

SNDT Women's University, Mumbai

Department of Resource Management

Master of Science

Resource Management & Interior Design

as per NEP-2020

Syllabus



(2023-24)

HEAD OF THE DEPARTMENT UNIVERSITY DEPT. OF RESOURCE MANAGEMENT S.N.D.T. Women's University Juhu Road, Santacruz (West), Mumbai-400 049.

Program	Master of Science (Home Science)
Specialization	Resource Management & Interior Design
Preamble	The Master's program in Resource Management & Interior Design is of two-year duration that helps students learn how to create awesome interior spaces – think homes or cool places where people work. The goal is to help students become pros in designing places that look great and make life better. The plan is to not only boost students' creativity but also make sure they understand the important job of being an Interior Designer. The institute is committed to giving students a top- notch education that prepares them for the real world of Interior Design. In today's world, being an Interior Designer is a big deal, and the institute wants to make sure students are not just good at it but also know how to do the job with honesty and integrity. As students go through this program, they'll learn a lot and be ready to kick off a cool career in Resource Management & Interior Design. Once students finish the program, they'll have the skills to create amazing interiors. They'll be all set for exciting opportunities in the world of Interior Design, making spaces look fantastic and improving the way people live and work. Get ready for a journey that opens doors to a future full of awesome possibilities in the world of design
Program Outcome	Upon completion of this Master's Program in Resource Management & Interior Design the student will be able
	 Demonstrate proficiency in selection and use of relevant technologies in design and in using available technologies to produce a design presentation. Demonstrate mastery of design techniques and concepts in interior design and commercial designing. Prepare and Present projects to clients, supervisors, and organizations Develop the plan for drainage system, plumbing system and water supply system and other Specialized services Formulate a creative solution for the problem keeping in mind aesthetics, functionality, legal codes, and project requirement. Identify the basics of contract documents and contract administration.
Program Specific Outcomes (POs)	After completing this program, Learner will

	 Demonstrate ability to identify, analyze, conceptualize, and solve interior design problems.
	 Demonstrate the mastery of design techniques and create newer concepts in interior design.
	 Demonstrate an understanding of aesthetics and scale related to interior space, and of the history and current state of design in the world.
	 Analyze the use of relevant technologies in design and intelligently apply available technologies to produce a meaningful design project.
	 Demonstrate sound understanding of the cultural and societal connections linking interior design trends and processes as well as a knowledge of business practices.
	 Demonstrate proficiency in presenting their own work as well as discussing and constructively critiquing the work of others.
Eligibility Criteria for Program	 Students who have obtained any one of the following degrees from any recognized University and have obtained the degree as specified below are eligible to apply: Kindly note that University updates the Revised Eligibility before the New Academic year. Anyone with a Bachelor's degree with minimum of 45% to 50% passing / Minimum "B / C" grade can enroll themselves for the above-mentioned post-graduation program. For students with 50% in BSc Resource Management, B. Design, B. Voc, BSc Family Resource Management, BSc Home Economics, BSc General Home Science, BSc Composite Home Science, BSc Family and Community Sciences For students with 45% percent in BSc Resource Management, B. Design, B. Voc, BSc Family Resource Management, BSc Home Economics, BSc General Home Science, BSc Composite Home Sciences For students with 45% percent in BSc Resource Management, B. Design, B. Voc, BSc Family Resource Management, BSc Home Economics, BSc General Home Science, BSc Composite Home Science, BSc Family and Community Sciences will have to undergo Bridge courses of 2 Credits in Interior Design.
Departments and Conducted Colleges)	25

<u>Year – I</u>:

S. No.	Courses	Type of Course	Credits	Marks	Int	Ext
	Semester I			II	I	
114711	Residential Interior Design (2+2)	Major (Core)	4	100	50	50
114712	Human Resource Management (Th)	Major (Core)	4	100	50	50
114723	Building Construction & Working Drawing (Pr)	Major (Core)	4	100	50	50
114724	Specialized Services - I (Pr)	Major (Core)	2	50	50	0
124711	Fundamentals of Ergonomics & Design (Th)	Major (Elective)	4	100	50	50
134711	Research Methodology (Th)	Minor Stream (RM)	4	100	50	50
			22	550	300	250
	Semester II				I	
214721	Advance Landscape Design (Pr)	Major (Core)	4	100	50	50
214712	Commercial Space Design (2+2)	Major (Core)	4	100	50	50
214723	Advance Software (Pr)	Major (Core)	4	100	50	50
214714	Statistics (Th)	Major (Core)	2	50	0	50
224711	Organization Behaviour (Th)	Major (Elective)	4	100	50	50
244641	Internship – Interior Design Firm/ Organization	Τίο	4	100	50	50
	1		22	550	250	300

Exit option (44 credit):

Post Graduate Diploma in Resource Management & Interior Design

<u>Year - II</u>

S. No.	Courses	Type of Course	Credits	Marks	Int	Ext
	Semester III		l			
314711	Product & Furniture Design (2+2)	Major (Core)	4	100	50	50
314712	Designing for Special Population (2+2)	Major (Core)	4	100	50	50
314723	Set Design (Pr)	Major (Core)	4	100	50	50
314724	Project Management (Pr)	Major (Core)	2	50	0	50
324721	Statistical Software for Data Analysis (Pr)	Major (Elective)	4	100	50	50
354731	Research Project (Pr)	RP	4	100	50	50
			22	550	250	300
	Semester IV		1		I	
414711	Professional Practices & Certification	Major (Core)	4	100	50	50
414712	Sustainable Interior Design (2+2)	Major (Core)	4	100	50	50
414713	Latest Material and Technologies in Interiors (2+2)	Major (Core)	4	100	50	50
424711	Scientific Writing (2+2)	Major (Elective)	4	100	50	50
454731	Research Project - Dissertation	RP	6	150	100	50
			22	550	300	250

Semester I

1.1 Major (Core)

Course Title	Residential Interior Design
Course Credits	2+2
Course Outcomes	After going through the course, learners will be able to
	1. Explore and apply the principles of design and create beautiful and functional spaces
	2. Plan and Design using knowledge about spaces, sizes, furniture, elements of design, colour theory, materials, textures, etc. and create balanced design for any spaces
	3. Differentiate between various aspects of design and develop a successful design project
	4. Develop skills in selection of colour, materials and furniture's as per clientele and create emotional appeal through designs
	5. Gain professional competency in designing residential areas
Module 1 (Credit 1):	Designing Residential Interior Spaces (Th)
Learning Outcomes	After learning the module, learners will be able to
	1. Gain competency in planning residential spaces efficiently
	2. Define the elements and principles of design proficiently
Content Outline	 Factors considered in planning of residential interior spaces Factors contributing to selection of furniture and furnishing: climate, needs and preferences, availability of materials, cost etc. Considerations for designing residential interior spaces: big and small apartment blocks
Module 2 (Credit 1):	Designing Residential Interior Spaces (Pr)
Learning Outcomes	After learning the module, learners will be able to
	 Develop the skill to judge the sizes with respect to colour, furniture and lighting
	2. Think in terms of design spaces as per needs and preferences of the clients with optimum use of resources
Content Outline	 Drawing Plan of one bedroom apartment Design aspects- sectional elevations, rendering of plan and elevations, flooring, lighting layout, false ceiling and views for residential plan
Module 3 (Credit 1):	Ergonomics Design Principles in Residential Spaces (Th)
Learning Outcomes	After learning the module, learners will be able to

	 Design places keeping in mind the users for whom the space is created
	2. Visualize the space with respect to purpose of usage of the place
Content Outline	 Ergonomic principles, its importance and application in designing residential interior spaces with focus on usability of spaces Special reference to furniture requirements and placement for different habitable areas and family composition
Module 4 (Credit 1):	Residential Design using AutoCad (Pr)
Learning Outcomes	After learning the module, learners will be able to
	1. Gain the competence in using software for designing purpose
	2. Design efficiently using shortcut commands of AutoCAD
Content Outline	 AutoCAD plan for residential block for bungalow design Sectional elevations, rendering, flooring layout and electrical layout Two views of any two areas.

Total Marks: 50 (Internal)

- 1. Individual Assignment: Designing small residence spaces
- 2. Group Project: Presentation on Application of Design principles used in interior design
- 3. Individual Project: AutoCad design project
- 4. Case Study: Field Visit to study Bungalow design

References:

- 1. Dechiara J., Panero J and Zelnik M (2017). Time-Saver standards For Interior Design and Space Planning. Second Edition. Published by McGraw-Hill Education (India) Pvt. Ltd., UP.
- 2. Grimley C and Love M. (2018). The Interior Design Reference & Specification Book Updated & Revised: Everything Interior Designers Need to Know Every Day. Sudarshan Book Distributors.
- Mitton M and Nystuen C. (2022). Residential Interior Design: A Guide to Planning Spaces. 4th Edition. Wiley publication.
- 4. Neufert Ernst. (2019). Neufert Architects' Data. Fifth Edition. Published by Wiley Blackwell.
- 5. Null Roberta (2017). Universal Design: Principles and Models. 1st Edition. CRC Press.
- 6. Panero J and Zelnik M (1979). Human Dimension & Interior Space: A Source Book of Design Reference Standards. First Edition. Published by Watson-Guptill.
- 7. Ramstedt Frida. (2020). The Interior Design Handbook: Furnish, Decorate, and Style your Space. Published by Clarkson Potter
- 8. Rao, P. M. (2020). Interior Design: Principles and Practice. Standard Publishers and Distributors Pvt. Ltd.
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1.2 Major (Core)

Course Title	Human Resource Management
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	1. Conversant with the nature and fundamentals of human resources.
	2. Apply different methods in managing human resources.
	3. Competent in hiring employees and deciding employee remuneration.
	4. Proficient in motivating and maintaining employees.
	5. Capable of developing industrial relations.
Module 1 (Credit 1):	Introduction to Human Resource Management
Learning Outcomes	After learning the module, learners will be able to
	1. Formulate the human resource policies in an organization
	2. Design and conduct training programmes for the employees efficiently
Content Outline	 HRM: Nature, significance, scope, functions, objectives of HRM Organization of HR Department Principles, policies and Models of HRM HRD: Significance, scope, objectives and techniques of HRD Functions and Attributes of HRD manager Communication skills and organizational development Employee Training: Assessment of training needs, training methods, training procedures, advantages of training and evaluation of training programs
Module 2 (Credit 1)	: Human Resource Planning and placement
Learning Outcomes	After learning the module, learners will be able to
	1. Plan the requirement of human resource in organization and have good recruitment and selection strategies
	2. Efficiently organize the orientation and training programmes for new hired employees
Content Outline	 Nature of Human Resource Planning - Benefits of HR planning, Process of HR planning, Problems, Factors affecting and recent trends in HRP Job Design and Job Analysis - Meaning and approaches to job design, Factors affecting, purpose and process, problems, uses and recent developments in job analysis Recruiting Human Resources - Need, Objectives and importance of recruitment, recruitment policy and strategy,

Module 3 (Credit 1):	 Recruitment process, traditional and modern sources, techniques, factors affecting and alternatives to recruitment Selecting Human Resources - Role, nature and definition of selection, Organization and process of selection, factors affecting and barriers to effective selection Inducting and Placing New Hires - Nature, purpose and different stages of orientation process, employee orientation programs, evaluation and problems and placement-meaning and problems Performance Appraisal and Job Evaluation
Learning Outcomes	After learning the module, learners will be able to
	1. Design the performance appraisal forms for different categories of employees and use right method for appraisal
	Differentiate between job evaluation and performance appraisal and have alternatives to job evaluation
Content Outline	 Performance Appraisal - Need for performance appraisers and appraisal, Process and methods of performance appraisal - Modern methods (BARS, assessment center MBO, HRA, Psychological appraisals), Sensitivity training and management grid, Uses and purposes of performance appraisal, Potential appraisal and challenges in performance appraisal, Edward Deming's view on performance appraisal Job evaluation - Meaning and objectives of job evaluation, difference between job evaluation and performance appraisal, Principles and Procedure of Job Evaluation, Problems and alternative to job evaluation
Module 4 (Credit 1): Development	Employee Remuneration and Career Planning and
Learning Outcomes	After learning the module, learners will be able to
	1. Design and implement the remuneration and reward policy for the employees
	2. Guide the employees for career planning and developmental stages for career advancement
Content Outline	 Managing Remuneration - Employee Remuneration, Components of employee remuneration, Theories of employee remuneration, Influencing factors of remuneration, Remuneration plans, challenges of remuneration. Concepts of wage and salary administration and their Objectives, Role of reward system, factors affecting wage/salary levels, Wage Boards and Pay Commissions, Wage Incentive, profit sharing, Bonus and Managerial Compensation, Fringe Benefits, Non- Monetary Rewards Career Planning and Development -Career planning and development for employee and organization, career development programs, lob satisfaction, career planning water
	development programs, Job satisfaction, career personality test, career planning process, potential challenges in Career Planning and Development

Total Marks: 50 (Internal)

- 5. Individual Assignment: Differentiate between HRM & HRP
- 6. Group Project: Recruitment, selection and hiring methods employed by organizations
- 7. **Individual Project:** Design an appraisal form for different categories of employees
- **8. Case Study:** To take up any one organization and study their career planning and career development strategies.

References:

- 1. Ashwathappa, K. (2004) Human Resource and Personnel Management, 3rd edition Tata McGraw Hill Publication.
- 2. Bratton, J. & Gold, J (1999) Human Resource Management Theory and Practice, London, MacMillan Business.
- 3. Bhambra, A. (1999), Nature of Human Resource Management, New Delhi, Commonwealth Publishers.
- 4. Rao, S. (2002) Personnel and Human Resource Management, Himalaya Publishing House.
- 5. Armstrong, M. (1992): A Handbook of Human Resource Management, New Delhi, Adity Books Pvt Ltd
- 6. Chopra, R.K. (2001): Management of Human Resources. Allahabad, KitabMahal.
- 7. Dessler, G. (2001): Human Resource Management. New Delhi, Prentice Hall.
- 8. SubbaRao, P. (2002): Personnel and Human Resource Management, Himalaya Publishing House.

1.3 Major (Core)

Course Title	Building Construction & Working Drawing
Course Credits	2+2
Course Outcomes	After going through the course, learners will be able to
	1. Apply different types of construction materials in Interiors
	 Apply the knowledge of the properties, trends and usability of the material, and its cost.
	 Apply the type of structural systems and different type of techniques in construction
	 Use the structure and technical specification of items in working drawing
	5. Design the furniture with the knowledge of joinery for wood work
Module 1 (Credit 1):	Construction – Brick & Partition
Learning Outcomes	After learning the module, learners will be able to
	1. Define the structural knowledge in construction work
	2. Construct the partition walls efficiently
Content Outline	 Construction of Half Brick (Stretcher Bond with R.C.C Patli) Construction of Light Weight Partition walls
Module 2 (Credit 1):	Construction – Furniture & Kitchen Platform
Learning Outcomes	After learning the module, learners will be able to
	1. Carry out independently the construction of furniture's
	2. Design the kitchen platform skillfully
Content Outline	 Wardrobe Design Single Bed with Side Table Kitchen Platform
Module 3 (Credit 1):	Working Drawing
Learning Outcomes	After learning the module, learners will be able to
	1. Make the detailed drawing of the furniture's
	2. Draw the furniture with details of materials and joineries.

Content Outline	 Sofa Chair Dining Chair Dining Table
Module 4 (Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	1. Effectively make the detail drawing for the construction of the furniture piece
	Apply knowledge of joineries in drawing and make carpenter understand the construction
Content Outline	Service CounterExecutive Table with Credenza

Total Marks: 50 (Internal)

- 1. Individual Assignment: Documentation of 10 materials used in Interior Design
- 2. **Group Project:** Joineries sample identification and presentation
- 3. Individual Project: Market Survey with Cost Analysis
- 4. Classroom discussion: Practically studying the construction in the classroom.

References:

- 1. Allen E. and Iano J. (2019). Fundamentals of Building Construction Materials & Methods. Seventh Edition. Wiley.
- 2. Arora, S. P., and Bindra, S.P. (2010). A Textbook of Building Construction. 2014th Edition. Dhanpat Rai & Company Publication.
- 3. Barry, R. (1978). Construction of Buildings. Metric 2 Revised Edition, Vol, V, HarperCollins Publishers Ltd.
- 4. Barry, R. (1986). Construction of Buildings. Third Revised Edition, Vol, IV, HarperCollins Publishers Ltd.
- 5. Barry, R. (1999). The Construction of Buildings. Sixth Edition. Vol. I, ELBS Publication.
- 6. Barry, R. (1999). The Construction of Buildings. Fifth Edition, Vol, II, ELBS Publication.
- 7. Barry, R. (1999). The Construction of Buildings. Fourth Edition, Vol, IV, Affiliated East-West Press Pvt. Ltd.
- 8. Barry, R. (2010). The Construction of Buildings. Fourth Edition, Vol, III, ELBS Publication.
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- 10. Boyne, D.A.C.A. and Wright, L. Architect's Working Detail Vol. I-V, The Architectural Press Ltd. London.
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- 12. Boyne, D.A.C.A. and Wright, L. (1982). Best of Architect's Working Detail Vol. 2 Internal. John Wiley and Sons.
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- 14. Ching, F.D.K. (2020). Building Construction Illustrated. Sixth Edition. Wiley. Van Nostrand.
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- 16. Chudley, R., Greeno, R., & Kovac, K. (2020). Building Construction Handbook. Twelfth Edition. Routledge.
- 17. Diwan S (1999): Sanskruti- A Manual of Interior Design
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- 20. Kumar, S. (2020). Building Construction. Standard Publishers Distributors.
- 21. Kumar, S. (2018). Building Construction. Twentieth Edition. Standard Publishers Distributors.
- 22. Mac kay WB (2013). Building Construction. Fourth & Fifth Edition. Vol. 1-5. Pearson Education India.
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- 24. Mehta, M., Scarborough, W., & Armpriest, D. (2016). Building Construction: Principles, Materials, Systems. Second Edition. Pearson Education India.
- 25. Muller, E.F. & Grau P.A. (1999). Reading Architectural Working Drawings: Residential and Light Construction. Fifth Edition. Peachpit Press.
- 26. Pierce, S.R. and Mills, E.D. (1985) Planning: The Architect's Handbook. Tenth Edition. Butterworth-Heinemann Ltd.
- 27. Porter, Brian (1990) Carpentry and Joinery, Londan Arnold
- 28. Punmia, B. CA. K. & Jain A. K. (2016). Building Construction. Eleventh Edition. Laxmi Publications.
- 29. Rangwala S.C, Building Construction Book. Charotar Publishing House Pvt. Ltd. Anand
- 30. Sharma, R. K. (2020). Building Materials. Dreamtech Press.
- 31. Styles, K. & Bichard, A. Working Drawings Handbook. Fourth Edition. Elsevier. Architectural Press.
- 32. Whalton, J.A (1948): Wood work theory and Practice, George, G. Harrap & Co. Ltd.

1.4 Major (Core)

Course Title	Specialized Services (Pr)
Course Credits	2
Course Outcomes	After going through the course, learners will be able to
	 Demonstrate the knowledge of systems and technologies in home services
	2. Implement and execute the knowledge of services to spaces
	 Analyse the requirement of services in building and provide immediate solution
	4. Apply the knowledge in implementation of services in interiors
	Comprehend the knowledge of market survey for efficient use of materials present
Module 1 (Credit 1):	Specialized Services – Water Supply & Drainage, Electrical & HAVC
Learning Outcomes	After learning the module, learners will be able to
	 Recommend types of materials, fittings and fixtures for various services
	2. Explain the principles used to plan various services
Content Outline	 Water Supply Water supply systems to residential and commercial premises Fixtures, pipes and fittings used in water supply system and its selection. Principles to be followed in water supply system for residential and commercial interior work. Drainage System
	 Types of drainage systems provided in residential and commercial Buildings Fixtures, fittings and pipes used in drainage systems and its selection. Principles to be followed in drainage system for residential and commercial interior work Electrical Layout System

Module 2 (Credit 1): Fire Fighting & Security Systems Services			
Learning Outcomes	After learning the module, learners will be able to		
	1. Select the right materials for the installation of specific service		
	2. Carry out installation of various technologies for services efficiently		
Content Outline	 Fire Fighting System Systems for suppression of Fire (Dry risers, Wet Risers, sprinklers, etc.,) and their installation norms Systems for fire extinguishers, Dry chemical powders, CO₂, Water type etc., and their installation norms. Identification of material which are used in interior work – a) fire resistance b) prone to catching fire fact. Security System 		
	 Introduction to security and principles of security (as per situations). Types of security systems, field devices such as switches, sensors, card-readers, locks, cameras etc. Access controls Installation norms, Uses and applications 		

Total Marks – 50 (Internal)

- 1. **Group Project:** Making security layout for interior layout common to all students
- 2. **Individual Project:** Preparing Air- Conditioning layout for given interior layout along with distribution and ducting along with sizes and legend
- 3. **Individual Project:** Market Surveys of materials/services with Costing and presentation.
- 4. **Field Visit:** Field observation of Residential building, colony, and Commercial building with Costing with presentation.

References:

- 1. Ananthanarayanan, P. N. (2013). Basic Refrigeration and Air Conditioning. Fourth Edition. McGraw-Hill Education, India.
- 2. Arora, C.P. (2010). Refrigeration and Air Conditioning. Fourth Edition. Prentice Hall India Learning Pvt. Ltd.
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1.5 Major (Elective)

Course Title	Fundamentals of Ergonomics & Design
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	1. Define and apply the ergonomics principles in everyday life activities
	2. Design the workspaces as per human dimensions and needs
	3. Carryout work efficiently by applying principles of good workplace design, postures, and environment at work
	4. Apply the principles of preventive ergonomics to overcome workplace and occupational risks
	5. Differentiate between good ergonomics and poor ergonomics
Module 1 (Credit 1)	: Domains of Ergonomics
Learning Outcomes	After learning the module, learners will be able to
	3. Define various domains of ergonomics
	4. Differentiate between fitting job to man and fitting man to job
Content Outline	 History of Ergonomics, FJM & FMJ Physical Ergonomics – Anthropometry, Anatomy, Work Physiology, Biomechanics Cognitive Ergonomics – Stress, Fatigue, perception, memory, reasoning, and motor response Organizational Ergonomics - team work, job shifts, work satisfaction, schedules, policies, and ethics
Module 2 (Credit 1)	: Ergonomics, Health and Design
Learning Outcomes	After learning the module, learners will be able to
	1. Explore the relationship between people and design and minimize the postural risks
	2. Define the Man-Machine-Environment relationship and design the environment around it
Content Outline	 Anthropometry principles in designing workplaces Relationship between Ergonomics, health and design, MME system Workplace and Postural risks – MSD's, Injuries, Pains/aches, etc. Impact of design on Human Health Preventive measures

Module 3 (Credit 1) :	Design Principles
Learning Outcomes	After learning the module, learners will be able to
	1. Use the various principles of design in designing different workplaces with different needs
	2. Design and analyze workplaces and products and apply innovative ideas to modify/develop user-friendly design
Content Outline	 Principles of Design, Universal Design, UX/VI Design Six Pillars of Ergonomics Design Product concept and design innovation Workstation Design and Analysis
Module 4 (Credit 1) :	Application & Benefits of Ergonomics in Design
Learning Outcomes	After learning the module, learners will be able to
	1. Create design based on anthropometric data
	2. Design furniture's, workplaces, facilities for all
	 Apply the knowledge of anthropometry for designing any spaces for the varied population
Content Outline	 Furniture and facilities Design for residences and commercial areas Application in workplace design – offices, industrial design, hospital, institutions, school facilities, common spaces, etc. Inclusive Designing for special population

Total Marks – 50 (Internal)

- 5. **Individual Assignment:** To observe and analyze various workplace in terms whether ergonomics principles are followed or violated. Report to be submitted.
- 6. **Group Project:** To make a checklist by referring various available checklist to assess the Impact of MME system on workers in terms of MSD's and other occupational risks.
- 7. **Individual Project:** Using principles of design, design/redesign/modify any one tool/product
- 8. **Laboratory Study:** To learn how to take anthropometric measurements using anthropometer and design any one furniture/workplace.

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- 2. Anton, T.J. (1989): Occupational Safety and Health Management, 2nd edition, (SanFransico, Tokyo).
- 3. Astrand & Rodahl. (1977). Textbook of Work Physiology: Physiological Bases of Exercise McGraw-Hill Series, USA.

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- 10. Oborne, D.J. (1982) (2nd edition): Ergonomics at Work, (Chichester, New York, Toronto); Chichester: John Wiley & Sons.
- 11. Pleasant, S. (2001): Body Space, Taylor and Francis (Great Britain); published by Taylor and Francis, C., London.
- 12. Pleasant, S. (1991): Ergonomics, Work and Health, Mac Millan Press, London

1.6 Minor Stream (RM)

Course Title	Research Methodology
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	1. Develop a scientific approach and know the processes of research
	2. Develop the competence for selecting methods and tools appropriate for research topics
	3. Understand concepts of statistical measures of central tendency, dispersion, variability and probability
Module 1 (Credit 1):	The Research Process
Learning Outcomes	After learning the module, learners will be able to
	1. Understand process of research and its relationship to knowledge and science.
	2. Identify research process based on actual researches conducted.
	3. Recognize process of research problem formulation.
Content Outline	 The Research Process Scientific approach to enquiry in comparison to native, common-sense approach Knowledge, theory and research Role, need and scope of research in the discipline of Home Science Assignment: Differentiate between investigative reporting and research report (with examples to be brought by students as exercise) Steps in Research Process and Elements of Research Identifying interest areas and prioritizing Selection of topic and considerations in selection Review of related literature and research Variables- types of variables including discrete and continuous variables Conceptual definitions and operational definitions Concepts, hypotheses and theories Hypothesis- meaning, attributes of a sound hypothesis, Stating the hypothesis and types of hypothesis Hypothesis testing- null hypothesis, sample distribution, level of significance, critical regions, Type I and Type II errors Research questions, objectives and assumptions
Module 2 (Credit 1):	Types of Research
Learning Outcomes	After learning the module, learners will be able to
	1. Understand and apply different types of research procedures.

	 Able to design research studies by knowing methods of research.
Content Outline	 Basic and Applied research, Qualitative and Quantitative research (brief review of differences) Historical research Descriptive research methods – survey, case study,
	correlational study, content analysis, causal-comparative research
	 Analytic studies- pre-experimental, experimental research, quasi experimental research Qualitative research, Ethnography
	 Evaluative research- general characteristics, use of qualitative methods in enquiry
	 Scope and importance in Home Science.
Module 3 (Credit 1):	Sampling
Learning Outcomes	After learning the module, learners will be able to
	1. Understand different techniques of sampling.
	2. Apply sampling procedures for specific research problems.
Content Outline	 Rationale, characteristics- meaning, concept of population and sample, and utility Types of sampling and generalizability of results
	 Probability sampling - simple random sample, systematic random sample, stratified random sampling etc - random and
	 Non-probability sampling - purposive samples, incidental
	 Add probability sampling "purposive samples, incidental samples, quota samples, snowball samples General consideration in determination of sample size
Module 4 (Credit 1):	Tools for Data Collection
Learning Outcomes	After learning the module, learners will be able to
	1. Define and differentiate different tools of data collection.
	2. Design different tools of data collection
Content Outline	 Primary and secondary methods of data collection Different types of questionnaires, rating scales, check lists, schedules, attitude scales, inventories, standardized tests, interviews, observation
	 Development of tools, estimation of reliability and validity of tools
	 Procedure for preparation of the tool, administration of tools for data collection
	Procedure for data collection
	 Planning for data analysis-coding of responses

- 1. **Assignment 1:** Recognize different Types of variables.
- 2. **Classroom activity 1:** Hypothesis formations and research questions from Research readings students identify hypothesis/research questions Discussion
- 3. **Presentation 1:** Construction of tools for data collection a) types of questions b) Questionnaire c) interview schedule d) observation e) scales
- 4. **Presentation 2:** Types of sampling methods used in research
- Classroom Activity 2: Differentiate between (a) basic and applied research (Exercise to be based on actual research papers published in accredited journals) (b) qualitative and quantitative research
- 6. **Assignment 2:** Identify 5 research papers on particular area/topic of research and write review.

References

- 1. Bell, J. (1997): How to Complete Your Research Project Successfully: A Guide for First-time Researchers, UBSPD, New Delhi.
- 2. Festinger, L. and Katz, D. (ed.) (1977): Research Methods in the Behavioral Sciences, Amerind Publishing, New Delhi.
- 3. Gupta, S. (2001) "Research Methodology and Statistical Techniques", Deep and Deep, New Delhi.
- 4. Jain, G. (1998): Research Methodology: Methods and Techniques, Mangal Deep, Jaipur.
- 5. Kothari, C.R. (2000): Research Methodology: Methods and Techniques, WishwaPrakashan, New Delhi.
- 6. Kumar, A. (1997): Social Research Method (The Art of Scientific Investigation), Anmol Publication, New Delhi.
- 7. Kumar, A. (2002): Research Methodology in Social Sciences, Sarup and Sons, New Delhi.
- 8. McBurney, D.H. (2001): Research Methodology, Thomson-Wadsworth, Australia.

2.1 Major Core

Course Title	Advance Landscape Design
Course Credits	2+2
Course Outcomes	After going through the course, learners will be able to
	 Develop landscaping skills through principles and elements of design knowledge and implement in designs
	 Demonstrate proficiency in selection of plants, shrubs, creepers, accessories, and lighting solutions
	 Gain competency in designing roof top gardening, terrace landscaping, kitchen gardening, organic farming, etc.
	 Use practical experience from field visits to nursery, survey of terrace / rooftop for projects
	 Justify the plan and design through illustrations to the clients competently
Module 1 (Credit 1):	Principles and Elements of Landscape Design
Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module	1. Plan the designs by applying knowledge of principles and elements of design
e.g. Define, Differentiate, Carry out, Design, etc)	 Develop skills in selection of accessories to match with design for landscaping
Content Outline	Principles and Elements of Landscape design
	 Principles of Landscaping Elements of design - Basic - Line, colour, texture, forms, scale Advanced - water features, sculptures, stones, sitting, fencing, lighting, other artifacts used in landscaping Benefits, principles, applications in design Case study
Module 2 (Credit 1):	Site Analysis
Learning Outcomes	After learning the module, learners will be able to
	1. Select site, take measurement, do analysis of site and make plan for landscaping
	 Identify the accessories and ornamentation needed for landscaping
Content Outline	Site Analysis
	 Site selection, landscape zoning, measurement, site checklist, soil water bodies, site analysis, etc. Hard landscape - Functions, types, criteria's, design, etc. Outdoor Lighting - types of light, lighting fixtures, electrical accessories, solar energy, etc. Water and irrigation system - water needs and sources, cascades, fountains, water bodies, ponds, etc.

Module 3 (Credit 1):	Concept Drawings & Case studies
Learning Outcomes	After learning the module, learners will be able to
	1. Categorize different types of plants for landscaping
	2. Select the right types of plantations to design the garden
Content Outline Module 4 (Credit 1):	 Concept Drawings & Case studies Concept drawings for soft landscape, planting plans, specifications, and estimation. Case study on terrace garden, balconies, organic farming, medicinal, butterfly garden, bird attracting garden, etc. Actual field study – selection of site and implementation of landscape design e.g., Terrace Garden, kitchen garden, roadside landscaping, garden design, etc. Visit to local nursery for plant knowledge and selection
Learning Outcomes	After learning the module, learners will be able to
-	 Recommend the right placement of plants, creepers, shelters, walkways for visual appeal
	2. Design and plan landscaping for different areas efficiently using plantations by applying principles of sustainability
Content Outline	 Introduction to Planting Design Understanding plant use and selection, ecologically sustainable plant use, criteria for planting design Functional & Visual consideration in plant designing - Boundaries, screening, shade, shelter, barriers, Trees, shrubs, ground cover and creepers, form, shape, colour, texture, growth characteristics Planting for special areas - hotels, parking area, highways, roadside, corporate areas, industries sites, institutions, hospitals, terraces, roofs, vertical gardens, air plants, etc. Plants for sustainability - ratings GRIHA, LEEDS, etc.

- 1. **Assignment 1:** To visit the SNDTWU Juhu campus and see the existing landscaping and preparing a report on visit and observations made.
- 2. **Classroom activity 1:** To select the site for landscaping on SNDTWU Juhu Campus and make plan requirements, make concept design, site measurement, execute plan either in AutoCAD or drawing on paper.
- 3. **Presentation 1:** Visit the local nursery for plant information and make PPT presentation

- 4. **Presentation 2:** Presentation of any ONE case study on Terrace Garden, vertical garden, kitchen garden, organic farming, airport landscaping, corporate office landscaping, roadside landscaping, hospital/hotel/park landscaping, etc.
- 5. **Classroom Activity 2:** Classroom discussion and brainstorming on the designs of the fellow classmates.

References

- 1. Brown J.(2000) The Modern Garden: Princeton Architectural Press
- 2. Harris.C.W and Dine.N.T. (1997) Time Saver Standards For Landscape Architecture, Mcgraw– Hill International Edition, Arch. Series
- 3. Lyall S; (1992) Designing the New Landscape: Thames and Hudson
- 4. Reid G. W: (1993). From Concept to Form: In Landscape Design. John Wiley & Sons
- 5. Storm.S and Kurt Nathan P.E. (1985) Site Engineering for Landscape Architects, AVI Publishing Company
- 6. Shaheer .M, Dua G.W and Pal.A .(2012) Landscape Architecture in India: a reader .India: La, Journal of Landscape Architecture

2.2 Major Core

Course Title	Commercial Space Design
Course Credits	2+2
Course Outcomes	After going through the course, learners will be able to
	1. Optimize the space usage and apply trends in designing commercial spaces
	2. Conceptualize innovations in commercial designing
	3. Relate the theories to practical applications in designing
	 Demonstrate the abilities to resolve on site challenges in implementation of designs
	5. Show competence and professionalism while executing the project confidently
Module 1 (Credit 1):	Commercial Interior Space Design (Th)
Learning Outcomes	After learning the module, learners will be able to
	1. Differentiate between various factors and material needed for designing commercial establishments
	 Plan, design and execute the projects independently and efficiently
Content Outline	Introduction to commercial interior space design.
	 Types of commercial interior spaces Factors influencing designing of commercial interior spaces Materials used in designing commercial interior spaces
Module 2 (Credit 1):	Designing Considerations for Commercial Spaces (Th)
Learning Outcomes	After learning the module, learners will be able to
	 Appraise the plan layouts for small and large commercial places as per design specifications
	 Relate design critically with respect to different factors that will influence the outcome of any design project.
Content Outline	 Planning factors for the commercial space, attributing factors, composition of design, factors influencing design, Specifications for Design Designing for Shops, Restaurants, Clinic, Offices, Library etc.
Module 3 (Credit 1):	Commercial Interior Space Design (Pr)
Learning Outcomes	After learning the module, learners will be able to

	 Draw the plan layouts for small and large commercial places as per design specifications
	 Justify each minute detail of design project to the client efficiently and professionally.
Content Outline	 Interior designing layout of large (100 m2 to 250 m2) commercial spaces (banks, offices, polyclinics etc.) Floor Plan, Elevations, Ceiling layout, Electrical layout, Perspectives of the given project.
Module 4 (Credit 1):	Designing Considerations for Commercial Spaces (Pr)
Learning Outcomes	After learning the module, learners will be able to
	 Judge the materials while selecting them for project based on market survey and theoretical knowledge
	Plan, Design and execute the projects independently based on clientele profile and needs
Content Outline	 Survey of existing commercial space Continuous assessment of different needs of the users' group, conceptualization of design with reference to space, purpose and User needs i.e., Client Profile and Requirements, while planning the furniture layout and selection of materials for the design.

Marks 50 (Internal)

- 1. **Assignment 1:** Planning and layout of one Commercial place (bank, office, clinic, etc.).
- 2. Classroom activity 1: Preparing Client Profile and requirements
- 3. **Presentation 1:** Visit the local commercial establishments, do survey, write report and make PPT presentation
- 4. **Classroom Activity 2:** Classroom discussion and brainstorming on the designs of the fellow classmates.

References

- 1. Neufert Ernst. (2019). Neufert Architects' Data. Fifth Edition. Published by Wiley Blackwell.
- 2. Grant Camden Kirkpatrick. (1994). Architecture & Interior Design Library.
- 3. Cerver, F. A. (1996). Commercial Space: Boutiques. Arco Editorial SA, 1996.
- 4. Stafford Cliff, The Best Exhibition Stand Design 2, Roto Vision Sa Switzerland
- 5. Velarde G. (2017). Designing Exhibitions: Museums, heritage, trade and world fairs. Second Exhibition. eBook. Routledge.
- 6. Barr, V and Field, K. (1999). Stores: Retail Display and Design, PBC International Inc.
- 7. Arian Mostaedi. (2003). HotShops. Carles Broto & Josep Ma. Minguet.
- 8. Rolshoven Martin, Exhibition Design, Rockport Publications
- 9. Jeong J.I., Seong E.D., Interior Design Bar and Restaurant.

2.3 Major Core

Course Title	Advance Software (Pr)
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	1. Gain technological professional competence and apply in interior design projects
	2. Use right type of software based on design requirements
	 Develop skills through technology and become confident in using the software's
	 Apply different commands for editing the design at different stages of project
	5. Save time by making use of different user-friendly software's
Module 1 (Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module	1. Enhance the designing abilities with digital drafting skills
e.g. Define, Differentiate, Carry out, Design, etc)	2. Visualize the design in both 2-dimension and 3 – dimension
Content Outline	 AutoCad Google Sketchup Adobe Photoshop
Module 2 (Credit 1)	<u> </u>
Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module	1. Create high quality renderings with great details
e.g. Define, Differentiate, Carry out, Design, etc)	2. Carry out the design process using suitable tool
Content Outline	 Autodesk 3Ds Max – superb graphics for 3D animations, images, high quality rendering, materials, textures, colour editor making design look realistic. V-Ray – 3D computer graphics/rendering software, perfect tool for lighting effects and to create quality 3D visualizations all in Sketchup
Module 3 (Credit 1)	1

Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module e.g. Define,	 Apply the knowledge of infurnia to convert 2D plans to accurate 3D depictions and create own library of materials, wallpapers, furnishings, etc.
<i>Differentiate, Carry out, Design, etc)</i>	 Create beautiful designs through rendering software Archicad 25
Content Outline	 Infurnia – for collaborative work, customized cabinet tools Revit Software -3D visualizations Archicad 25– architectural rendering software, easy 2D to 3D switchover, creates beautiful designs Gather – project management software
Module 4 (Credit 1):	Application of Advanced Software
Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module e.g. Define,	1. Use skill to update plans into 3D visualizations
<i>Differentiate, Carry out, Design, etc)</i>	Transfer the files and share work with ease to clients and colleagues
Content Outline	 Application of different software's in planning, designing, rendering, graphic presentations, etc.

Marks 50 (Internal)

- 1. Assignment 1: To make plan and render using Autocad software
- 2. Classroom activity 1: To make your own library of materials and create design
- 3. Classroom Activity 2: To make 3D views of the plan in google sketchup
- 4. **Presentation 1:** Use adobe photoshop and make graphic presentation
- 5. Presentation 2: Presentation of any ONE project in one of the software's

References

1. Online software's – students' version

2.4 Major Core

Course Title	Statistics
Course Credits	2
Course Outcomes	After going through the course, learners will be able to
	1. Discriminate between parametric and non-parametric tests
	2. Apply statistical tests for data analysis for both large and small samples
	3. Analyse and interpret the results based on statistical inferences drawn
Module 1 (Credit 1):	Introduction to Statistics
Learning Outcomes	After learning the module, learners will be able to
	1. Use the concept of statistical measures in research
	2. Carryout the management of data using SPSS and MS Excel
Content Outline	 Concepts Definition, conceptual understanding of statistical measures, popular concepts and misuse of statistics Normal Distribution and its Properties Normal distribution Binomial distribution Probability, use of normal probability tables, area under normal distribution curve Parametric and non-parametric tests Data Management Planning for data analysis – coding of responses, preparation of code book Coding of data Use of statistical programs MS Excel SPSS
Module 2 (Credit 1):	Data Analysis
Learning Outcomes	After learning the module, learners will be able to
	1. Define the grouped and un-grouped data
	2. Apply the large sample and small sample tests and interpret results
Content Outline	 Data Analysis Quantitative analysis, descriptive statistics, inferential statistics: Uses and limitations, Summation sign and its properties Proportions, percentages, ratios

 Measures of central tendency-mean, median, mode-
 arithmetic mean and its uses, mid – range, geometric mean, weighted mean Measures of dispersion /variability- range, variance, standard deviation, standard error, coefficient of variation, Kurtosis, skewness Grouped data-frequency distribution, histogram, frequency polygons, percentiles, quartiles, tertiles, ogive Large and Small Sample tests and interpretation Z-test for single proportions and difference between proportions Large sample tests for single mean and difference between means Small sample tests- `t'-test, paired 't'-test, `F' Test

Total Marks – 25 (Internal)

- 1. **Individual Assignment:** Assignment on probability, Non-parametric & parametric tests
- 2. Classroom Assignment: To carryout large and small sample tests and interpretation of results

References:

- 1. Gupta S.P. (2019). Statistical Methods. 46th Edition. Sultan Chand and Sons, India.
- 2. Pandit, D.N. (2022). Statistics: A Modern Approach. Hindustan Publishing Corporation, India.
- 3. Gun, A.M., Gupta, M.K. and Dasgupta, B. (2013). Fundamentals of Statistics. Vol. 1, World Press.

2.5 Major Elective

Course Title	Organization Behavior
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	1. Understands the behaviour of individuals and group processes in organizations.
	2. Know the processes used in organization to achieve efficiency and effectiveness
	3. Know organizational structure through practical experience
	4. Understand different personality traits of individuals, their values, attitudes, and perceptions
	5. Demonstrate the characteristics and qualities needed for leadership and motivation
	6. Comprehend the knowledge to understand the group behavior, power and politics used in organizations
	7. Understand the reasons for conflicts and apply techniques to resolve them for development of the organization and employees
	8. Demonstrate organizational skills to communicate the organizational structure, culture and changes taking place in organization
Module 1 (Credit 1):	Introduction to Organizational Behavior
Learning Outcomes	After learning the module, learners will be able to
	1. Define history of organizational behavior in chronological order
	 Demonstrate the knowledge of various models of organizational behavior
Content Outline	 Scope, significance, History and development of Organizational Behavior as a subject. Meaning and definition of Organizational Behavior Models of Organizational Behavior
Module 2 (Credit 1):	The Individual
Learning Outcomes	After learning the module, learners will be able to
	1. Identify leadership qualities and apply in organization
	2. Differentiate individual aspects of human behaviour in organization
Content Outline	 Foundation of individual behaviour. Personality and learning. Perception and attribution.
	 Values, attitudes and job satisfaction.

	Motivation, concept and application.	
	Leadership.	
Module 3 (Credit 1): The Group		
Learning Outcomes	After learning the module, learners will be able to	
	1. Identify the importance of working as a team and team	
	building in organization	
	2. Define different aspects of human behaviour like power,	
	politics, conflicts in organizations	
Content Outline	Foundation of group behaviour.	
	 Communication. 	
	Power and politics	
	 Conflicts and negotiation 	
Module 4 (Credit 1): Organizational Dynamics		
	5 ,	
Learning Outcomes	After learning the module, learners will be able to	
	1. Develop the energiastic structure for different targets	
	1. Develop the organization structure for different types of	
	organizations	
	2. Bring about change in the organizations when needed for	
	organizational development	
Content Outline	 Foundation of organisational structure. 	
	Organisational culture	
	 Organisational change. 	
	 Organisational Development. 	

Marks 50 (Internal)

- 3. **Assignment 1:** To study different organizational structures
- 4. **Classroom activity 1:** To prepare organizational structure for different types of organizations
- 5. **Presentation 1:** Individual presentations on personality, perception, values and attitudes, motivation and leadership
- 6. **Presentation 2:** Team presentation on communication, power & Politics and Conflicts & Negotiations
- 7. **Classroom Activity 2:** Quiz on Organization Culture and Organization Change

References

- 1. K. Ashwathappa (2002) Organisational Behaviour, Mumbai, Himalaya Publishing House.
- 2. Stephen P. Robbins (2001): Organisational Behaviour concepts, controversies and applications New Delhi, Prentice Hall of India.
- 3. Fred Luthons (1998) Organisational Behaviour, Boston, McGrawhill Publishing Co.
- 4. Mcshane, S.L. & Glinow, M.A. (2000): Organisational Behaviour New Delhi, McGraw-hill Publishing Co. Ltd.
- 5. Singh, M. (2001), Organisational Behaviour New Delhi, Deep and Deep Publications Pvt. Ltd.

- 6. Newstom, J.W. & Devis, K. (2000): Organisational Behaviour New Delhi, McGrawhill Publishing Co. Ltd.
- 7. Gupta, R. (2001) Organisational Behaviour New Delhi, KitabMahal.
- 8. Cook, C.W. & Hunaskar, P.L. (2001): Management and Organisational Behaviour Boston, McGraw-hill Irwin.
- 9. Kumar, M. & Mittal R. (2001) Organisational Behaviour New Delhi, Anmol Publication Pvt. Ltd.
- 10. Chandan, J.S. (2001): Organisational Behaviour New Delhi, Vikas Publishing House Pvt. Ltd.
- 11. Pettinger, R. (1996): Organisational Behaviour London, Macmillan Press Ltd.
- 12. Hersey, P. & Blanchard, K. (1996): Management of Organisational Behaviour New Delhi, Prentice Hall India.

2.6 OJT

Course Title	Internship – Interior Design Firm/Organization
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	 Design their own CV to apply in any Interior Design firm/organization/industry, etc.
	2. Communicate confidently the technical skills as an individual and as a team member in small and large projects
	3. Apply the knowledge from internship manual for Professional ethics at workplace
	4. Gain competency in soft skills and technical skills in managing the clients, projects, and finances efficiently
	 Prioritize the time management when planning as per the expectation of organization and clientele
Learning Outcomes	After learning the module, learners will be able to
	1. Carryout all responsibilities at work place efficiently
	 Apply professionalism at work and with subordinates, seniors, juniors, and employer
	Pace the projects keeping in mind time management and financial implications
	4. Apply knowledge gained to design something new with creative ideas
Content Outline	 Structured Internship Manual covering the learning outcomes Aspects covered in manual-time management, punctuality, dress code, work ethics, application of soft skills and technical skills, creativity, etc.
	 Period for internship – 4 credits – 120 hours of practical working in firms/industries/organizations, etc.
	 Weekly report on learning during the week, site visits, any issues, and concerns, etc.
	 Mid-term report from trainer/supervisor for progress at internship
	 Final report at the end of the internship programme. Final Evaluation of internship - viva voce in presence of
	external examiner - Presentation of internship report by the student

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

- Training session on How to make effective CV
 Classroom activity 1: To prepare CV for applying for internship programme in organizations/firms
- 2. Training students for soft skill set for development of soft skills needed at workplace **Classroom Activity 2:** Demonstrate Soft skill by role play
- 3. Training for Ethics and Professionalism at Workplace

Classroom Activity 3: Professional Practices in role play

- 4. Training on Framing Learning Objectives for Internship
- 5. **Classroom Activity 4:** Students write what they expect from firms/organizations in the form of learning objects

External

- 1. Weekly Reports of Internship with achievement of learning outcomes every week
- 2. Mid-Term Evaluation Report from Supervisor/employer/trainer
- 3. Final Report submission
- 4. External Final Exam Presentation of report to external examiner and Viva Voce.

Total Marks for Internship – 100 Marks Internal Marks – 50 External Marks (Jointly by Internal & External Examiner) - 50