

MAHARSHI DAYANAND UNIVERSITY ROHTAK
DEPARTMENT OF COMMERCE

Scheme of Examinations for M.phil/ Ph. D. Course Work (Commerce)
(w.e.f. the Academic Session 2020-2021)

Program Outcomes (PO):

PO1. Scholars would be able to demonstrate the ability to acquire skills to perform independent advanced research.

PO2. Demonstrate ability to identify and seek out resources and information; apply these to guide research plan development.

PO3. Demonstrate the ability to master and/or innovate research methodologies, and techniques.

PO4. Scholars would be able to make an original and substantial contribution to the knowledge.

PO5. Demonstrate independent thinking and creativity.

Program Specific Outcomes (PSO):

PSO1.To educate the students about how to select a research topic.

PSO2.To instruct the students about how to write a literature review and to inform the students about in-depth understanding of Research Methodology as well as to facilitate them to carry out research in a systematic manner.

PSO3. To educate the students about importance of quantitative and qualitative techniques used in research.

PSO4. To develop and execute original research plan(s).

PSO5. Ability to produce publishable research articles/documents/reports in the field of public sector and corporate world. Students would be successful entrepreneurs as well.

**Scheme of Examinations for M.Phil/ Ph. D. Course Work in Commerce
(w.e.f. the Academic Session 2020-2021)**

The M.Phil (Commerce) will be one year course comprising two semesters. There will be four compulsory papers in first Semester, two compulsory papers and a Dissertation in 2nd semester.

The first semester of M.Phil shall be common to Ph D Course Work in Commerce.

SEMESTER-I

Paper Code	Title of the Paper	Max. Marks and Credits				
		Theory Marks	Int. Ass. Marks	Total Marks	Hours/Week	Credits
20COM11MPC1	Research Methodology	80	20	100	4	4
20MPCC1	Research and Publication Ethics	40	10	50	2	2
20COM11MPC3	Quantitative Techniques	80	20	100	4	4
20COM11MPC4	Financial Econometrics	80	20	100	4	4
Total				350		14

SEMESTER-II

Paper Code	Title of the Paper	Max. Marks and Credits				
		Theory Marks	Int. Ass. Marks	Total Marks	Hours/Week	Credits
20COM12MPC1	Emerging Researchable Areas in Accounting and Finance	80	20	100	4	4
20COM12MPC2	Researchable Issues in Functional Areas of Management	40	10	50	2	2
20COM12MPC3	Dissertation (Compulsory)	150 (Evaluation)	50 (Viva)	200		8
Total				350		14

Total credits required for M.Phil Programme = 14 (Semester I) + 14 (Semester II) = 28

Credits Total credits required for Ph.D. Programme = 14 Credits (Semester I)

Semester - I

Paper Code 20COM11MPC1 Research Methodology

Marks of Theory: 80
Internal Assessment: 20
Credits: 4
Time: 3hours

Course Objectives:

1. Students would understand a general definition of research design.
2. Students would know the importance of academic research.
3. Students would be able to identify the overall process of designing a research study from its inception to its report.
4. Students would be familiar with ethical issues in academic research, including those issues that arise in using quantitative and qualitative research.
5. Students would know the primary characteristics of quantitative research and qualitative research.

Course Outcomes: Students should be able to

1. Understand Exploratory (or Formulative) Research Studies, Hypothesis Testing, Sampling Techniques or Methods: Probability Sampling, Non-probability Sampling
2. Identify and discuss the complex issues inherent in selecting a research problem and hypothesis formulation.
3. Select an appropriate research design.
4. Write a research proposal, report and thesis.
5. Study about Precautions in Interpretation, Findings, Graphic Presentation, Diagrams, Pictures and Maps, Tabular Presentation, Difficulties in Presentation, Report Writing etc.

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

Unit – I

Research: Meaning, characteristics, types and significance and relevance of research in business; characteristics of good research; identification and formulation of research problems; setting research objectives.

Hypothesis: meaning, types, need, sources and process of setting hypothesis; importance and format of review of literature.

Meta analysis: elementary knowledge with software.

Unit – II

Research Design: Meaning, features, need for research design, component of research design: exploratory, descriptive & causal studies;
Population & sample; meaning and types of sampling; sample size; sampling error; the research proposal.

Unit – III

Measurement & scaling techniques; Types of scale; criteria for good measurement; attitude measurement— Likert's scale, Semantic Differential scale, Thurston-equal appearing interval scale, Multi-Dimensional scaling;
Collection of Data: meaning and types of data; data collection methods - observation, survey and interview; questionnaire design; reliability and validity of questionnaire. Basic operational knowledge of CMIE-PROWESS, Bloomberg or any other relevant software.

Unit – IV

Editing, coding, classification and tabulation of data; Methods of data presentation; interpretation of results- forms, prerequisites, precautions, conclusions and generalizations, sources of errors. Report writing—purpose, steps and format of research report; final presentation of the research report; idea of referencing, bibliography, footnotes and end notes; Basic knowledge of Mendeley.
Types of articles/types of academic papers; Original research papers/Analytical papers, Review Article, Clinical case study, Persuasive, Critical, Descriptive/Conceptual.

References:

1. Cooper, D. R., & Schindler, P. S. (2014). *Business research methods*. McGraw-Hill.
2. K N Krishnaswamy, Appa Iyer Sivakumar and M. Kathirajan, *Management Research Methodology*, New Delhi : Pearson
3. K.V.Rao, *Research Methodology in Commerce and Management*, New Delhi : Sterling
4. Wilkinson, T. S., & Laldas, D. K. (2010). *Methodology & Techniques Of Social Research*. Himalaya Publishing House.
5. Kothari, C. R. (2017). *Research Methodology methods and techniques* second edition.

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**Semester - I
Paper Code 20COM11MPC3
Quantitative Techniques**

Marks of Theory: 80
Internal Assessment: 20
Credits: 4
Time: 3hours

Course Objectives:

1. Explain and discuss the researcher's work (model).
2. Elucidate basic statistical concepts and tests used in academic research.
3. Demonstrate their competence and confidence in using inferential statistics in general and to the use of significance testing in particular.
4. Understand and master the handling of data and employ proper analyses.
5. Use output derived from statistical procedures and converts such output to understand statement.

Course Outcomes: Students should be able to

1. Understand the meaning, assumptions and application of various tools and techniques.
2. Select an appropriate statistical technique.
3. Understand bivariate and multivariate data analysis.
4. Use different statistical software like SPSS, EViews etc.
5. Analyze and interpret the results for their thesis/publications of a research article.

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

Unit – I

Descriptive and Inferential Statistics, Statistical tools for Data analysis-Univariate, Bi-Variate & Multivariate analysis, Hypothesis testing, parametric tests: t-test, z-test and F-test, Significance of non-parametric tests (Chi-square test, Kruskal– Wallis H test, Mann-Whitney U-test).

Unit – II

Analysis of Variance (ANOVA), Analysis of Covariance (ANCOVA), Multivariate analysis of variance (MANOVA), Multivariate analysis of covariance (MANCOVA).

Unit – III

Correlation Analysis, Simple Linear Regression Analysis, Multiple Linear Regression Analysis, Regression with Dummy Variables, Logistic Regression.

Unit – IV

Discriminant Analysis, Exploratory and Confirmatory Factor Analysis, Structural

Equation Modeling, Path Analysis.

Note: Students are required to use statistical software's like SPSS, AMOS, EViews, RStudio, Stata, Minitab etc. while carry out multivariate techniques.

References:

1. Malhotra, N. K., & Dash, S. (2016). *Marketing research: An applied orientation*. Pearson.
2. Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. (2006). *Multivariate Data Analysis*: Pearson Education. *New Jersey: Hoboken*.
3. Gupta, S. P., & Gupta, M. P. (2007). *Business Statistics* Sultan Chand and Sons. *New Delhi*.
4. Chandan, J. S. (2009). *Statistics for business and economics*. Vikas Publishing House.
5. Gujarati, D. N. (2009). *Basic econometrics*. Tata McGraw-Hill Education.

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Semester - I

Paper Code 20COM11MPC4

Financial Econometrics

Marks of Theory: 80
Internal Assessment: 20
Credits: 4
Time: 3hours

Course Objectives:

1. To learn the basic characteristics of time series data
2. To learn the basic characteristics of panel data
3. Provides a comprehensive knowledge to do empirical work with financial data and measuring volatility in financial time series
4. To learn econometric techniques for time series and panel data
5. To learn econometric modeling with real world data and do economic forecasting

Course Outcomes: Students should be able to

1. Understand basics of econometric modeling.
2. Understand Time Series Econometrics.
3. Understand about the Panel data.
4. Conduct empirical applications of financial and economic theory based on real financial data using statistical/econometric techniques.
5. Use Panel data for financial modeling.

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

Unit – I

Stochastic Processes , Unit Root Stochastic Process, Non-stationary time series ,Tests of Stationarity, Unit Root Test, Transforming Nonstationary Time Series ,Structural Breaks in Time Series

Unit – II

Vector autoregressive and error correction models, Autoregressive Distributed Lag (ARDL) models, Cointegration, Causality in time series, Impulse response analysis

Unit – III

Introduction, Properties, and Estimation: ARMA models, ARIMA models, ARCH and GARCH models

Unit – IV

Introduction to Panel Data Models: Pooled OLS, Fixed Effects Model, Random Effects

Model, Dynamic Panels, Generalized Method of Moments (GMM) Estimation in Dynamic Panels, Arellano-Bond estimator approach to Dynamic Panel Models, Unbalanced Panel Data Models.

Note: Students are required to use statistical software's like, MS EXCEL, EViews, RStudio, Stata, Minitab etc. while carry out time series, panel and cross-sectional analyses.

References:

1. Gujarati, D. N. (2009). *Basic econometrics*. Tata McGraw-Hill Education.
2. Brooks, C. (2019). *Introductory econometrics for finance*. Cambridge university press.
3. Wooldridge, J. M. (2010). *Econometric analysis of cross section and panel data*. MIT press.
4. Arellano, M. (2003). *Panel data econometrics*. Oxford university press.
5. Pesaran, M. H. (2015). *Time series and panel data econometrics*. Oxford University Press

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Semester - I

Paper Code 20MPCC1

Research and Publication Ethics

Marks of Theory: 40
Internal Assessment: 10
Credits: 2
Time: 3hours

Course Objectives:

1. To aware the students about basics of philosophy of science and ethics
2. To educate the students about research integrity and publication ethics.
3. To vigilant the students about research misconduct and predatory publications.
- 4.To inform the students about indexing and citation databases, open access publications
5. To inform the students about research metrics (citations, h-index, Impact Factor, etc.) and plagiarism tools.

Course Outcomes: Students should be able to

1. Understand about the publication ethics and publication misconducts.
2. Aware about falsification, fabrication, and plagiarism.
3. Use Citation databases and understand about impact factor of journal.
4. Use plagiarism software like Turnitin.
5. Identify Predatory publishers and journals.

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of one mark each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 8 marks each.

Unit – I

Introduction to philosophy: definition, nature and scope, concept, Branches; Ethics: definition, moral philosophy, nature of moral judgments and reactions; Ethics with respect to science and research.

Unit – II

Intellectual honesty and research integrity; Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP); Redundant publications: duplicate and overlapping publications, Salami Slicing; Selective reporting and misrepresentation of data.

Unit – III

Citation databases: Web of Science, Scopus; Open access publications and initiatives; Publication ethics: definition, introduction and importance; Best practices / standards

setting initiatives and guidelines: COPE, WAME, etc.

Unit – IV

Conflicts of interest; Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa; Violation of publication ethics, authorship and contributorship; Identification of publication misconduct, complaints and appeals ; Predatory publishers and journals.

Note: The internal assessment will be based on the discussion/presentation/class participation/quizzes/assignments from the topics: Open Access Publishing, SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies, Journal finder (like JANE, Elsevier Journal Finder), Publication Misconduct, Databases (Web of Science, Scopus etc.), Impact Factor of journal as per Journal Citation Report, SNIP, SIR, IPP, Cite Score , Metrics: h-index, g index, i10 index, altmetrics, Use of plagiarism software like Turnitin, Urkund and other open source software tools etc.

References:

1. Graf, C., Wager, E., Bowman, A., Fiack, S., Scott-Lichter, D., & Robinson, A. (2007). Best practice guidelines on publication ethics: a publisher's perspective. *International journal of clinical practice*, 61, 1-26.
2. Wager, E. (2012). The Committee on Publication Ethics (COPE): objectives and achievements 1997–2012. *La Presse Medicale*, 41(9), 861-866.
3. Shamoo, A. E., & Resnik, D. B. (2009). *Responsible conduct of research*. Oxford University Press.
4. Resnik, D. B., Patrone, D., & Peddada, S. (2010). Research misconduct policies of social science journals and impact factor. *Accountability in research*, 17(2), 79-84.
5. Resnik, D. B. (2011). What is ethics in research & why is it important. *National Institute of Environmental health sciences*, 1(10), 49-70.

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Semester - II
Paper Code 20COM12MPC1
Emerging Research Areas in Accounting and Finance

Marks of Theory: 80
Internal Assessment: 20
Credits: 4
Time: 3hours

Course Objectives:

1. To upgrade and update the knowledge of the learners regarding contemporary trends in Accounting and Finance.
2. To promote right thinking about emerging trends and problems related with financial markets
3. To understand the profile and contemporary environment of banking and financial sector.
4. To help the learnt to have right understanding about BASEL and GST.

Course Outcomes:

1. Learn on Issues and Challenges of Accounting Techniques – Value added, Social, Inflation, Human Resource, Green and Environmental accounting, reporting and disclosure.
2. Knowledge about Financial Distress and Investment Environment
3. Learn about national and international financial markets
4. Learn on Issues of banking Scams in banking sector,.

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

Unit – I

Issues and Challenges; Accounting Techniques – Value added, Social, Inflation, Human Resource, Green and Environmental accounting, reporting and disclosure i.e. Indian IAS, IFRS etc, Intellectual capital reporting.

Unit - II

Financial Distress, Predictions of Financial Distress. Understanding the investment environment, sources of investment information, approaches of security analysis, market indicators, security price movements, Derivatives.

Unit - III

National and international financial markets and their instruments for raising finance e.g., Sovereign/National debt, ADR, GDR, FDI etc., Forex market, Credit rating agencies, Behavioral finance.

Unit - IV

Banking sector and its associated aspects, Merger of Public Sector Banks in India, Digitalization of banks, Banking Scams in India, Bancassurance, History of BASEL, BASEL-I, II, III Norms, Pillars of BASEL 3, Regulatory elements of BASEL 3, Difference between BASEL 3 and 4. National and international factors affecting Indian Banking system. Recent Trends in Insurance sector- Privatization, FDI, Taxation Cost and Role of IRDA.
GST- Issues and Challenges.

References:

1. R.P.Rustogi (2008). *Financial Analysis & Financial Management*. S. Chand & Sons, New Delhi
2. Vasant Desai (2009). *Financial Markets & Financial Services*. Himalaya Publishing House
3. Vyayaragavan Iyengar (2007). *Introduction to Banking*. Excel Books.
4. Nitin Bhasin (2010). *Financial Institutions and Financial Markets in India – Functioning and Reforms*. New Century Publications, New Delhi

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Semester - II
Paper Code 20COM12MPC2 Researchable
Issues in Functional Areas of Management

Marks of Theory: 40
Internal Assessment: 10
Credits: 2
Time: 3hours

Course Objectives:

1. To help the learnt to have right understanding of concept of research & its application in business
2. Creating awareness regarding functional areas of management and Marketing
3. To study the contemporary issues related with business Human resource management
4. Improving analytical skills with respect to customer relationship management.

Course Outcomes: Students should be able to

1. Learn on latest issues & trends in researches in marketing.
2. Understand about the emerging areas like green marketing, neuro marketing, rural marketing, agricultural marketing etc.
3. Understand about concept of Customer Relationship Management
4. Learn on Issues and challenges in Human Resource Management, Outsourcing, strategic knowledge management, talent management, strategic for talent acquisition, engagement and retention

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of one mark each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 8 marks each.

Unit – I

Emerging areas in Marketing: Green marketing, Neuro marketing, Nonprofit marketing, impulsive marketing, Rural Marketing, Agricultural Marketing, Social Marketing, Bank Marketing, Insurance Marketing, Healthcare Marketing, Relationship Marketing, E-Marketing, and Political Marketing.

Unit – II

Customer Relationship Management, Qualitative Measurement Methods, Quantitative Measurement Methods, Calculating Relationship Indices, Customer Relationship Survey Design, Relationships in Marketing- Relationship Concepts- Relationship Driver, Lasting Relationships.

Unit – III

Strategic Human Resource Management, Managing Employee Separation, Employee Empowerment, Human Resource Development, HRD Function and their linkages to Business Goals, Strategic Approaches to industrial relations.

Issues in Employee Privacy; Work Life Balance; Stress Management; and Virtual Learning Organization; Human inventory.

Unit – IV

Current Challenges in Outsourcing, strategic knowledge management, talent management, strategies for talent acquisition, engagement and retention. Industrial Psychology.

References:

1. Saxena Rajan (2010). *Marketing Management*. Tata McGraw-Hill Education.
2. K. Aswathapa (2008). *Essential of Business Environment*. Himalaya Publishing House.
3. Schermerhorn. *Management*. Wiley India edition
4. C. B. Gupta (2008). *Business Environment*. S. Chand & Sons.
5. Gary Dessler. *Human Resource Management*. Prentice – Hall of India, New Delhi

Suggested Readings:

1. shodhganga.inflibnet.ac.in/
2. <https://books.google.co.in/>
3. En.bookfi.net
4. www.essays.se
5. <https://doaj.org/>
6. <https://www.elsevier.com/about/open-science/open-access/open-access-journals>
7. <http://www.oxfordjournals.org/en/oxford-open/index.html>
8. <http://www.wileyopenaccess.com/view/index.html>
9. <http://www.omicsonline.org/top-best-open-access-journals.php>
10. <http://pqdopen.proquest.com/search.html>
11. <http://www.open.ac.uk/library/library-resources/theses-dissertations>
12. <http://www.openthesis.org/>
13. <http://osc.universityofcalifornia.edu/scholarly-publishing/open-access/dissertationtheses/>
14. <https://openresearch-repository.anu.edu.au/handle/1885/3>
15. <http://library.stanford.edu/guides/find-dissertations-and-theses>
16. <http://www.lib.vt.edu/find/byformat/etds.html>
17. <http://ethos.bl.uk/Home.do?jsessionid=73388686D036B378792685F6D2951B9A>
18. <http://libguides.lib.msu.edu/dissertations/online>
19. <http://www.scholarius.com/>
20. <https://www.ucl.ac.uk/library/theses>
21. <https://researchworks.lib.washington.edu/etd-faq.html>
22. <http://www.phdontrack.net/share-and-publish/open-access/>
23. <http://www.library.ucla.edu/sel/grey-literature/dissertations>
24. <http://www.library.leiden.edu/help/how-to-find/how-to-find.html>
25. <https://www.imperial.ac.uk/admin-services/library/find-books-articles-and-more/these>