of money : non-money economy;	25
	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 expanditure and output methods of computing	
	national income - income experiature and output methods of computing	
4	Revines and Investment: Servines and types of services determinents of	25
4	Savings and investment: Savings and types of savings - determinants of	25
	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 affects of	
	ratalier 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.	
a		

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

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
		(%)
Surveyir	g	
1	Introduction: Surveying and leveling, plane and geodetic surveys;	25
	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.	
2	Linear Measurement : Chains, bands, tapes; accuracies, errors in	25
	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.	
3	Elevation Measurement: Principles of different methods; leveling	25

	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.	
Engineer	ring Drawing	
4	Construction and use of plain and diagonal scales;	25
	Conventional arrangement of views; first and third angle projections;	
	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.	

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 corelation; 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. Spiegal

PS01CVRE25: PRINCIPLES OF VALUATION CREDITS : 4

UNIT	DESCRIPTION	WEIGHTAGE
		(%)
1	Cost, price and value; types of value; Various purposes of valuation,	25
	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.	
2	INCOME APPROACH TO VALUE	25
	Rent: Origin, classical theories and evolution of the concept	
	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	25
	Market – real estate market – market value; bell type curve	
	Comparison of sale instances – factors, methods and weightages	
	International Valuation Standards	
4	COST APPROACH TO VALUE	25
	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	

Suggested Books

- (i) Parks' Valuation 5th Edition (1998) by D.N. Banerjee Eastern Law House, Calcutta
- (ii) Appraisal Principles and Procedures by Henry A. Babcork
- 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
- (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
- (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	Elementary Jurisprudence:	25
	Law- its origin, sources and ramifications;	
	Legislative enactments - subordinate legislation - Judicial precedents.	
	Indian Legal System:	
	Salient features of the Indian Constitution, fundamental rights: directive	

	principles of the state policy;	
	Executive, Legislature and the judiciary; Centre - State relationship.	
2	Law of Contract:	25
	Formation of a contract, parties; void, voidable and unenforceable	
	contract; contingent contract; misrepresentation and fraud - effect	
	thereof.	
3	Termination of contract; remedies for breach; performance of contract;	25
	indemnity and guarantee; law of agency; general principles of tort; tort	
	affecting valuation.	
4	Local Government	25
	Types- Rural and Urban, constitutional provisions, powers and	
	functions;	
	Sources of revenue : Tax and Fee, Municipal Finance, essential civic	
	services;	
	Conveyancing	
	Outline procedure for sale of immovable property : contract and	
	conveyance; preliminary inquiries, open contract; contract by	
	correspondence;	
	Title: requisition and searches.	

- (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, NOx, SOx) 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	25

	Development Mechanisms (CDM): carbon sequestration, carbon	
	footprint, carbon trading, carbon market	
3	Climate Change: Definition of Climate and weather, Evolution of	25
	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	
4	Disaster management- Concept of disasters, causes, prevention and	25
	correction hazards related to Earthquakes, Tsunami, Volcanic eruption,	
	Cyclones, Floods, Drought, Landslides, Forest fires, Avalanches and	
	Pest infestation, El nino and La Nina.	

- 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.