# NIRMALA MEMORIAL FOUNDATION COLLEGE OF COMMERCE AND SCIENCE

27 / 1 / 2023

## NOTICE

## First Year / Second Year BMS and B.Com (A&F) Semester I, II , III and IV Assignment Topics for Internal Assessment ATKT / Ex- Students Examination February, 2023

Students of BMS and B,Com ( A & F) who have remained absent / failed in the Internal Assessment at Semester I, II, III and /or IV and filled the ATKT examination form should upload and submit the Project Report in the respective subject on the link given below.

The submission should be done on **Friday, 17ᵗʰ February, 2023 at 9:45 am in block no. 509**
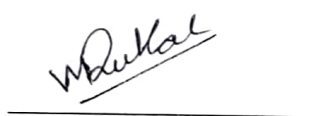
**Note : The project should be typed and have minimum of 10 and maximum of 12 pages.** In case of default, the candidate will be declared as "Fail" as there is **separate head of passing at the Theory Exam and Internal Assessment**. No Project Report will be accepted after the last date mentioned above.

The list of topics is put up separately on the website.

**(Dr. Poonam Kakkad)**          **(Mr. Vinay Dukale)**          **(Ms. Swiddle D'cunha)**

(Co-ordinator BMS/BAF)          (Examination Chairperson)          (I/C Principal)

# Nirmala Memorial Foundation College of Commerce and Science

## ASSIGNMENT TOPICS FOR INTERNAL ASSESSMENT ATKT AND EX-STUDNETS EXAMINATION, FEBRUARY, 2023

## FYBMS Semester I

| Foundations of Human Skills | Stress management techniques adopted by companies |
|---|---|
| Business Communication | Colours as non-verbal communication |
| Introduction to Financial Accounting | A study on International Financial Reporting Standards |
| Foundation Course I | A study on social inequalities |
| Business Law | Cheque, essentials and various kinds of crossing of cheque |
| Business Statistics | Q. 1) Find the median of the following distribution |

Q. 1) Find the median of the following distribution

| Marks obtained | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
|---|---|---|---|---|---|
| No of Students | 5 | 8 | 27 | 14 | 6 |

Q. 2) Compute the Quartile deviation and coefficient of quartile deviation for the following distribution.

| Weekly wages (in Rs) | 0 – 100 | 100 – 200 | 200 – 300 | 300 – 400 |
|---|---|---|---|---|
| No of workers | 12 | 18 | 35 | 42 |

| Weekly wages (in Rs) | 400 – 500 | 500 – 600 | 600 – 700 | 700 – 800 |
|---|---|---|---|---|
| No of workers | 50 | 45 | 20 | 8 |

Q. 3) Two friends A and B fire at a target. The odds in favour of A hitting the target are 2/3 and the odds against B hitting the target are 3/5. Find the probability that

   i.     the target is hit,
   ii.    both hit the target,
  iii.   both miss the target.

Q. 4. Explain The concept of data and its types.

Q. 5) Following is the pay off matrix corresponding to four states of nature S1, S2, S3, S4 and four courses of action A1, A2, A3, A4.

| State of nature | Course action | | | | Probability of state |
|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | |
| S1 | 50 | 400 | -50 | 0 | 0.15 |
| S2 | 300 | 0 | 200 | 300 | 0.45 |
| S3 | -150 | 100 | 0 | 300 | 0.25 |
| S4 | 50 | 0 | 100 | 0 | 0.15 |

Calculate expected pay off and find best course of action using EMV.

Calculate EOL for each course of action and find best course using EOL.

Q. 6) Wirte a short note on skeness and kurtosis.

Q. 7) Discuss the merits and demerits of Karl pearson's coefficient of correlation.

Q. 8) Write a short note on expected value of perfect information.

Q. 9) State the elements common to decision theory problems.

Q. 10) State the merits and demerits of mean.

| Business Economics I | A study on monopolistic and oligopolistic markets |
|---|---|

# FYBMS Semester II

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| **Principles of Management** | A study on 14 principles of management with a relevant case study |
| **Business Communication II** | Write a project on making of power point presentation |
| **Principles of Marketing** | A study on elements of marketing mix |
| **Foundation Course II** | A study on soil pollution |
| **Industrial Law** | A study on trade union act, 1926 |
| **Business Mathematics** | 1. A person has taken a loan of Rs. 40,000 from a money lender who charges a high interest at 10% per month. The person returns the loan in equal installments in 4 months. Find the EMI he has to pay and also prepare the amortization table of repayment.<br><br>2. In how many distinct ways can the letters of the word "CHEMISTRY" be arranged such that (i) there is no restriction (ii) the word begins with a vowel (iii) the letters T, R and Y are never together.<br><br>3. Obtain the technology matrix $A$ for the following two industry input-output model. Assuming $A$ to be constant, find the level of output when the final demand of both products is doubled. |

3. (continued)

| Industry | Consumption by industry | | Final demand | Total output |
|---|---|---|---|---|
| | X | Y | | |
| X | 40 | 50 | 110 | 200 |
| Y | 100 | 80 | 120 | 300 |
| Labour | 60 | 170 | | |

What is the labour input requirement of this output?

4. Solve the following system of equations using Cramer's rule.

$$2x + 3y + z = 9, \quad x + 2y + z = 6, \quad 3x + y + 2z = 8$$

| | |
|---|---|
| 5. | Find the inverse of $A = \begin{bmatrix} 1 & 2 & -1 \\ 4 & -1 & 8 \\ 6 & 3 & 5 \end{bmatrix}$ using adjoint method. |
| 6. | Examine the maxima and minima for function $f(x) = 2x^3 - 9x^2 + 12x + 5$. |
| 7. | Differentiate the following with respect to $x$.<br><br>(i) $y = x^3 logx - xe^x$     (ii) $y = (2x^3 - 3x^2 + 5x - 10)(5e^x - 2logx)$ |
| 8. | If the total cost of producing a product is given by $C(x) = 2x^3 - 5x^2 + 15x + 100$, find (i) average cost    (ii) marginal cost    (iii) actual cost of producing $11^{th}$ unit of product. |

9. Using Newton's forward interpolation formula, find $f(70)$.

| $x$ | 19 | 39 | 59 | 79 | 99 |
|---|---|---|---|---|---|
| $f(x)$ | 41 | 103 | 168 | 218 | 235 |

10. The population of a town in the decennial census is given below. Estimate the population for the year 1976, using Newton's backward interpolation formula.

| Year | 1951 | 1961 | 1971 | 1981 | 1991 |
|---|---|---|---|---|---|
| Population (in thousands) | 46 | 66 | 81 | 93 | 104 |

| Business Environment | A study on external environment |
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# Nirmala Memorial Foundation College of Commerce and Science
## ASSIGNMENT TOPICS FOR INTERNAL ASSESSMENT ATKT AND EX-
## STUDNETS EXAMINATION, FEBRUARY, 2023
## SYBMS SEM III

| Courses | Topic |
|---|---|
| Information Technology in Business management I | A study on Management Information System |
| Business Planning and Entrepreneurial Management | A study on problems faced by Women Entrepreneurs |
| Foundation Course III | A study on Global Warming |
| Accounting of Managerial Decisions | A study on ratios with any company as an example |
| Advertising | Discuss different elements of a layout |
| Basics of Financial Services | A study on mutual funds |
| Introduction to Cost Accounting | A study on Classification of Cost and Cost Sheet with two solved sums |
| Consumer Behaviour | A study on factors influencing consumer buying decisions |
| Strategic Management | A study on BCG Matrix and GE 9 Cell |
| OB & HRM | A study forms of employee separation |
| Motivation and Leadership | A study on monetary and non monetary motivational tools adopted by Indian companies |

## SYBMS SEM IV

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|---|---|
| Foundation Course IV | Discuss any three cases which depicts unethical practices in the corporate world |
| Business Economics II | A study on Fiscal Policy |
| Business Research Methods | Report Writing |
| Information Technology in Business management II | A study on concept of E-CRM |
| Production and Total Quality Management | Concepts and Importance of Total Quality Management |
| Auditing | Verification of Assets and Liabilities |
| Financial Institutions and Markets | A study on Financial Markets |
| Integrated Marketing Communication and advertising | A study on Direct Marketing |
| Rural Marketing | A study on Rural Consumer Behaviour |
| Change Management | A study on technology adoption in banking sector in India |
| Training and Development in HRM | A study on training methods ( On – the – job and off- the - job) |