

S.M.PATEL COLLEGE OF HOME SCIENCE
(AN AUTONOMOUS INSTITUTE AFFILIATED WITH SARDAR PATEL UNIVERSITY)
Master Programme (Two Years) Self-Finance
(Under NEP 2020) Semester-III
Structure with effect from: 2024-2025

M.Sc in Resource Management and Design Application

Sr. No.	Core / Elective	Course No	Title	T/P	Credits Per Week	Contact hrs/ week	Exam Duration in hrs	Marks		
								Internal	External	Total
Core Course										
1	C	PHA03CRMD01	Family Economics and Accountancy	T	4	4	2 ½	50/20	50/20	100/40
2	C	PHA03CRMD02	Residential and commercial space designing	T	2	2	1 ½	25/10	25/10	50/20
3	C	PHA03CRMD03	Residential and commercial space designing	P	2	4	2	25/10	25/10	50/20
4	C	PHA03CRMD04	Dissertation	P	4	8	-	100/40	-	100/40
5	C	PHA03CRMD05	Internship	P	6	12	-	150/60	-	150/60
Elective Course										
6	E	PHA03ESCW01	Scientific writing	T	2	2	1 ½	25/10	25/10	50/20
7	E	PHA03EPRM02	Project Management	T	2	2	1 ½	25/10	25/10	50/20
8	E	PHA03EPHE03	Public Health Environment	T	2	2	1 ½	25/10	25/10	50/20
			Total		20	32				

Note : 1) : C- Core course, E- Elective course



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M.Sc in Resource Management and Design Application

Course Code	PHA03CRMD01	Title of the Course	Theory: Family Economics & Accountancy
Total Credits of the Course	02	Hours per Week	04

Course Objectives:	1. To gain knowledge about principles and techniques of accounting information for decision-making and control 2. To develop an appreciation for financial management in family living. 3. To provide students with basic knowledge regarding multiple aspects of accounting and financials. 4. Acquire skills in the use of tools, techniques and processes of financial management in the realm of financial decision-making
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Course Content		
Unit	Description	Weightage* (%)
1.	Income and Financial Management a) Objectives, nature, and scope of financial management b) Concept, nature, and scope of financial accounting c) Financial accounting – generally accepted accounting principles (GAAP) d) Accounting process and system- journal, ledger& trial balance e) Cost accounting and Management accounting	25%
2..	Financial Statements & tools of financial analysis a) Nature, functions & limitations of various financial statements b) Preparations of Profit and Loss accounts and Balance sheets c) Long-term Assets and Depreciation / Inventory d) Tools of financial analysis: Fund flow analysis and Cash flow analysis, Ratio analysis, Cost volume profit (break-even) analysis, Analysis of operating and financial leverages	25%

3.	Cost accounting a) Costing fundamentals: Cost concepts & classifications, Materials, Direct Labour and Direct Expenses, Overheads general, Overheads Distributions b) Costing for Specific Industries: Single or Output costing, Job, Batch and Contract costing, Process Costing, Operating costing, and depreciation cost	25%
4.	Financial planning a) Raising long-term funds: Planning capital structure, Internal financing, Issue of bonus shares, Rights Shares, Rights Debentures, Capital Budgeting, Cost of Capital b) Managing short-term finance: Management of Working capital, Management of Inventories	25%

Teaching-Learning Methodology	Participatory lectures with active learning, reflective learning, written exercises, collaborative learning, problem-solving, lectures(black-board and chalk), tutorials, library use, and e-learning through videos coupled with a market survey, field-based learning, Assignments
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written Examination (As per R.AUG.HSC. -4)	25%
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance	25%
3.	Semester End Examination (As per R.AUG.HSC. -7)	50%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Understand the importance of wise use of money as a resource.
2.	Develop an appreciation of the role of financial management in family living.
3.	Understand the role of the consumer in the market.
4.	Become aware of marketing conditions, rights, and responsibilities of consumers.

5.	Recognize the problem while purchasing goods/services from the market.
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Suggested References:

Sr. No.	References
1.	Kimmel. P.D, (2000). Financial Accounting: Tools for Business Decisions Making. New York: John Wiley & Sons
2.	Ogle, N., Srinivasan, K., Varghese, M.A. (1996). <i>Home Management</i> , New Delhi: New Age International House.
3.	The Educational Planning Group Delhi. (1993). <i>Home Management</i> . New Delhi: Arya Publishing House.
4.	Shukul, M. and Gandotra, V. (2006). <i>Home Management and Family Finance</i> . New Delhi: Dominant Publishers and Distributors.
5.	Sawhney, H. K., and Mital, M. (2007), <i>Family Finance and Consumer Studies</i> . New Delhi: Elite Publishing House Pvt. Ltd.
6.	Tulsian. P. C. (2008). Financial Accounting. Pearson Education Narayanswami.
7.	Maheshwari S.N. & Maheshwari S. K. (2007). An Introduction to Accountancy. Vikas, 9th Edition.
8.	Singh, S. (2023). <i>Family finance and consumption economics</i> . Himanshu Publication, Udaipur (India)
9.	Singh, S., Rao, R., & Vyas, R. (2025). <i>Consumer rise: Information, safety, and education</i> . Noble Science Press.



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Course Code	PHA03CRMD02	Title of the Course	Theory-Residential and Commercial Space Design
Total Credits of the Course	02	Hours per Week	02

Course Objectives:	1. To acquire knowledge of Materials and Finishes used in different types of Residential and Commercial Spaces. 2. To develop skills in designing the requirement of Residential Spaces. 3. To develop skills in designing the requirement of Commercial Spaces. 4. To develop skills in preparing Technical Working Drawings of Residential and Commercial spaces
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Course Content		
Unit	Description	Weightage*(%)
1.	a) Human Factors Considerations in Space Designing i. Anthropometrics & Human needs b) Design Considerations for various activities and space needs i. Eating Area ii. Health Care iii. Recreational Area iv. Shopping Area v. Beauty Treatment vi. Residential Activities Area c) Ventilation and indoor air quality d) Noise control methods	25
2.	Building Specification	25

	a) Building specification for residential and commercial space design as per NCB. b) Green building and audit: LEED, GRIHA and BREEAM rating system. c) Specific requirements for designing retail spaces- offices & showrooms d) Space planning for selected events - exhibitions and expos, seminars and conferences areas. e) Design parameters for creating universal spaces with focus on inclusivity (people with special needs, elderly, infants and children)	
3.	Space Designing for Interior Services a) Lighting design for different spaces b) False ceilings: construction techniques c) Acoustics: Types of acoustic design and materials, sound transmission, reverberation and propagation d) Air conditioning : duct design and layout plan e) Fire safety: Types, Evacuation plans f) Types of security services in buildings	25
4	Project Estimation and management Clients need , desire and affordability assessment a) Specification of materials b) Estimating and budgeting : Types of cost estimation and preparing estimates and budget c) Site management- Sourcing / outsourcing d) Record keeping and filing	25

Teaching Assignments, Learning	Lecture, PowerPoint Presentations, ICT enabled Teaching, Individual/group projects, Group discussions, Guest speakers, Quizzes Methodology, blackboard and chalk.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written Examination (As per R.AUG.HSC. -4)	25%
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance	25%
3.	Semester End Examination (As per R.AUG.HSC. -7)	50%

Course Outcomes:	
Having completed this course, the learner will be able to	
1.	Comprehensive knowledge of materials, finishes, and construction techniques.
2.	Knowledge of human factors, ergonomics, and user experience.
3	Familiarity with relevant building codes, standards, and regulations.

Suggested References:	
Sr. No.	References
1.	Bhatt, P.D., Goenka S., (1990). Foundation of Art Design. Bombay: Lakhani Book Depot.
2.	Faulkner, R. and Faulkner, S. (1975). <i>Inside Today's Home</i> . New York: Rinehart
3.	Arora, S.P. & Bindra, S.P. (2013). A Text book of Building Construction. New Delhi: Dhanpat Rai Publications.
4.	Shukul, M., Patel, S., Veerkumar, V., & Trivedi, K. (2024). <i>Essential of research methodology in interior design</i> . Thomson Press.

Online Resources
https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=8x0nJkh/R0vHkX1U70Z/CQ==



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Course Code	PHA03CRMD03	Title of the Course	Practical: Residential and Commercial Space Designing
Total Credits of the Course	02	Hours per Week	04

Course Objectives:	1. To gain better understanding of interior enrichment. 2. To encourage creativity, innovation and exploratory thinking. 3. To impart knowledge on factors influencing planning of life space.
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Course Content		
Unit	Description	Weightage* (%)
1.	Visit a residential site or existing house. Analyze the site's dimensions, orientation, and natural light conditions. Identify potential challenges and opportunities for design.	10
2.	Create floor plans for a given residential space, considering factors like room sizes, traffic flow, and furniture placement.	10
3.	Develop multiple layout options to optimize space utilization and functionality and justify design decisions.	05
4.	Research different materials and finishes suitable for residential spaces (e.g., flooring, wall coverings, countertop).	10
5.	Create material boards to visualize colour palettes and textures. Consider factors like durability, maintenance, and budget when selecting materials.	10
6.	Professional presentation of the residential interior Project.	05
7.	Create floor plans for a commercial space, considering factors like circulation, zoning, and accessibility.	10

8.	Research different materials and finishes suitable for commercial spaces (e.g., flooring, wall coverings).	05
9.	Create material boards to visualize colour palettes and textures. Consider factors like durability, maintenance, and budget when selecting materials.	10
10.	Develop multiple layout options to optimize space utilization and functionality to justify design decisions.	10
11.	Estimation of cost of construction for residential and commercial projects	05
12.	Professional presentation of the commercial Interior Project. (including	10

Teaching-Learning Methodology	Practical Implementation, Scrapbook, Demonstration, Blended Learning, Workshops, DIY activities.
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Evaluation Pattern		
Sr.No	Details of the Evaluation	Weightage
1.	Internal Practical Examination (As per CBCS R.6.8.3)	25%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	25%
3.	Semester End Examination	50%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Knowledge of human factors, ergonomics, and user experience.
2.	Comprehensive knowledge of materials, finishes, and construction techniques
3.	Familiarity with relevant building codes, standards, and regulations.

Suggested References:

Sr.No.	References
1.	Bhatt, P.D., Goenka S., (1990). <i>Foundation of Art Design</i> . Bombay: Lakhani Book Depot.
2.	Faulkner, R. and Faulkner, S. (1975). <i>Inside Today's Home</i> . New York: Rinehart



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Course Code	PHA03CRMD04	Title of the Course	Practical-Dissertation
Total Credits of the Course	04	Hours per Week	08

Course Objectives	The students will be able to: 1. To develop skills to collect review of literature in their selected field. 2. To plan and design a research proposal specifying objectives, rationale and methodology etc.
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	Description
1.	Review latest literature available to understand problems/scenario in Resource Management and Design Application.
2.	Identify strategies, tools, or knowledge that can enhance the quality, and effectiveness of Resource Management and Design Application
3.	Formulate a research plan and develop tool and standardize, pre-test or validate tools and techniques.
4.	Presentation of Research plan having following details at the end of the semester- (a) Title (b) Review of literature (c) Rationale of study (d) Hypothesis (e) Research design (f) Timeline of study

Teaching-Learning Methodology	The course will be delivered through a combination of active learning strategies. These will include: Discussion, lecture etc
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Research Proposal and Presentation	100%

Course Outcomes:

Having completed this course, the learner will be able to

Sr. No.	
1.	The students will develop skills to evaluate the information in the field of current Resource Management and Design Application
2.	The students will be able to design a research plan based on research techniques.
3.	The students will be able to plan independent research programme.

On-line resources to be used if available as reference material

On-line Resources

- ☐ American Association of Family & Consumer Sciences. (n.d.). *Journal of Family and Consumer Sciences (JFCS)*. Retrieved from <https://www.aafcs.org/resources/publications/journal>
- ☐ *International Journal of Home Science*. (n.d.). Retrieved from <http://www.homesciencejournal.com/>
- ☐ Elsevier. (n.d.). *Journal of Cleaner Production*. Retrieved from <https://www.sciencedirect.com/journal/journal-of-cleaner-production>
- ☐ Elsevier. (n.d.). *Resources, Conservation, and Recycling*. Retrieved from <https://www.journals.elsevier.com/resources-conservation-and-recycling>
- ☐ Elsevier. (n.d.). *Applied Ergonomics*. Retrieved from <https://www.sciencedirect.com/journal/applied-ergonomics>
- ☐ SAGE Publications. (n.d.). *Human Factors: The Journal of the Human Factors and Ergonomics Society*. Retrieved from <https://journals.sagepub.com/home/hfs>
- ☐ Taylor & Francis. (n.d.). *Critical Reviews in Food Science and Nutrition*. Retrieved from <https://www.tandfonline.com/journals/bfsn20>
- ☐ Springer. (n.d.). *Journal of Food Science and Technology*. Retrieved from <https://www.springer.com/journal/13197>
- ☐ SAGE Publications. (n.d.). *Research Methods in Social Sciences*. Retrieved from <https://journals.sagepub.com/home/mms>
- ☐ Taylor & Francis. (n.d.). *International Journal of Social Research Methodology*. Retrieved from <https://www.tandfonline.com/toc/tsrm20/current>
- ☐ Oxford University Press. (n.d.). *Journal of Consumer Research*. Retrieved from <https://academic.oup.com/jcr>



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Course Code	PHA03CRMD05	Title of the Course	Theory: Internship
Total Credits of the Course	06	Hours per Week	12

Course Objectives:	1. To provide practical exposure to real-world scenarios in Resource Management and Design Application. 2. To bridge the gap between academic learning and professional practice by engaging with industry or institutional environments. 3. To develop critical skills such as project management, teamwork, and problem-solving professionally. 4. To enable students to apply theoretical knowledge to practical challenges in diverse resource management and design domains. 5. To enhance communication, networking, and professional ethics through hands-on experience.
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Course Content		
Unit	Description	Weightage* (%)
1.	Pre-Internship Preparation (1 Week): a) Understanding the objectives and expectations of the internship program. b) Preparation of an Internship Proposal, including learning goals and desired outcomes. c) Orientation on professional ethics, organizational culture, and communication strategies.	10
2..	On-Site Internship (4 Weeks): a) Practical exposure to organizational functions, workflows, and processes. b) Working under supervision on tasks/projects related to Resource Management and Design Application. c) Active participation in meetings, planning sessions, or design activities. d) Regular documentation of daily activities and learnings in a logbook.	50

3.	Post-Internship Reflection and Reporting (1 Week): Submission of a detailed Internship Report, including: a) Objectives achieved. b) Description of tasks and responsibilities undertaken. c) Challenges faced and how they were addressed d) Learnings and recommendations.	20
4.	Presentation and viva-voce before a faculty panel to share key experiences and insights.	20

Teaching-Learning Methodology	Participatory lectures with active learning, reflective learning, written exercises, collaborative learning, problem-solving, lectures(black-board and chalk), tutorials, library use, and e-learning through videos coupled with a market survey, field-based learning, Assignments
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Report Writing	40%
2.	Internal Viva -Voce	10%
3.	External (Attendance, Performance, Punctuality, Adhering to hours by the External Supervisor)	50%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Demonstrate the ability to apply theoretical concepts in practical and professional settings.
2.	Gain insights into the operational aspects of organizations in the field of Resource Management and Design Application.
3.	Build skills in project execution, stakeholder communication, and teamwork.
4.	Reflect on the challenges and opportunities encountered during the internship and suggest actionable solutions.
5.	Prepare detailed reports and present their experiences effectively to peers and faculty.

Suggested References:

Sr. No.	References
1.	Kimmel. P.D, (2000). Financial Accounting: Tools for Business Decisions Making. New York: John Wiley & Sons
2.	Ogle, N., Srinivasan, K., Varghese, M.A. (1996). <i>Home Management</i> , New Delhi: New Age International House.
3.	The Educational Planning Group Delhi. (1993). <i>Home Management</i> . New Delhi: Arya Publishing House.
4.	Shukul, M. and Gandotra, V. (2006). <i>Home Management and Family Finance</i> . New Delhi: Dominant Publishers and Distributors.
5.	Sawhney, H. K., and Mital, M. (2007), <i>Family Finance and Consumer Studies</i> . New Delhi: Elite Publishing House Pvt. Ltd.
6.	Tulsian. P. C. (2008). Financial Accounting. Pearson Education Narayanswami.
7.	Maheshwari S.N. & Maheshwari S. K. (2007). An Introduction to Accountancy. Vikas, 9th Edition.



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Course Code	PHA03ESCW01	Title of the Course	Theory –Scientific Writing
Total Credits of the Course	02	Hours per Week	02

Course Objectives	1. To equip students with the skills for writing scientific documents, including research papers proposal theses and reports. 2. To familiarize students with the conventions and ethics of scientific communication. 3. To enhance understanding of the structure and elements of scientific writing for effective dissemination of the knowledge. 4. To develop critical analysis, editing and formatting skills for professional documents.
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Unit	Description	Weightage%
1	Fundamentals of Scientific Writing (a) Importance and scope of scientific writing (b) Types of scientific documents: Research papers, Review papers, thesis, dissertations, reports, popular articles, and Research proposals. (c) Key elements of scientific writing: Clarity, coherence, conciseness, and precision. (d) Understanding target audience and purpose.	25
2	Structure and Content Development (a) Components of scientific documents: Title, abstract, introduction, methods, results, discussion and references. (b) Developing logical flow: Linking ideas and paragraphs. (c) Use of visuals: tables, graphs and figures. (d) Writing style: Passive vs Active voice, tense usage.	25
3	Research Integrity and Ethics (a) Understanding Plagiarism and its implication (b) Citations styles (c) Ethics in publishing: authorship, conflict of interest and peer review process.	25
4	Advanced Writing Skills and Publication Process (a) Writing proposals for funding agencies and ethical clearance. (b) Preparing manuscripts for submission to journals (c) Communicating with editors and responding to reviewers' comments (d) Open access publishing and predatory journals: identifying credible platforms.	25

Teaching-Learning Methodology	The course will be delivered through a combination of active learning strategies. These will include: Discussion, lecture etc.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written Examination (As per R.AUG.HSC. -4)	25%
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance	25%
3.	Semester End Examination (As per R.AUG.HSC. -7)	50%

References	
Sr. No	References
1.	Day, R.A., & Gastel, B <i>how to write and publish scientific paper</i> . Cambridge University Press.
2.	Booth, W.C., Colomb, G.G., & Williams, J.M. <i>The craft of Research</i> . University of Chicago press.

Course Outcomes: Having completed this course, the learner will be able to	
Sr. No.	After completing this course, students will be able :
1.	Write structured and concise scientific documents following academic and professional standards.
2.	Demonstrate ethical consideration in publishing and citing sources.
3.	Develop research proposal and utilize advance tools and software for editing, references and plagiarism check

On-line resources to be used if available as reference material
On-line Resources
Relevant entries on Wikipedia and Encyclopaedia Britannica
