



Presidency School of Management

Master of Business Administration

MBA (FinTech)

Program Regulations and Curriculum

2025-2027

Regulations No.: PU/AC-26.22/PSOM19/MBA FINTECH/2025-27

Resolution No 26.22 of the 26th Meeting of the Academic Council held on 25th July 2025, and ratified by the Board of Management in its 27th Meeting held on 28th July, 2025.

July-2025

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PART A – PROGRAM REGULATIONS AND CURRICULUM

1. Vision & Mission of the University and the School / Department:

1.1 Vision of the University:

To be a Value-driven Global University, excelling beyond peers and creating professionals of integrity and character, having concern and care for society.

1.2 Mission of the University:

- Commit to be an innovative and inclusive institution by seeking excellence in teaching, research and knowledge-transfer.
- Pursue Research and Development and its dissemination to the community, at large.
- Create, sustain and apply learning in an interdisciplinary environment with consideration for ethical, ecological and economic aspects of nation building.
- Provide knowledge-based technological support and services to the industry in its growth and development.
- To impart globally-applicable skill-sets to students through flexible course offerings and support industry's requirement and inculcate a spirit of new-venture creation.

1.3 Vision of the School:

To inspire and develop responsible leaders who generate meaningful and lasting impact on businesses, communities, and society

1.4 Mission of the School:

Our mission is to provide students with the knowledge, skills, and ethical foundation needed to lead with integrity and drive sustainable change in business and society

2. Preamble to the Program Regulations and Curriculum

This is the subset of Academic Regulations and it is to be followed as a requirement for the award of Master of Business Administration (MBA) Degree.

The Curriculum is designed to take into the factors listed in the Choice Based Credit System (CBCS) with focus on Social Project Based Learning, Industrial Training, and Internship to enable the students to become eligible and fully equipped for employment in industries, choose higher studies or entrepreneurship.

In exercise of the powers conferred by and in discharge of duties assigned under the relevant provision(s) of the Act, Statutes and Academic Regulations of the University, the Academic Council hereby makes the following Regulations.

3. Short Title and Commencement:

- a. These Regulations shall be called the Master of Business Administration (MBA (FinTech)) Program Regulations and Curriculum 2025-2027.
- b. These Regulations are subject to, and pursuant to the Academic Regulations.
- c. These Regulations shall be applicable to the ongoing Master of Business Administration (MBA (FinTech)) Programs of the 2025-2027 batch, and to all other Master of Business Administration (MBA (FinTech)) Programs which may be introduced in future.
- d. These Regulations shall supersede all the earlier Master of Business Administration (MBA (FinTech)) Program Regulations and Curriculum, along with all the amendments thereto.
- e. These Regulations shall come into force from the Academic Year 2025-2026.

4. Definitions

In these Regulations, unless the context otherwise requires:

- a. *"Academic Calendar" means the schedule of academic and miscellaneous events as approved by the Vice Chancellor;*
- b. *"Academic Council" means the Academic Council of the University;*
- c. *"Academic Regulations" means the Academic Regulations, of the University;*
- d. *"Academic Term" means a Semester or Summer Term;*
- e. *"Act" means the Presidency University Act, 2013;*
- f. *"AICTE" means All India Council for Technical Education;*
- g. *"Basket" means a group of courses bundled together based on the nature/type of the course;*
- h. *"BOE" means the Board of Examinations of the University;*
- i. *"BOG" means the Board of Governors of the University;*
- j. *"BOM" means the Board of Management of the University;*
- k. *"BOS" means the Board of Studies of a particular Department/Program of Study of the University;*
- l. *"CGPA" means Cumulative Grade Point Average as defined in the Academic Regulations;*
- m. *"Clause" means the duly numbered Clause, with Sub-Clauses included, if any, of these Regulations;*
- n. *"COE" means the Controller of Examinations of the University;*
- o. *"Course In Charge" means the teacher/faculty member responsible for developing and organizing the delivery of the Course;*
- p. *"Course Instructor" means the teacher/faculty member responsible for teaching and evaluation of a Course;*
- q. *"Course" means a specific subject usually identified by its Course-code and Course-title, with specified credits and syllabus/course-description, a set of references, taught by some teacher(s)/course-instructor(s) to a specific class (group of students) during a specific Academic Term;*
- r. *"Curriculum Structure" means the Curriculum governing a specific Degree Program*

offered by the University, and, includes the set of Baskets of Courses along with minimum credit requirements to be earned under each basket for a degree/degree with specialization/minor/honors in addition to the relevant details of the Courses and Course catalogues (which describes the Course content and other important information about the Course). Any specific requirements for a particular program may be brought into the Curriculum structure of the specific program and relevant approvals should be taken from the BOS and Academic Council at that time.

- s. *"DAC" means the Departmental Academic Committee of a concerned Department/Program of Study of the University;*
- t. *"Dean" means the Dean / Director of the concerned School;*
- u. *"Degree Program" includes all Degree Programs;*
- v. *"Department" means the Department offering the degree Program(s) / Course(s) / School offering the concerned Degree Programs / other Administrative Offices;*
- w. *"Discipline" means specialization or program of MBA Degree Program;*
- x. *"HOD" means the Head of the concerned Department;*
- y. *"L-T-P-C" means Lecture-Tutorial-Practical-Credit – refers to the teaching – learning periods and the credit associated;*
- z. *"MOOC" means Massive Open Online Courses;*
- aa. *"MOU" means the Memorandum of Understanding;*
- bb. *"NPTEL" means National Program on Technology Enhanced Learning;*
- cc. *"Parent Department" means the department that offers the Degree Program that a student undergoes;*
- dd. *"Program Head" means the administrative head of a particular Degree Program/s;*
- ee. *"Program Regulations" means the Master of Business Administration (MBA) Degree Program Regulations and Curriculum, 2025-2027;*
- ff. *"Program" means the Master of Business Administration (MBA) Degree Program;*
- gg. *"PSOM" means the Presidency School of Management;*
- hh. *"Registrar" means the Registrar of the University;*
- ii. *"School" means a constituent institution of the University established for monitoring, supervising and guiding, teaching, training and research activities in broadly related fields of studies;*
- jj. *"Section" means the duly numbered Section, with Clauses included in that Section, of these Regulations;*
- kk. *"SGPA" means the Semester Grade Point Average as defined in the Academic Regulations;*
- ll. *"Statutes" means the Statutes of Presidency University;*
- mm. *"Sub-Clause" means the duly numbered Sub-Clause of these Program Regulations;*
- nn. *"Summer Term" means an additional Academic Term conducted during the summer break (typically in June-July) for a duration of about eight (08) calendar weeks, with a minimum of thirty (30) University teaching days;*
- oo. *"SWAYAM" means Study Webs of Active Learning for Young Aspiring Minds.*
- pp. *"UGC" means University Grants Commission;*
- qq. *"University" means Presidency University, Bengaluru; and*
- rr. *"Vice Chancellor" means the Vice Chancellor of the University.*

5. Program Description:

The Master of Business Administration (MBA (FinTech)) Program Regulations and Curriculum 2025-2027 are subject to, and, pursuant to the Academic Regulations. These Program Regulations shall be applicable to the following ongoing Master of Business Administration (MBA (FinTech)) Programs of 2025-2027 offered by the Presidency School of Management (PSOM):

1. Master of Business Administration (MBA)
 - 1.1 Master of Business Administration (FinTech)
 - 1.2 Master of Business Administration (Applied Artificial Intelligence)
2. Master of Business Administration (Business Analytics)
3. Master of Business Administration (Digital Marketing)
4. Master of Business Administration (Marketing & Finance)
5. Master of Business Administration (Banking & Finance Management)

- 5.1** These Program Regulations shall be applicable to other similar programs, which may be introduced in future.
- 5.2** These Regulations may evolve and get amended or modified or changed through appropriate approvals from the Academic Council, from time to time, and shall be binding on all concerned.
- 5.3** The effect of periodic amendments or changes in the Program Regulations, on the students admitted in earlier years, shall be dealt with appropriately and carefully, so as to ensure that those students are not subjected to any unfair situation whatsoever, although they are required to conform to these revised Program Regulations, without any undue favor or considerations:

6. Minimum and Maximum Duration:

- 6.1** Master of Business Administration (MBA (FinTech)) Degree Program is a Two-Year, Full-Time Semester based program. The minimum duration of the MBA (FinTech) Program is two (02) years and each year comprises of two academic Semesters (Odd and Even Semesters) and hence the duration of the MBA (FinTech) program is four (04) Semesters.
- 6.2** A student who for whatever reason is not able to complete the Program within the normal period or the minimum duration (number of years) prescribed for the Program, may be allowed a period of two years beyond the normal period to complete the mandatory minimum credits

requirement as prescribed by the concerned Program Regulations and Curriculum. In general, the permissible maximum duration (number of years) for completion of Program is 'N' + 2 years, where 'N' stands for the normal or minimum duration (number of years) for completion of the concerned Program as prescribed by the concerned Program Regulations and Curriculum.

- 6.3** The time taken by the student to improve Grades/CGPA, and in case of temporary withdrawal/re-joining (Refer to Clause 16.1 of Academic Regulations), shall be counted in the permissible maximum duration for completion of a Program.
- 6.4** In exceptional circumstances, such as temporary withdrawal for medical exigencies where there is a prolonged hospitalization and/or treatment, as certified through hospital/medical records, women students requiring extended maternity break (certified by registered medical practitioner), and, outstanding sportspersons representing the University/State/India requiring extended time to participate in National/International sports events, a further extension of one (01) year may be granted on the approval of the Academic Council.
- 6.5** The enrolment of the student who fails to complete the mandatory requirements for the award of the concerned Degree (refer Section 19.0 of Academic Regulations) in the prescribed maximum duration (Sub-Clauses 18.1 and 18.2 of Academic Regulations), shall stand terminated and no Degree shall be awarded.

7. Program Educational Objectives (PEO)

After two years of successful completion of the program, the graduates shall be:

PEO1: Industry ready graduates having high integrity, social responsibility & leadership capabilities.

PEO2: Enhanced with analytical skills and design thinking approach to solve business problems.

PEO3: Able to foster entrepreneurial mind set through creativity and innovation.

PEO4: Enabled graduates to engage in and benefit from lifelong learning.

8. Program Outcomes (PO) and Program Specific Outcomes (PSO)

8.1 Program Outcomes (PO)

On successful completion of the Program, the students shall be able to:

- PO1:** An ability to lead themselves and others to achieve organizational goals contributing effectively to a team environment.
- PO2:** An ability to integrate functional knowledge and apply managerial skills in changing business environment.
- PO3:** An ability to identify real life problems in different management functions and solve them through strategic planning, critical thinking and innovation.
- PO4:** An ability to identify and evaluate business ideas and opportunities.
- PO5:** An ability to make data driven decisions and effectively communicate to different stakeholders.
- PO6:** An ability to evaluate and integrate ethical and societal considerations when making business decisions.
- PO7:** An ability to demonstrate commitment to continuous learning.

8.2 Program Specific Outcomes [PSOs]:

On successful completion of the Program, the students shall be able to:

On successful completion of the Master of Business Administration (MBA (FinTech)) program from Presidency University, the student shall possess:

- PSO 1:** Demonstrate advanced domain specific knowledge to make informed business decisions.
- PSO 2:** Apply management theories and tools to solve complex marketing, financial, HR and operational problems.
- PSO 3:** Develop and implement business plans that include marketing, financial, HR and operational strategies.
- PSO 4:** Demonstrate proficiency in formulating business strategies that align with organizational goals.
- PSO 5:** Assess the long-term impacts of business decisions on the environment and society, and to integrate sustainable practices into core business operations to drive innovation and value creation

9. Admission Criteria (as per the concerned Statutory Body)

The University admissions shall be open to all persons irrespective of caste, class, creed, gender or nation. All admissions shall be made on the basis of merit in the qualifying examinations; provided that forty percent of the admissions in all Programs of the University shall be reserved for the students of Karnataka State and admissions shall be made through a Common Entrance Examination conducted by the State Government or its agency and seats shall be allotted as per the merit and reservation policy of the

State Government from time to time. The admission criteria to the MBA Program is listed in the following Sub-Clauses:

- 9.1** An applicant must have a graduation degree in any field from a recognized university with a minimum of 50% marks in the qualifying examination for the general category or 45% marks for SC/ST and other reserved categories and must have appeared in any national or state-level entrance examination such as CAT, XAT, MAT, CMAT, ATMA, or KMAT.
- 9.2** Reservation for the SC / ST and other backward classes shall be made in accordance with the directives issued by the Government of Karnataka from time to time.
- 9.3** Admissions are offered to Foreign Nationals and Indians living abroad in accordance with the rules applicable for such admission, issued from time to time, by the Government of India.
- 9.4** Candidates must fulfil the medical standards required for admission as prescribed by the University.
- 9.5** If, at any time after admission, it is found that a candidate had not in fact fulfilled all the requirements stipulated in the offer of admission, in any form whatsoever, including possible misinformation and any other falsification, the Registrar shall report the matter to the Board of Management (BOM), recommending revoking the admission of the candidate.
- 9.6** The decision of the BOM regarding the admissions is final and binding.

10. Transfer of student(s) from another recognized University to the 2nd year (3rd Semester) of the MBA (FinTech) Program of the University

A student who has completed the 1st Year (i.e., passed in all the Courses / Subjects prescribed for the 1st Year) of the MBA (FinTech) Two-Year Degree Program from another recognized University, may be permitted to transfer to the 2nd Year (3rd Semester) of the MBA (FinTech) Program of the University as per the rules and guidelines prescribed in the following Sub-Clauses:

- 10.1.1** The student shall submit the Application for Transfer along with a non-refundable Application Fee (as prescribed by the University from time to time) to the University no later than July of the concerned year for admission to the 2nd Year (3rd Semester) MBA (FinTech) Program commencing on August on the year concerned.
- 10.1.2** The student shall submit copies of the respective Marks Cards / Grade Sheets / Certificates along with the Application for Transfer.

10.1.3 The transfer may be provided on the condition that the Courses and Credits completed by the concerned student in the 1st Year of the MBA (FinTech) Two Degree Program from the concerned University, are declared equivalent and acceptable by the Equivalence Committee constituted by the Vice Chancellor for this purpose. Further, the Equivalence Committee may also prescribe the Courses and Credits the concerned students shall have to mandatorily complete, if admitted to the 2nd Year of the MBA Program of the University.

10.1.4 The Program allotted to the student concerned shall be the decision of the University and binding on the student.

11.Change of Program

A student admitted to a particular Program of the MBA (FinTech) Program will normally continue studying in that Program till the completion of the program. However, the University reserves the right to provide the option for a change of Program, or not to provide the option for a change of Program, at the end of 1st Year of the MBA (FinTech) Program to eligible students in accordance with the following rules and guidelines: framed by the University from time to time.

11.1 Normally, only those students, who have passed all the Courses prescribed for the 1st Year of the MBA. Program and obtained a CGPA of not less than 6.00 at the end of the 2nd Semester, shall be eligible for consideration for a change of Program.

11.2 Change of Program, if provided, shall be made effective from the commencement of the 3rd Semester of the MBA Program. There shall be no provision for change of Program thereafter under any circumstances whatsoever.

11.3 The student provided with the change of Program shall fully adhere to and comply with the Program Regulations of the concerned Program of the MBA Program, the Fee Policy pertaining to that Program of the MBA Program, and, all other rules pertaining to the changed Program existing at the time.

11.4 Change of Program once made shall be final and binding on the student. No student shall be permitted, under any circumstances, to refuse the change of Program offered.

11.5 The eligible student may be allowed a change in Program, strictly in order of *inter se* merit, subject to the conditions given below:

11.5.1 The actual number of students in the 3rd Semester in any particular Program to which the transfer is to be made, should not exceed the intake fixed by the University for the concerned Program;

11.5.2 The actual number of students in any Program from which transfer is being sought does not fall below 75% of the total intake fixed by the University for the concerned Program.

11.5.3 The process of change of Program shall be completed within the first five days of Registration for the 3rd Semester of the MBA (FinTech) Program.

12. Specific Regulations regarding Assessment and Evaluation – including the Assessment Details of NTCC Courses, Weightages of Continuous Assessment and End Term Examination for various Course Categories

12.1 The academic performance evaluation of a student in a Course shall be according to the University Letter Grading System based on the class performance distribution in the Course.

12.2 Academic performance evaluation of every registered student in every Course registered by the student is carried out through various components of Assessments spread across the Semester. The nature of components of Continuous Assessments and the weightage given to each component of Continuous Assessments (refer Clause 0) shall be clearly defined in the Course Plan for every Course, and approved by the DAC.

12.3 Format of the End-Term examination shall be specified in the Course Plan.

12.4 Grading is the process of rewarding the students for their overall performance in each Course. The University follows the system of Relative Grading with statistical approach to classify the students based on the relative performance of the students registered in the concerned Course except in the following cases:

- Non-Teaching Credit Courses (NTCC)
- Courses with a class strength less than 30

Absolute grading method may be adopted, where necessary with prior approval of concerned DAC.

Grading shall be done at the end of the Academic Term by considering the aggregate performance of the student in all components of Assessments prescribed for the Course. Letter Grades (Clause 8.10 of Academic Regulations) shall be awarded to a student based on her/his overall performance relative to the class performance distribution in the concerned Course. These Letter Grades not only indicate a qualitative assessment of the student's performance but also carry a quantitative (numeric) equivalent called the Grade Point.

12.5 Assessment Components and Weightage

Table 12.5.1: Assessment Components and Weightage for different category of Courses

Theory Courses - Weightage - 60: 40						
Continuous Assessment* - 35%				Midterm	End term	Total
Assessment 1	Assessment 2	Assessment 3	Assessment 4			
				25%	40%	100%

Lab/CA Courses - Weightage - 75: 25					
Continuous Assessment* - 75%				End term	Total
Practice Assessment 1	Practice Assessment 2	Practice Assessment 3	Practice Assessment 4		
				Assessment & Viva 25%	100%

***Minimum 03 assessments.**

Skill based Courses like Industry Internship, Capstone project, Research Dissertation, Integrative Studio, Interdisciplinary Project, Summer / Short Internship, Social Engagement / Field Projects, Portfolio, and such similar Non-Teaching Credit Courses, where the pedagogy does not lend itself to a typical L-T-P-C structure.

Guidelines for the assessment components for the various types of Courses, with recommended weightages, shall be specified in the concerned Program Regulations and Curriculum / Course Plans, as applicable.

The exact weightages of Evaluation Components shall be clearly specified in the concerned PRC and respective Course Plan.

Normally, for Practice/Skill based Courses, without a defined credit structure (L-T-P-C) [NTCC], but with assigned Credits (as defined in Clause 5.2 of the Academic Regulations), the method of evaluation shall be based only on Continuous Assessments. The various components of Continuous Assessments, the distribution of weightage among such components, and the method of evaluation/assessment, shall be as decided and indicated in the Course Plan/PRC. The same shall be approved by the respective DAC.

12.6 Minimum Performance Criteria:

12.6.1 Theory only Course and Lab/Practice Embedded Theory Course

A student shall satisfy the following minimum performance criteria to be eligible to earn the credits towards the concerned Course:

- a. A student must obtain a minimum of 30% of the total marks/weightage assigned to the End Term Examinations in the concerned Course.
- b. The student must obtain a minimum of 40% of the AGGREGATE of the marks/weightage of the components of Continuous Assessments, Mid Term Examinations and End Term Examinations in the concerned Course.

12.6.2 Lab/Practice only Course and Project Based Courses

The student must obtain a minimum of 40% of the AGGREGATE of the marks/weightage of all assessment components in the concerned Course.

- 12.6.2.1** A student who fails to meet the minimum performance criteria listed above in a Course shall be declared as "Fail" and given "F" Grade in the concerned Course. For theory Courses, the student shall have to re-appear in the "Make-Up Examinations" as scheduled by the University in any subsequent semester, or, re-appear in the End Term Examinations of the same Course when it is scheduled at the end of the following Semester or Summer Term, if offered. The marks obtained in the Continuous Assessments (other than the End Term Examination) shall be carried forward and be included in computing the final grade, if the student secures the minimum requirements (as per Clause 12.6.1, 12.6.2 of Academic Regulations in the "Make-Up Examinations" of the concerned Course. Further, the student has an option to re-register for the Course and clear the same in the summer term/ subsequent semester if he/she wishes to do so, provided the Course is offered.

13 Additional clarifications - Rules and Guidelines for Transfer of Credits from MOOC, etc. – Note: These are covered in Academic Regulations.

The University allows students to acquire credits from other Indian or foreign institutions and/or Massive Open Online Course (MOOC) platforms, subject to prior

approval. These credits may be transferred and counted toward fulfilling the minimum credit requirements for the award of a degree. The process of transfer of credits is governed by the following rules and guidelines:

- 13.1** The transfer of credits shall be examined and recommended by the Equivalence Committee (Refer ANNEXURE B of Academic Regulations) and approved by the Dean - Academics.
- 13.2** Students may earn credits from other Indian or foreign Universities/Institutions with which the University has an MOU, and that MOU shall have specific provisions, rules and guidelines for transfer of credits. These transferred credits shall be counted towards the minimum credit requirements for the award of the degree.
- 13.3** Students may earn credits by registering for Online Courses offered by *Study Web of Active Learning by Young and Aspiring Minds (SWAYAM)* and *National Program on Technology Enhanced Learning (NPTEL)*, or other such recognized Bodies/ Universities/Institutions as approved by the concerned BOS and Academic Council from time to time. The concerned School/Parent Department shall publish/include the approved list of Courses and the rules and guidelines governing such transfer of credits of the concerned Program from time to time. The Rules and Guidelines for the transfer of credits specifically from the Online Courses conducted by SWAYAM/ NPTEL are as stated in the following Sub-Clauses:
 - 13.3.1** A student may complete SWAYAM/NPTEL/other approved MOOCs as mentioned in Clause (as per academic regulations) and transfer equivalent credits to partially or fully complete the mandatory credit requirements of Discipline Elective Courses and/or the mandatory credit requirements of Open Elective Courses as prescribed in the concerned Curriculum Structure. However, it is the sole responsibility of the student to complete the mandatory credit requirements of the Discipline Elective Courses and the Open Elective Courses as prescribed by the Curriculum Structure of the concerned Program.
 - 13.3.2** SWAYAM/NPTEL/ other approved MOOCs as mentioned in Clause (as per academic regulations) shall be approved by the concerned Board of Studies and placed.
 - 13.3.3** Parent Departments may release a list of SWAYAM/NPTEL/other approved MOOCs for Pre-Registration as per schedule in the Academic Calendar or through University Notification to this effect.

13.3.4 Students may Pre-Register for the SWAYAM/NPTEL/other approved MOOCs in the respective Departments and register for the same Courses as per the schedule announced by respective Online Course Offering body/institute/ university.

13.3.5 A student shall request for transfer of credits only from such approved Courses as mentioned in Sub-Clause, 13.3.2 above.

13.3.6 SWAYAM/NPTEL/other approved MOOCs Courses are considered for transfer of credits only if the concerned student has successfully completed the SWAYAM/NPTEL/other approved MOOCs and obtained a certificate of successful/satisfactory completion.

13.3.7 A student who has successfully completed the approved SWAYAM/NPTEL/ other approved MOOCs and wants to avail the provision of transfer of equivalent credits, must submit the original Certificate of Completion, or such similar authorized documents to the HOD concerned, with a written request for the transfer of the equivalent credits. On verification of the Certificates/Documents and approval by the HOD concerned, the Course(s) and equivalent Credits shall have forwarded to the COE for processing of results of the concerned Academic Term.

13.3.8 The credit equivalence of the SWAYAM/NPTEL/other approved MOOCs are based on Course durations and/or as recommended by the Course offering body/institute/university. The Credit Equivalence mapped to SWAYAM/ NPTEL approved Courses based on Course durations for transfer of credits is summarized in Table shown below. The Grade will be calculated from the marks received by the Absolute Grading Table in the academic regulations.

Table 13.3.2: Durations and Credit Equivalence for Transfer of Credits from SWAYAM-NPTEL/ other approved MOOC Courses		
Sl. No.	Course Duration	Credit Equivalence
1	4 Weeks	1 Credit
2	8 Weeks	2 Credits
3	12 Weeks	3 Credits

13.3.9 The maximum permissible number of credits that a student may request for credit transfer from MOOCs shall not exceed 20% of the mandatory minimum credit requirements specified by the concerned Program Regulations and Curriculum for the award of the concerned Degree.

13.3.10 The University shall not reimburse any fees/expense; a student may incur for the SWAYAM/NPTEL/other approved MOOCs.

13.4 The maximum number of credits that can be transferred by a student shall be limited to forty percent (40%) of the mandatory minimum credit requirements specified by the concerned Program Regulations and Curriculum for the award of the concerned Degree. However, the grades obtained in the Courses transferred from other Institutions/MOOCs, as mentioned in this Section, shall not be included in the calculation of the CGPA.

PART B - PROGRAM STRUCTURE

14 Structure/Component with Credit Requirements Course Baskets and Minimum Basket Wise Credit Requirements:

MBA (FinTech) Program Structure (2025-2027) totalling to 102 credits. Table 14.1.3 summarizes the type of baskets, number of courses under each basket and the associated credits that are mandatorily required for the completion of the Degree.

Table 14.1.3 : Master of Business Administration (MBA) Dual Specialization Program Structure 2025-2027: Summary of Mandatory Courses and Minimum Credit Contribution from various Baskets				
Sl. No.	Baskets			Credit Contribution
1	PROGRAM CORE (PC)			52
2	SPECIALIZATION TRACK (ST)	ST1	TRACK-CORE (STC1)	8
			TRACK-ELECTIVE (STE1)	12
		ST2	TRACK-CORE (STC2)	8
			TRACK-ELECTIVE (STE2)	12
3	PRACTICE (PR)			10
	Total Credits			102
				(Minimum)

15. Minimum Total Credit Requirements of Award of Degree:

As per the AICTE guidelines, a minimum of 102 credits is required for the award of a Master of Business Administration (MBA (FinTech)) degree.

16. Other Specific Requirements for Award of Degree, if any, as prescribed by the Statutory Bodies.

- 16.1 The award of the Degree shall be recommended by the Board of Examinations and approved by the Academic Council and Board of Management of the University.
- 16.2 A student shall be declared to be eligible for the award of the concerned Degree if she/he:
- a. Fulfilled the Minimum Credit Requirements and the Minimum Credits requirements under various baskets;
 - b. Secure a minimum CGPA of 5.00 in the concerned Program at the end of the Semester/Academic Term in which she/he completes all the requirements for the award of the Degree as specified in Sub-Clause a of Academic Regulations;
 - c. No dues to the University, Departments, Hostels, Library, and any other such Centers/ Departments of the University; and
 - d. No disciplinary action is pending against her/him.

PART C - CURRICULUM STRUCTURE/LIST

- 17. Curriculum Structure – Basket Wise Course List (not Semester Wise) List of Courses Tabled – aligned to the Program Structure (Course Code, Course Name, Credit Structure (LTPC), Contact Sessions, Course Basket, Type of Skills etc., as applicable).**

Table 17.1.4: MBA (FinTech) Program Structure 2025-2027 Program Core (PC)							
S. NO.	BASK ET	COURSE CODE	COURSE NAME	L	T	P	C
1	PC	FIN4111	Financial Accounting and Reporting	3	1	0	4
2	PC	GMM4117	Corporate Finance	3	1	0	4
3	PC	GMM4111	Managerial Economics	2	1	0	3
4	PC	ENG4001	Global Business Communication	2	0	2	3
5	PC	GMM4113	Business Strategy and Corporate Transformation	2	1	0	3
6	PC	GMM4114	Business Law and Regulatory Compliance	3	0	0	3
7	PC	GMM4115	Corporate Governance, Ethics and Social Responsibility	2	1	0	3
8	PC	GMM4118	Entrepreneurship and Innovation Management	2	1	0	3
9	PC	MKT4111	Marketing Management – Theories and Practices	2	1	0	3
10	PC	MKT4113	Digital Marketing	2	1	0	3
11	PC	OBH4111	Human Behaviour in Organizations	2	1	0	3
12	PC	GMM4120	Human Capital Management	2	1	0	3
13	PC	OPS4111	Production, Operations and Logistics Management	2	1	0	3
14	PC	QNT4111	Applied Business Statistics	2	0	2	3
15	PC	QNT4114	Applied Data Analysis and Visualization	1	1	2	3
16	PC	GMM4119	Business Research Methods	2	1	0	3
17	PC	QNT4115	Fundamentals of Business Analytics	1	0	2	2
18	PC	PPS4010	Corporate Readiness Program-I*	0	0	2	0
19	PC	PPS4011	Corporate Readiness Program-II*	0	0	2	0
Total							52

*Mandatory Non Credit Course

Table 17.1.5: List of Elective Courses under various Specializations/Stream Basket:

SPECIALIZATION TRACK							
TRACK CORE – MBA (FinTech)							
S. NO.	BASKET	COURSE CODE	COURSE NAME	L	T	P	C
1	STC	FIN5112	FinTech in Modern Finance	3	1	0	4
2	STC	FIN5124	Financial Markets and Services	3	1	0	4
3	STC	FTH5112	Data Analysis using Python	3	1	0	4
4	STC	FTH5113	Machine Learning and AI in FinTech	3	1	0	4
Total							16
TRACK ELECTIVE – MBA (FinTech)							

List of Specialization Track Electives Courses- Minimum of 24 credits is to be earned by the student in particular track

Sl no.	Course Basket	Course Code	Electives	L	T	P	C
1	STE	QNT5137	Financial Data Analytics	2	0	2	3
2	STE	FTH5114	Blockchain and Cryptocurrency in Finance	2	1	0	3
3	STE	FTH5115	Risk Management in Fintech	2	1	0	3
4	STE	FIN5114	Tax Laws and Practice	2	1	0	3
5	STE	FTH5116	Fundamentals of InsurTech and RegTech	2	1	0	3
6	STE	FTH5117	Cloud Computing	2	1	0	3
7	STE	FTH5118	Cybersecurity in Fintech	2	1	0	3
8	STE	FTH5119	FinTech in Payment and Lending	2	1	0	3
9	STE	FIN5117	Project Finance	2	1	0	3
10	STE	FTH5120	Banking and Fintech Platforms	2	1	0	3
11	STE	FTH5121	E-Commerce and E-Marketplaces	2	1	0	3
12	STE	FTH5122	Mergers and Acquisitions	2	1	0	3
13	STE	FTH5123	Algorithmic Trading	2	1	0	3
14	STE	FTH5124	Robotic Process Automation	2	1	0	3
15	STE	FTH5125	Sustainable Finance in Fintech	2	1	0	3

Table 17.1.6: MBA-(FinTech) Program Structure 2025-2027:

Practice (PR)

S. NO.	BASKET	COURSE CODE	COURSE NAME	L	T	P	C
1	PR	INT7111	Summer Internship Project	-	-	-	4
2	PR	CRP7111	Capstone Research Project	-	-	-	6
Total							10

18. Practical / Skill based Courses Internships / Thesis / Dissertation / Capstone Project Work / Portfolio / Mini project:

Practical / Skill based Courses like internship, project work, capstone project, research project / dissertation, and such similar courses, where the pedagogy does not lend itself to a typical L-T-P-C Structure as defined in Clause 5.1 of the Academic Regulations, are simply assigned the number of Credits based on the quantum of work / effort required to fulfill the learning objectives and outcomes prescribed for the concerned Courses. Such courses are referred to as Non-Teaching Credit Courses (NTCC). These Courses are designed to provide students with hands-on experience and skills essential for their professional development. These courses aim to equip students with abilities in problem identification, root cause analysis, problem-solving, innovation, and design thinking through industry exposure and project-based learning. The expected outcomes are first level proficiency in problem solving and design thinking skills to better equip MBA post graduates for their professional careers. The method of evaluation and grading for the Practical / Skill based Courses shall be prescribed and approved by the concerned Departmental Academic Committee (refer Annexure A of the Academic Regulations). The same shall be prescribed in the Course Handout.

18.1 Internship

A student may undergo an internship for a period of 4-6 weeks in an industry / company or academic / research institution during the Semester Break between 2nd and 3rd Semesters, subject to the following conditions:

18.1.1 The Internship shall be conducted in accordance with the Internship Policy prescribed by the University from time to time.

18.1.2 The number of Internships available for the concerned Academic Term. Further, the available number of internships shall be awarded to the students by the University on the basis of merit using the CGPA secured by the student. Provided further, the student fulfils the criteria, as applicable, specified by the Industry / Company / research institution providing the Internship, as stated in Sub-Clause 2.6.1.2 above.

18.1.3 A student may opt for Internship in an Industry / Company / research institution of her / his choice, subject to the condition that the concerned student takes the responsibility to arrange the Internship on her / his own. Provided further, that the Industry / Company or academic / research institution offering such Internship confirms to the University that the Internship shall be conducted in accordance with the Program Regulations.

18.1.4 A student selected for an Internship in an industry / company or academic / research institution shall adhere to all the rules and guidelines prescribed in the Internship Policy of the University.

18.2 Dissertation

A student may opt to do a Research Project / Dissertation for a period of 6-8 weeks in an Industry / Company or academic / research institution or the University Department(s) as an equivalence of Capstone Project, subject to the following conditions:

18.2.1 The Research Project / Dissertation shall be approved by the concerned HOD and be carried out under the guidance of a faculty member.

The student may do the Research Project / Dissertation in an Industry / Company or academic / research institution of her / his choice subject to the above-mentioned condition (Sub-Clause 2.6.4.1). Provided further, that the Industry / Company or academic / research institution offering such Research Project / Dissertation confirms to the University that the Research Project / Dissertation work will be conducted in accordance with the Program Regulations and requirements of the University.

19 List of Elective Courses under various Specializations/Stream Basket:

Table 19.1.7: List of Elective Courses under various Specializations/Stream Basket:

SPECIALIZATION TRACK							
TRACK CORE – MBA (FinTech)							
S. NO.	BASKET	COURSE CODE	COURSE NAME	L	T	P	C
1	STC1	FIN5112	FinTech in Modern Finance	3	1	0	4
2	STC2	FIN5124	Financial Markets and Services	3	1	0	4
3	STC3	FTH5112	Data Analysis using Python	3	1	0	4
4	STC4	FTH5113	Machine Learning and AI in FinTech	3	1	0	4
Total							16

TRACK ELECTIVE – MBA (FinTech)							
List of Specialization Track Electives Courses- Minimum of 24 credits is to be earned by the student in particular track							
Sl no.	Course Basket	Course Code	Electives	L	T	P	C
1	STE	QNT5137	Financial Data Analytics	2	0	2	3
2	STE	FTH5114	Blockchain and Cryptocurrency in Finance	2	1	0	3
3	STE	FTH5115	Risk Management in Fintech	2	1	0	3
4	STE	FIN5114	Tax Laws and Practice	2	1	0	3
5	STE	FTH5116	Fundamentals of InsurTech and RegTech	2	1	0	3
6	STE	FTH5117	Cloud Computing	2	1	0	3
7	STE	FTH5118	Cybersecurity in Fintech	2	1	0	3
8	STE	FTH5119	FinTech in Payment and Lending	2	1	0	3
9	STE	FIN5117	Project Finance	2	1	0	3
10	STE	FTH5120	Banking and Fintech Platforms	2	1	0	3
11	STE	FTH5121	E-Commerce and E-Marketplaces	2	1	0	3
12	STE	FTH5122	Mergers and Acquisitions	2	1	0	3
13	STE	FTH5123	Algorithmic Trading	2	1	0	3
14	STE	FTH5124	Robotic Process Automation	2	1	0	3
15	STE	FTH5125	Sustainable Finance in Fintech	2	1	0	3

22. Recommended Semester Wise Course Structure / Flow including the Program / Discipline Elective Paths / Option

Table 22.1.8 List of MBA (FinTech) Courses (Proposed)							
MBA (FinTech)							
S.NO	BASKET	COURSE CODE	SEMESTER I	L	T	P	C
1	PC	QNT4111	Applied Business Statistics	2	0	2	3
2	PC	ENG4001	Global Business Communication	2	0	2	3
3	PC	FIN4111	Financial Accounting and Reporting	3	1	0	4
4	PC	OBH4111	Human Behaviour in Organizations	2	1	0	3
5	PC	GMM4111	Managerial Economics	2	1	0	3
6	PC	OPS4111	Production Operations and Logistics Management	2	1	0	3
7	PC	MKT4111	Marketing Management- Theories and Practices	2	1	0	3
			Total Credits				22

S.NO	BASKET	COURSE CODE	SEMESTER II	L	T	P	C
1	PC	GMM4119	Business Research Methods	2	1	0	3
2	PC	QNT4114	Applied Data Analysis and Visualization	1	1	2	3
3	PC	MKT4113	Digital Marketing	2	1	0	3
4	PC	GMM4117	Corporate Finance	3	1	0	4
5	PC	GMM4120	Human Capital Management	2	1	0	3
6	PC	QNT4115	Fundamentals of Business Analytics	1	0	2	2
7	PC	PPS4010	Corporate Readiness Program-I*	0	0	0	0
8	STC1	FIN5112	FinTech in Modern Finance	3	1	0	4
9	STC2	FIN5124	Financial Markets and Services	3	1	0	4
	*Mandatory Non Credit Course		Total Credits				26
S.NO	BASKET	COURSE CODE	SEMESTER III	L	T	P	C
1	PC	GMM4113	Business Strategy and Corporate Transformation	2	1	0	3
2	PC	GMM4114	Business Law and Regulatory Compliance	3	0	0	3
3	STC3	FTH5112	Data Analysis using Python	3	1	0	4
4	STC4	FTH5113	Machine Learning and AI in FinTech	3	1	0	4
5	STE		STE 1	2	1	0	3
6	STE		STE 2	2	1	0	3
7	STE		STE 3	2	1	0	3
8	STE		STE 4	2	1	0	3
9	PR	INT7111	Summer Internship Project	-	-	-	4
10	PC	PPS4011	Corporate Readiness Program-II*	0	0	0	0
11	PC	PPS4012	Introduction to verbal Ability	0	0	2	0
12	PC	PPS4013	Aptitude Training	0	1	0	0
	*Mandatory Non Credit Course		Total Credits				30
S.NO	BASKET	COURSE CODE	SEMESTER IV	L	T	P	C
1	PC	GMM4115	Corporate Governance, Ethics and Social Responsibility	2	1	0	3
2	PC	GMM4118	Entrepreneurship and Innovation Management	2	1	0	3
3	STE		STE 5	2	1	0	3

4	STE		STE 6	2	1	0	3
5	STE		STE 7	2	1	0	3
6	STE		STE 8	2	1	0	3
8	PR	INT7111	Summer Internship Project	-	-	-	4
			Total Credits				24
Grand Total				102 Credits			

23. Course Catalogue of all Courses Listed including the Courses Offered by other School / Department and Discipline / Program Electives

Course Catalogues of MBA (FinTech) Program

1st Semester

Course Code: QNT4111	Course Title: Applied Business Statistics Type of Course: Program Core		L – T – P – C	2– 0 – 2 – 3
Version No.	1.0			
Course Pre-requisites	Basic Understanding of Statistics			
Anti-requisites	NIL			
Course Description	This course offers a foundational understanding of statistics for business applications. Topics include measures of location and variation, correlation and regression, probability concepts, and key probability distributions such as binomial, Poisson, and normal. Emphasis is placed on data analysis, interpretation, and decision-making under uncertainty using real-world business scenarios.			
Course Outcomes	On successful completion of this course the students shall be able to: • CO1: Describe the data using descriptive statistics. • CO2: Solve business related problems involving probabilities. • CO3: Solve business related problems using probability distributions. • CO4: Test hypotheses using relevant testing procedures.			
Course Objective:	The course aims to: 1. Analyze business data using measures of central tendency, dispersion, correlation, and regression. 2. Apply probability concepts, including conditional probability and Bayes’ theorem, to assess risk and uncertainty. 3. Use discrete and continuous probability distributions to support data-driven business decision-making.			
Module 1	Measures of Location and Variation	Lecture, Tutorial	Understand	[L7 + P7 :14 Sessions]
Measures of Location – mean, median and mode for grouped and ungrouped data, weighted mean and geometric mean for ungrouped data, quartiles and percentiles for grouped and ungrouped data, their relative merits and demerits. Measures of variation – range, interquartile range for grouped and ungrouped data Standard deviation, variance and coefficient of variation (grouped and ungrouped data).				
Module 2	Correlation, Regression and Probability	Lecture, Tutorial	Application	[L8 + P8:16 Sessions]
Correlation – Scatter plot, Karl Pearson and Spearman’s rank correlation. Simple linear regression. Random experiment, sample space, event, equally likely events, mutually exclusive events and complement of an event. Classical approach to probability, simple probability, joint probability and marginal probability Addition and multiplication rules of probability, independence of events. Conditional probability and Bayes theorem.				
Module 3	Random Variable and Probability Distributions	Lecture, Tutorial	Application	[L8 + P8:16 Sessions]

Random variable – Discrete and Continuous random variable. Expected value and variance of a discrete random variable. Covariance - Applications. Probability distributions – discrete and continuous. Probability mass function and probability density functions. Discrete distributions – Binomial distribution, Poisson distribution – mean, variance and computation of probabilities. Continuous distributions -normal distribution – properties and computation of probabilities. Introduction to uniform and exponential distributions.				
Module 4	Introduction to Testing of Hypothesis	Lecture Method	Analysis	[L7 + P7:14 Sessions]
Concept of population, sample, parameter and statistic. Introduction to sampling distributions. Hypothesis - Null and alternative hypothesis. Type I and Type II errors, level of significance. Test for single mean – known and unknown variance. Test for single proportion.				
Targeted Application & Tools that can be used: NA				
Project work/Assignment:				
• Self-learning – The Students will learn about computing quartiles and percentiles for ungrouped data • Peer Learning: Students who have understood the topic will solve the problems on the board thereby giving confidence to others to learn the concepts • Case Study: Students will be given small case lets to solve the problems				
Text Book:				
• T1. Anderson D R, Sweeny D J, Williams T A, Camm J D, Cochran J J, Fry M J and Ohlmann JW (2019), Statistics for Business and Economics,14th edition Cengage learning, New Delhi.				
References:				
• R1. Levine D M, Stephan D F, Szabat K A (2016) Statistics for Managers, 7th edition, New Delhi • R2. Ken Black (2010) Business Statistics for Contemporary Decision Making, 6th ed. John Wiley and sons, New Delhi				
Online Resources:				
https://profiletree.com/online-business-statistics/				
Articles:				
• https://ug.its.edu.in/sites/default/files/Business%20Statistics.pdf • https://www.ijert.org/research/role-of-statistics-on-business-research-IJERTV2IS100524.pdf				
Multimedia (Videos):				
• https://www.youtube.com/watch?v=pdH4YYoOdt4&list=PLEHGYFbPuuMG-0ueLQAgjLTVkLneJpIFJ				
Case Studies:				
• DiGiorno Pizza: Introducing a Frozen Pizza to Compete with Carry-Out				
Catalogue prepared by	Dr Sajad Hussain			
Recommended by the Board of Studies on	BOS NO: 18 th held on 6th June 2025			
Date of Approval by the Academic Council	Academic Council Meeting No. 26 th and held on 25th July 2025			

Course Code: ENG4001	Course Title: Global Business Communication Type of Course: Program Core	L	T	P	C
		2	0	2	3
Version No.	1.0				
Course Pre-requisites	None				
Anti-requisites	Nil				
Course Description	This course equips the business graduates/ students with advanced communication competencies necessary for impactful business presence. It focuses on strategic business communication, cultural awareness, active listening, persuasive writing, personal branding, and business presentation skills. Through experiential activities, case-based learning, and digital tools, learners develop the confidence and executive presence to lead in diverse business environments.				
Course Objective	1. Integrate DEI principles and intercultural competencies into leadership and organizational communication to build inclusive practice. 2. Apply strategic listening, writing, and speaking techniques to produce clear, purpose-fit messages across channels. 3. Analyze communication processes and cultural/contextual factors to diagnose barriers and select evidence-based remedies. 4. Create a distinctive personal brand and digital presence aligned with career goals using visual and narrative tools. 5. Deliver structured, engaging, audience-centred business presentations in in-person and virtual settings.				
Course Out Comes	On successful completion of the course the students shall be able to: • CO1 Apply cross cultural and DEI frameworks to real workplace scenarios. • CO2 - Evaluate the clarity, tone, and effectiveness of emails, memos, and minutes, and justify revisions with evidence. • CO3 - Develop a coherent personal-brand portfolio that includes a clear branding statement and an optimised digital profile. • CO4 - Deliver audience-specific business presentations with logical structure, sound visual design, and confident Q&A.				
Course Content					
Module 1	Foundations of Business Communication	Assessment 1 - Quiz		Analyze 15 Sessions (Theory and Practice included)	
Role of communication in an organization – Components – Process – Direction Diversity, Equity, and Inclusion: Concepts & Challenges - Hofstede’s theory Cultural Capital and Communication Barriers: Language, Accent, Cultural Codes, Diversity and impediments to cross-cultural Communication Media Choices, and social media communication Activities:					

Communication Audit: Analyse communication flow and barriers in organizations using case study. Cultural Simulation Exercise: Role-play scenarios demonstrating communication challenges across different cultural dimensions (Hofstede framework). Media Choice Matrix: Students evaluate different media for business communication situations and justify their choices.			
Module 2	Strategic Listening and Writing for Business Impact	Assessment 2 Business Email, MoM	Apply 12 Sessions (Theory and Practice included)
Listening in Business Contexts- As a strategic tool - Emotional Intelligence and Listening Business Writing Essentials - Principles of Effective Writing (Based on Harvard Business Essentials) - Planning and Drafting Techniques - Business emails, memos, circulars and MoM AI and Business Writing Activities: Listening Lab: Peer-reviewed listening journals based on simulated team meetings or client interactions. Writing Clinic: Rewrite poorly written emails and memos with justification based on Harvard principles. AI Integration Task: Use AI tools (e.g., Grammarly, ChatGPT, or MS Editor) to revise and optimize business writing, followed by reflection on the role of AI.			
Module 3	Personal Brand Development	Assessment 3 – Personal Branding Portfolio	Apply 15 Sessions (Theory and Practice included)
Need and Power of Personal Branding - Know Thyself – Crafting Your Brand Core Building a Digital Presence – LinkedIn and Beyond - Managing Your Online Reputation Living the Brand – Resume, Interviews, and Networking Visual Identity and Personal Branding Design Activities Brand Core Workshop: Create a personal branding statement and vision board. LinkedIn Sprint: Optimize LinkedIn profiles, active engagement and solicit feedback. Mock Networking Event: Simulated interviews and elevator pitches with branding feedback.			
Module 4	Business Presentation	Assessment 4 -Elevator Pitch	Apply 18 Sessions (Theory and Practice included)
Foundations of Business Presentations - Structuring for Impact – Inclusion of Visual Aids and Slide Design - Handling Q&A and Audience Engagement Types of Business Presentations - Elevator Pitches and Investor Pitches -Sales Presentations and Product Launches, Strategic and Boardroom Presentations - Virtual and Hybrid Presentation Skills Activities Mini Project: Students choose a business idea, prepare a pitch deck, and present it. Slide Design Challenge: Redesign poor slides for clarity and visual appeal using Canva or PowerPoint. Presentation Lab: Practice virtual and in-person presentations with video-based peer evaluation.			

Targeted Application & Tools for usage Grammarly, Ethical use of ChatGPT, and Microsoft Editor for AI-aided business writing practice) Purdue OWL (Online Writing Lab), Microsoft PowerPoint / Google Slides / Canva	
Project work/Assignment: Mention the Type of Project assignment proposed for this course Quiz, Business Email, MoM, Personal Branding Portfolio, Elevator Pitch Presentation	
Textbook: Cardon, P. W. (2021). <i>Business Communication: Developing Leaders for a Networked World</i> (4th ed.). McGraw-Hill Education. Lesikar, V. R., & Flatley, M. (2017). <i>Business Communication: Making Connections in a Digital World</i> (11th ed.). Tata McGraw Hill. Bovee, C. L., & Thill, J. V. (2018). <i>Business Communication Today</i> (14th ed.). Pearson.	
References: Hofstede, G. (2011). <i>Dimensionalizing Cultures: The Hofstede Model in Context</i> . Online Readings in Psychology and Culture. Goleman, D. (1995). <i>Emotional Intelligence</i> . Bantam Books. Harvard Business Review. (n.d.). Articles on <i>Listening as a Leadership Tool</i> . Schawbel, D. (2012). <i>Me 2.0: Build a Powerful Brand to Achieve Career Success</i> . Kaplan Publishing. Montoya, P., & Vandehey, T. (2008). <i>The Brand Called You</i> . McGraw-Hill. Barrett, D. J. (2021). <i>Leadership Communication</i> (5th ed.). McGraw-Hill.	
Catalogue prepared by	Dr. Pritha Sanyal
Recommended by the Board of Studies on	BOS NO: 18 th held on 6th June 2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26 th and held on 25th July 2025

Course Code: FIN4111	Course Name: Financial Accounting and Reporting	L-T-P-C	3	1	0	4
Version No.	1.0					
Course Pre-requisites	Basic knowledge of accounting concepts and preparation of simple financial statements at the Basic level (Introductory Accounting).					
Anti-requisites	NIL					
Course Description	This course offers a comprehensive understanding of Financial Accounting and Reporting under IND-AS and related regulations. It covers the framework and applicability of standards, preparation of statutory financial statements, and advanced topics such as recognition, measurement, investments, amalgamations, leases, taxation, and reporting of intangibles, provisions, and buybacks. The course emphasizes both technical accounting skills and analytical interpretation , preparing students to manage complex financial reporting in corporate settings.					
Course Outcomes	CO1: Explain the framework and applicability of IND-AS and prepare financial statements in compliance with disclosure requirements. (Understand)					

	CO2: Apply recognition and measurement principles to contingencies, prior period adjustments, foreign exchange differences, and revenue recognition. <i>(Apply)</i> CO3: Prepare and interpret financial statements for separate entities, joint ventures, and business combinations, and evaluate borrowing cost capitalization. <i>(Apply)</i> CO4: Analyze and account for leases, compute earnings per share, prepare consolidated financial statements, and apply IND-AS guidance on taxation. <i>(Analyze)</i> CO5: Classify, measure, and report intangible assets, provisions, contingent liabilities, and account for buyback of securities in compliance with legal frameworks. <i>(Evaluate)</i>			
Course Objectives:	• Provide a strong foundation in the concepts, framework, and application of IND-AS in financial reporting. • Develop the ability to prepare and interpret corporate financial statements in accordance with national and international standards. • Train students to analyze complex business transactions such as amalgamations, joint ventures, leases, and taxation under IND-AS. • Enhance practical skills in disclosure, compliance, and regulatory reporting as required under the Companies Act and SEBI guidelines. • Build analytical capacity to connect financial reporting with managerial decision-making, ensuring relevance for both academia and industry.			
Module 1	Introduction to Accounting Standards and Financial Statements	Lecture Method	Understand	12 Sessions
IND-AS 1 – Presentation of Financial Statements-Introduction to IND-AS, Evolution from Indian GAAP to IND-AS Convergence with IFRS (International Financial Reporting Standards), Objectives of IND-AS implementation, Qualitative characteristics: Relevance, Faithful Representation, Comparability, Understandability, Fair value measurement and its role in IND-AS. Components of Financial Statements, Balance Sheet, Statement of Profit and Loss, Statement of Changes in Equity, Statement of Cash Flows (as per IND-AS 7) Notes to Accounts & Significant Accounting Policies, IND-AS 2 – Standard cost and retail methods Net Realisable Value (NRV) Valuation at lower of Cost or NRV Situations requiring write-down to NRV and reversals Recognition as Expense Treatment of inventories in profit & loss Abnormal wastage, storage costs, administrative overheads. IND-AS 7 – Statement of Cash Flows Classification of Cash Flows Operating activities: cash generated from core operations Investing activities: acquisition & disposal of assets and investments Financing activities: changes in equity and borrowings Methods of Reporting Direct method (cash receipts and payments) Indirect method (adjustment of net profit with non-cash transactions)				
Module 2	Recognition and Measurement Principles	Problem-Solving	Apply	14 Sessions

IND-AS 4 (Contingencies, Events after BS Date) – Events after Balance Sheet Date Adjusting events (e.g., bankruptcy of a customer, settlement of a case) non-adjusting events (e.g., fire after reporting date, dividends declared) IND-AS 8 (Prior Period, Policies) -Accounting Policies Selection of policies consistent with IND-AS framework Disclosure of significant policies Changes in Accounting Estimates Depreciation estimates, useful life changes, provision adjustments Prospective application Prior Period Errors Identification, correction, retrospective restatement Disclosure Requirements Nature, amount, and impact of changes Practical Coverage (Limited) Illustrations: change in depreciation method, error rectification IND-AS 18 – Revenue Recognition-Sales with deferred payment (discounting) Service contracts with stage completion Interest calculation under effective interest method IND-AS 16 – Property, Plant & Equipment- Subsequent Measurement Models Cost model vs Revaluation model Component accounting Depreciation Methods: SLM, WDV, Units of Production Revision of useful life & residual value IND-AS 21 – Effects of Changes in Foreign Exchange Rates- Recording imports/exports Translation of monetary items Recognition of forex gains/losses				
Module 3	Investment, Amalgamation and Borrowing Costs	Experiential Learning	Apply	12 Sessions
IND-AS 27 – Separate Financial Statements- Preparation of SFS showing investments in subsidiaries/associates IND-AS 28 – Investments in Associates & Joint Ventures-Numerical Problem on equity method: Share of profit recognition, dividend adjustment. IND-AS 103 – Business Combinations / Amalgamation- purchase consideration, goodwill calculation, pooling vs acquisition method IND-AS 23 – Borrowing Costs- Qualifying assets: Capitalization of interest on specific and general borrowings.				
Module 4	Leases, EPS, Consolidation and Taxation	Problem Solving	<i>Analyze</i>	12 Sessions
IND-AS 116 – Leases- Recording a lease in lessee books (initial recognition & amortisation) Differentiating finance vs operating lease, IND-AS 33 – Earnings Per Share- Basic EPS with bonus issue, diluted EPS with convertible instruments IND-AS 110 – Consolidated Financial Statements- Consolidated Balance Sheet with parent + subsidiary Treatment of NCI and goodwill IND-AS 12 – Income Taxes- Concept of temporary differences Deferred tax liabilities (DTL) vs Deferred tax assets (DTA) Recognition criteria and exceptions.				
Module 5	Intangibles, Provisions and Buyback	Scenario-Based Learning	<i>Evaluate</i>	10 Sessions
IND-AS 38 – Intangible Assets- Amortisation & Impairment, Disclosure Requirements Useful life, amortisation methods, carrying amounts IND-AS 37 – Provisions, Contingent Liabilities & Contingent Assets- Provision: present obligation, probable outflow, reliably measurable Contingent liability vs contingent asset Constructive vs legal obligations				

Buyback of Securities (Companies Act, 2013 & SEBI Regulations)- Conditions & Procedures, Accounting Treatment Entries for buyback from reserves vs fresh issue Capital Redemption Reserve (CRR) requirement Disclosure in Balance Sheet	
Project work/assignment: The ProQuest database will be used for interpretation of the financial statement and analysis for strategic decision-making.	
1. CA 1 – Quiz 2. CA 2 – Assignment 3. CA 3 – Presentation 4. CA 4 – Case Study	
Textbooks - Ghosh, T. P. (2021). <i>Indian accounting standards (IND-AS): Interpretation, issues, and practical application</i> (5th ed.). Taxmann. - Goyal, B., & Goyal, A. (2021). <i>Corporate financial reporting and analysis</i> (2nd ed.). Taxmann. - Gupta, R. (2021). <i>Student's guide to IND-AS</i> (5th ed.). Taxmann. Reference Books - Alexander, D., Britton, A., & Jorissen, A. (2020). <i>International financial reporting and analysis</i> (8th ed.). Cengage. - Arora, M. N. (2022). <i>Cost and management accounting</i> (13th ed.). Himalaya Publishing House. - Bhattacharyya, A. K. (2020). <i>Financial accounting for business managers</i> (4th ed.). PHI Learning. - Dhamija, S. (2023). <i>Financial accounting for managers</i> (4th ed.). Pearson India. - Gupta, R. L., & Radhaswamy, M. (2019). <i>Advanced accountancy</i> (19th ed.). Sultan Chand & Sons. - ICAI. (2021). <i>Guidance note on accounting for provisions, contingent liabilities and intangible assets</i>. Institute of Chartered Accountants of India. - ICAI. (2022). <i>Study material on IND-AS and consolidation of financial statements</i>. Institute of Chartered Accountants of India. - Jain, S. P., & Narang, K. L. (2019). <i>Advanced accounting</i> (20th ed.). Kalyani Publishers. - Maheshwari, S. N., & Maheshwari, S. K. (2019). <i>Financial accounting</i> (6th ed.). Vikas Publishing House. - Mukherjee, A., & Hanif, M. (2018). <i>Corporate accounting</i> (3rd ed.). Tata McGraw Hill. - Tulsian, P. C., & Tulsian, B. (2020). <i>Financial accounting</i> (2nd ed.). Tata McGraw Hill. - Weygandt, J. J., Kimmel, P. D., & Mitchell, J. E. (2024). <i>Accounting principles</i> (15th ed.). Wiley.	
Catalogue prepared by	
Recommended by the Board of Studies on	BOS NO: 18th held on 6 th June 2025

Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25 th July 2025
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Code: OBH4111	Course Title: Human Behaviour in Organizations		L 2	T 1	P 0	C 3
Version No.	1.0					
Course Pre-requisites	Nil					
Anti-requisites	Nil					
Course Description	This course explores how individuals, teams, and organizational structures shape workplace behavior and performance. Designed for MBA students, it blends theory with practical learning to build critical skills in motivation, perception, leadership, communication, decision-making, and change management. Through case studies, discussions, and projects, students gain practical insights into managing people, fostering collaboration, and applying behavioral principles to real-world business challenges. The course prepares future leaders to navigate complex organizational dynamics with clarity, empathy, and strategic impact.					
Course Objective	This course is designed to improve the learners' EMPLOYABILITY SKILLS by using PARTICIPATIVE LEARNING techniques					
Course Out Comes	On completion of this course, the student will be able to: CO1 : Understand the foundational concepts of individual and group behavior in organizations, including motivation, perception, and attitude formation. CO2 : Apply behavioral theories to analyze workplace scenarios and recommend strategies for improving team dynamics, communication, and leadership effectiveness. CO3 : Analyze behavioural challenges in organisations, integrating insights from DM , Conflict Resolution and Change management CO4 : Evaluate organizational practices and culture through case studies to assess their impact on employee performance and change readiness and overall organisational effectiveness					
Course Content:						
Module 1	Intro duction to Human Behavi or in Organi zation		Assessment 1 - Quiz	8 sessions		
Topics: Importance of Organization Behavior, Evolution & Historical Developments, Management Roles & Skills, Discipline that contribute to OB. Ethical Behaviors in organizations, Challenges and Opportunities of OB - Workforce Diversity, Inclusion, Globalization, Managing Virtual Workforce Tutorial: Recent Developments in managing diverse workforces / Latest articles or blogs of relevance						
Module 2	Individ ual Behavi ours- Percep		Assessment 2 – Assignment	12 sessions		

	tions, Attitud es Person ality & Learnin g			
Perception: Meaning, Factors affecting Perceptions, Perception process. Attitudes – Definition, Key elements of attitudes, Attitudes and related concepts (Values, opinion, belief and ideology), Characteristics of attitudes, Attitude formation, Attitude measurement, Changing attitudes. Personality: MBTI, Big Five, 16PF, Type 'A' Type 'B', Eric Fromm, Karen Horney Learning & reinforcement, Classical & Operant conditioning, shaping of behaviour, Defense Mechanism Emotions and Emotional intelligence (Application)				
Module 3	Motiva tion Concep ts and its Applica tions		Assessment 3 – Case Analysis	12 sessions
Motivation: Meaning, Classic & Contemporary Theories of Motivation: Hierarchy of Needs Theory, Two-Factor Theory, McClelland's Theory of Needs, Self-determination Theory, Expectancy theory, Goal Setting Theory; Using Extrinsic Rewards & Intrinsic Rewards to Motivate Employees. (Analyze)				
Module 4	Group Behavi our and Leader ship		Assessment 4 – Report Writing	13 sessions
Group Behavior: Defining and Classifying Groups, Stages of Group Development, Group Decision Making: Groups Versus the Individual, Group Decision-Making Techniques. Differences Between Groups and Teams, Types of Teams, Creating Effective Teams Leadership: concept, contingency and contemporary theories of leadership. Leadership Prospective: Charismatic leadership, Transactional and Transformational leadership, Servant Leadership. Organization Development and Organization Change (Evaluate)				
Targeted Application & Tools that can be used: Role Plays, Psychometric tests and analysis, personality test scales.				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course				
Project/ Assignment: (Participative learning) Assesment1: Quiz on Relevant concepts of the course Assessment -2: Individual Written Assignment Review the given article mentioned in the link below and submit assignment. (Kindly note: Student should visit PU library and access the online resources for the same and incorporate the assignment as well as attach the photo of log in and log out in person in the end of the assignment file.) Assesment-3: Case study: Analyse the case given in link below and identify issue in the given situation and provide possible solutions. (Student needs to visit PU library to access the online Resources to access the case study provided and attach the photo of Login and Logout time in the end of the assignment)				

Assessment -4: Report Writing: Identify any one MNC of IT sector and bring out the various activities and strategies followed in that organization with reference to Team Work Culture and submit a report. (Kindly note: Student should visit PU library and access the online resources for the same and incorporate the assignment as well as attach the photo of log in and log out in person in the end of the assignment file.)

Text Book: T1- *Robbins, S. P., & Judge, T. A. (2025). Organizational behavior* (19th ed.). Pearson Education. [VitalSource](#)

References:

- R1 – Luthans, F., Luthans, B. C., & Luthans, K. W. (2021). *Organizational behavior: An evidence-based approach* (14th ed.). Information Age Publishing. [VitalSource](#).
- R2- Sanket Sunand Dash (2021). *Organizational Behavior*, Thirteenth Edition, Wiley India Pvt. Ltd.

Research and Articles:

Working with Millennials: Using Emotional Intelligence and Strategic Compassion to Motivate the Next Generation of Leaders

1.You don't have to be Expert: Increase productivity by increasing EQ

[https://research-ebsco-com-](https://research-ebsco-com-presiuniv.knimbus.com/c/n5guci/search/details/hgnfiabbuj?db=e000xww)

[presiuniv.knimbus.com/c/n5guci/search/details/hgnfiabbuj?db=e000xww](https://research-ebsco-com-presiuniv.knimbus.com/c/n5guci/search/details/hgnfiabbuj?db=e000xww)

2. People are your Resources: Focus on others to get what you want

[https://research-ebsco-com-](https://research-ebsco-com-presiuniv.knimbus.com/c/n5guci/search/details/hgnfiabbuj?db=e000xww)

[presiuniv.knimbus.com/c/n5guci/search/details/hgnfiabbuj?db=e000xww](https://research-ebsco-com-presiuniv.knimbus.com/c/n5guci/search/details/hgnfiabbuj?db=e000xww)

Case studies:

1. Influence of Manager's Leadership Style on Employees' Performance

https://www.researchgate.net/publication/374741033_CASE_STUDIES_IN_ORGANIZATIONAL_BEHAVIOUR

2. Influence of Leadership among Problematic Workers in Oil Palm Plantation Sector

https://www.researchgate.net/publication/374741033_CASE_STUDIES_IN_ORGANIZATIONAL_BEHAVIOUR

Catalogue prepared by	Dr. B. Anupama
Recommended by the Board of Studies on	BOS NO: 18 th held on 6th June 2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26 th and held on 25th July 2025

Course Code: GMM4111	Course Title: Managerial Economics	L	T	P	C
		2	1	0	3
Version No.	1				
Course Pre-requisites	Nil				

Anti-requisites	Nil		
Course Description	This course explores the application of economic principles to managerial decision-making in a business context. By blending microeconomic theory with practical tools, students learn how to analyze demand, production, costs, pricing, and market structures. The course also addresses the influence of macroeconomic conditions, risk, and government policies on managerial decisions. Through case studies and applications, students gain the ability to apply economic reasoning to real-world business challenges.		
Course Objective	This course is designed to improve the learners' EMPLOYABILITY SKILLS by using PARTICIPATIVE LEARNING techniques		
Course Out Comes	On completion of this course, the student will be able to:		
	CO1: Understand and explain the principles of managerial economics and their application in business decision-making. (Understand)		
	CO2: Apply demand and supply analysis, forecasting methods, and elasticity concepts to solve managerial problems. (Apply)		
	CO3: Analyze production and cost relationships to recommend strategies for efficiency and profitability. (Analyze)		
	CO4: Evaluate pricing and output decisions across different market structures, considering risks, uncertainties, and government interventions. (Evaluate)		
Course Content:			
Module 1	Introduction to Managerial Economics	Assessment 1 - Quiz	10 sessions
Topics: Nature, scope, and significance of managerial economics in decision-making. Relationship of managerial economics with microeconomics, macroeconomics, and functional areas of management. Fundamental economic concepts: scarcity, choice, opportunity cost, marginal analysis, and time perspective. Role of managerial economics in modern business strategy. Factors of Production and Circular flow of Economy			
Production function: short-run and long-run. Law of variable proportions returns to scale, and isoquants. Cost concepts: fixed, variable, total, average, marginal, opportunity costs. Short-run and long-run cost curves, learning curve, economies and diseconomies of scale. Applications of cost analysis in managerial decision-making (break-even analysis, make-or-buy decisions).			
Module 2	Demand and supply Forecasting	Assessment 2 – Assignment	15 sessions
Demand analysis: law of demand, determinants of demand, exceptions to the law of demand. Elasticity of demand: price, income, and cross elasticity – managerial uses and applications. Demand forecasting: qualitative and quantitative techniques (survey methods, moving averages, regression analysis, econometric models). Business applications of demand forecasting: production planning, pricing, and marketing strategies. Case study discussions on forecasting errors and their managerial implications.			
Supply Analysis: Law of Supply – Price elasticity of supply			

Price Equilibrium			
Module 3	Market Structures and Pricing Decisions	Assessment 3 – Project/Report Writing	12 sessions
Market Structures and characteristics Price-output decisions under different market structures: Perfect competition – equilibrium in short run and long run. Monopoly – price discrimination, profit maximization. Monopolistic competition – product differentiation, selling costs. Oligopoly – collusive and non-collusive models (Cournot, Bertrand, Kinked Demand Curve). Pricing practices: cost-plus pricing, transfer pricing, penetration pricing, skimming strategy, pricing in the digital economy. Government intervention and regulation in pricing and competition. Decision-making under risk and uncertainty: expected value analysis, decision trees.			
Module 3	Macroeconomics	Assessment 4 – Scenario Analysis Assignment	08 sessions
Macroeconomic issues and concepts – The Circular Flow of Income – Concepts of National Income and its Measurement Business Cycle Indicators – Leading – Lagging – Coincident Indicators Output & Income: Income generated from this production, including wages, salaries, profits, and rent. Employment & Unemployment: factors that influence unemployment rates, such as labor market dynamics, economic growth, and government policies Inflation & Deflation: meaning, Types - Consumer Price Index – Wholesale Price Index – Index of Industrial Production (IIP), impact on purchasing power and economic stability. National Income Estimation process: Gross National Savings – Gross Capital Formation– Gross domestic Product – Gross National Income – Gross National Product – Net Domestic Product- Net Domestic Income – Net National Income – National Income			
Targeted Application & Tools that can be used:			
Case Study Analysis – Application of demand forecasting, pricing strategies, and production decisions in real companies.			
Quantitative Tools – Regression analysis, break-even analysis, cost-volume-profit analysis, decision trees, and elasticity measurement.			
Forecasting Software / Tools – Excel, SPSS, R, or other statistical packages for demand forecasting and data analysis.			
Simulation Exercises – Market structure simulations (monopoly, oligopoly pricing decisions) to understand competitive behavior.			
Business Reports & Presentations – Students prepare decision-focused reports analyzing cost structures, pricing policies, or market entry strategies.			
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course			
Project/ Assignment:			
(Participative learning)			
1. Assessment 1 – Quiz (Module 1: Introduction to Managerial Economics)			

Short quiz on core concepts: scarcity, opportunity cost, marginal analysis, and role of managerial economics in decision-making.
Objective: Test foundational understanding.
2. Assessment 2 – Assignment (Module 2: Demand and Forecasting)
Assignment: Select a product/service and prepare a demand forecast using secondary data. Apply elasticity concepts and discuss managerial implications.
Objective: Apply demand analysis tools to a practical scenario.
3. Assessment 3 – Case Study (Module 3: Production and Cost Analysis)
Case study: Analyze cost structures of a manufacturing/service firm. Identify fixed vs. variable costs, apply break-even analysis, and suggest ways to reduce costs.
Objective: Strengthen decision-making based on production and cost analysis.
4. Assessment 4 – Project/Report Writing (Module 4: Market Structures and Pricing Decisions)
Project: Study an industry (e.g., telecom, airlines, e-commerce) and analyze its market structure. Evaluate pricing strategies used by leading firms and recommend an optimal strategy.
Objective: Integrate concepts of market structure, pricing, and government policies into a real-world context.
Text Books:
T1 – Paul G. Keat & Philip K. Y. Young (2022). <i>Managerial Economics: Economic Tools for Business Decisions</i> (9th ed.). Pearson Education.
T2 – Varshney R. L. & Maheshwari K. L. (2021). <i>Managerial Economics</i> . Sultan Chand & Sons.
References:
R1. Truett, L. J., & Truett, D. B. (2004). <i>Managerial economics: Analysis, problems, cases</i> (8th ed.). New Jersey: John Wiley & Sons.
R2. Samuelson, W. F., & Marks, S. G. (2019). <i>Managerial economics</i> (9th ed.). Hoboken, NJ: Wiley.
Research and Articles:
1. “The elasticity of demand and its role in consumer behaviour determination: A comparative analysis of Europe and the USA”. <i>Scientific Bulletin of Mukachevo State University, Series 'Economics'</i> (2024)
Examines how price elasticity varies across products like oil, milk, and chicken in Europe and the U.S., offering insights into consumer behavior and managerial pricing decisions.
Access via ResearchGate: ResearchGate
2. “The Impact of Big Data on Economic Forecasting and Policy Making” <i>EAJournals.org</i> , 2022
Explores how big data enhances forecasting accuracy and supports strategic decision-making—essential for Module 2 on demand forecasting.
Read more: EA Journals
3. “Sustainable Competitive Advantage in Emerging Markets: Innovations and Strategies”
<i>Gurpreet Singh & Sandeep Vij (2020)</i> . Discusses tailored strategies enabling firms in emerging markets to maintain a competitive edge—helpful for understanding cost leadership and market positioning.
Access via ResearchGate: ResearchGate
4. “A Step-by-Step Guide to Real-Time Pricing”, <i>Harvard Business Review</i> , November–December 2023

Provides actionable insights into implementing AI-powered pricing models—highly relevant to Module 4’s focus on pricing strategies.	
Read the article: Harvard Business Review	
5. “The Future of Economic Forecasting with AI and Big Data Integration” <i>Charles James, ResearchGate (2024)</i> . Reviews how AI and unstructured data are revolutionizing forecasting methods—directly applicable to modern demand forecasting techniques.	
Access via ResearchGate: ResearchGate	
Catalogue prepared by	Dr. Bipasha Maity
Recommended by the Board of Studies on	BOS NO: 18 th held on 6th June 2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26 th and held on 25th July 2025

Course Code: MBA3090	Course Title: Production Operations and Logistics Management	L	T	P	C
		2	1	0	3
Version No.	2.0				
Course Pre-requisites	Nil				
Anti-requisites	Nil				
Course Description	This course provides an in-depth understanding of production operations and logistics management in business environments. Students will explore core operational processes, supply chain strategies, inventory management, and logistics optimization to enhance efficiency and profitability. Through real-world case studies and interactive learning methods, students will gain practical insights into managing production systems and designing effective logistics solutions, preparing them for strategic roles in operations management.				
Course Objective	This course is designed for SKILL DEVELOPMENT of the learner by using PROBLEM SOLVING techniques.				
Course Out Comes	Upon completing this course, students will be able to: 1. Apply problem-solving strategies to improve production workflows 2. Analyze production and logistics challenges using key operational theories. 3. Evaluate supply chain performance with industry-specific metrics. 4. Develop efficient logistics solutions that optimize cost and resources				
Course Content:					
Module 1	Introduction to Production Operations	Assessment 1 - Quiz			11 Hours
This module lays the foundation for understanding production systems and operations management. Students will explore:					

- Types of Production Systems – Job production, batch production, mass production, and continuous production. - Operations Strategy – Aligning production processes with business goals. - Productivity and Efficiency – Techniques to measure and improve performance. - Technology in Operations – Role of automation, robotics, and AI in modern production.			
Module 2	Supply Chain and Inventory Management	Assessment 2 – Case Study	11 Hours
This module delves into supply chain dynamics and inventory control methods to optimize operations. Topics include: - Demand Forecasting – Methods like time series analysis and regression models. - Inventory Management – Economic Order Quantity (EOQ), Just-In-Time (JIT), and Vendor-Managed Inventory (VMI). - Lean & Agile Supply Chains – Strategies for minimizing waste and improving responsiveness. - Supply Chain Risk Management – Handling disruptions and building resilient networks.			
Module 3	Logistics and Distribution Strategies	Assessment 3 – Case Analysis	11 Hours
In this module, students will explore efficient logistics models to ensure seamless flow of goods and services. Key areas include: - Transportation Modes – Road, rail, air, and sea; comparative advantages. - Network Optimization – Designing distribution channels for cost and service efficiency. - Warehouse Management – Layout design, automation, and performance metrics. - Technological Advancements – Blockchain, IoT, and AI-driven logistics solutions.			
Module 4	Optimization in Production and Logistics	Assessment 4 – Mini Project Students will work on a mini-project, applying optimization techniques to solve a production or logistics problem in a real-world scenario.	12 Hours
This module focuses on improving operations using analytical tools and emerging trends. Topics covered: - Process Improvement Methodologies – Six Sigma, Kaizen, and Total Quality Management (TQM). - Data-Driven Decision Making – Using analytics for production planning. - Sustainability in Logistics – Green supply chain initiatives and carbon footprint reduction. - Future of Operations Management – AI, predictive modelling, and smart factories.			
Targeted Application & Tools that can be used: Project work/Assignment: Students will develop a logistics optimization model for a real-world business case, integrating production efficiency techniques			
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course			
Web Resources: - Supply Chain Digital: www.supplychaindigital.com - Logistics Management Magazine: www.logisticsmgmt.com - MIT Supply Chain Research: www.mit.edu/supplychain Sample Data Set: Real-time industry data on supply chain optimization and logistics modelling will be provided for case study analysis.			
Text Book: Chopra, S., & Meindl, P. (2021). <i>Supply Chain Management: Strategy, Planning, and Operations</i>. Pearson.			
References: Russell, R.S., & Taylor, B.W. (2020). <i>Operations Management: Creating Value Along the Supply Chain</i>. Wiley.			

• Christopher, M. (2016). <i>Logistics and Supply Chain Management</i> . Pearson.					
Catalogue prepared by	Shivaprasad S				
Recommended by the Board of Studies on	BOS NO: 18 th held on 6th June 2025				
Date of Approval by the Academic Council	Academic Council Meeting No. 26 th and held on 25th July 2025				
Course Code: MKT4111	Course Title: Marketing Management – Theories & Practices	L	T	P	C
		2	1	0	3
Version No.	1.0				
Course Pre-requisites	Nil				
Anti-requisites	Nil				
Course Description	This course intends to provide the student with necessary knowledge and skills to excel in the field of marketing. This course explores the five philosophies applied in this digital era: along with the marketing mix - product development, pricing strategies, promotion, and distribution channels. The theoretical concepts are applied to understand and solve the marketing challenges through a combination of lectures, case studies, and hands-on exercises is expected to provide students the essential skills in marketing. On completion of this course students would have acquired the capacity to critically think, identify marketing issues, draft marketing plans, draw data-driven decisions.				
Course Objective	This course is designed to improve the learners Skill Development by using Participation techniques.				
Course Out Comes	On successful completion of the course the students shall be able to: CO 1: Illustrate the importance of Marketing management and consumer behaviour for Segmentation, Targeting & Positioning decisions. (Understand) CO 2: Develop Product launching strategies. (Apply) CO 3: Examine the significance of appropriate pricing & distribution decisions for product success. (Analyze) CO 4: Evaluate the right use of promotion & technology for realizing a positive ROI. (Evaluate)				
Course Content:					
Module 1	Concepts of Marketing	Assignment using E Library (Participative Learning)	Assessment 1 - Quiz	12 Sessions	
Topics: Concept of Marketing, Needs, Wants and Demand, Nature & Importance of Marketing, 5 Philosophies of Marketing Management , Marketing Mix, Marketing Environment – Macro and Micro Environment. Factors influencing Consumer Behaviour, Consumer Buying Decision Process, Market Segmentation and Bases of segmentation, Targeting Strategies, Concept of Positioning.					

Module 2	Product	Assignment (Participative Learning)	Assessment 2 – Assignment	09 Sessions
Topics: Product – Meaning, Product Mix – Product Line, Length and Depth, Product Line Analysis & Decisions, New Product Development - Product Life Cycle (PLC) – PLC Strategies, Product vs. Brand, Benefits of Branding, Brand Equity, Fifth 'P' - Packaging and Labelling.				
Module 3	Price & Place	Case study (Participative Learning)	Assessment 3 – Case Analysis	12 Sessions
Topics: Pricing – Importance of Pricing, Setting the Price, Pricing Objectives, and Steps in Pricing, Types of Pricing. Practice exercises in pricing. Place - Marketing Channels and their roles, Functions of a channel partner, Types of channels, Levels, Channel Design decisions, Channel Conflict: Reasons and resolution.				
Module 4	Promotion & Technology	Assignment (Participative Learning)	Assessment 4 – Mini Project	12 Sessions
Topics: Promotion Mix - Advertising, Sales Promotion, Events & Experiences, Direct Marketing and Public Relations & Publicity, Personal Selling – Pros & Cons. Integrated Marketing Communications (IMC) – Traditional & Digital media, social media - Steps in Promotional Planning - Media Planning, Budgeting, Ad Campaign development. Managing consumer journey & experiences using technology – concepts & use cases.				
Project work/Assignment: Module 1 Sample Assignment 1: Project Work: Collect Advertisements (from Newspapers) pertaining to the various forms of Segmentation, classify them, and make a presentation, with appropriate justification. Module 2 -Sample Assignment 2: Identify 5 products / brands which are in the different Life Cycle Stages of PLC and suggest appropriate Marketing strategies for them. Module 3 - Sample Assignment: Analyze the difference in Distribution channels - FMCG versus / Consumer durables / Services Module 4 - Sample Assignment : Identify the Digital and Social Media Marketing strategies adopted by any company of your choice.				
Web Resources: (Kindly note: Student should visit PU library and access the online resources for the same and incorporate in the assignments) Research Articles in Journals - The Impact of Market Environments on Marketing Relationships https://www.researchgate.net/publication/257206982_The_Impact_of_Market_Environments_on_Marketing_Relationships - PLC strategies of Amul https://mentormecareers.com/product-life-cycle-of-amul/?srsltid=AfmBOopV3fmKT77X3eO6bsuYHJ9jNieKliMIRYM1Rhg5hwqT1JFrRYg - Ranjan Bandyopadhyay, Bipithalal Balakrishnan Nair, "Marketing Kerala in India as God's Own Country! for tourists' spiritual transformation, rejuvenation and well-being", Journal of Destination Marketing & Management, Volume 14. https://www.sciencedirect.com/science/article/abs/pii/S2212571X18303779 <u>HUL Integrated Annual Report 2024-25</u>				

<https://www.hul.co.in/files/hul-integrated-annual-report-2024-25.pdf>

Case Studies:

- The Coca-Cola brand positioning strategy, segmentation and targeting
<https://fabrikbrands.com/branding-matters/brand-strategy/coca-cola-brand-positioning-strategy-segmentation-and-targeting/>
- Nestle' Maggi: Pricing and repositioning a recalled product
<https://www.scribd.com/document/406890984/Group-6-Nestle-s-Maggi-Pricing-repositioning-a-recalled-product-docx>
- Tourism Promotion through the Internet (Websites): (Jordan as a Case Study)
https://www.researchgate.net/publication/228414318_Tourism_Promotion_through_the_Internet_Websites_Jordan_as_a_Case_Study
- Cybermediation in Auto Distribution: Channel Dynamics and Conflicts
<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1083-6101.2000.tb00347.x>
- Understanding Customer Experience Throughout the Customer Journey
<https://www.jstor.org/stable/44134974?refreqid=fastly-default%3Aafda1f1b4caed3bf330641c66c9d6444&seq=3>

Videos:

- Marketing Management – Core concepts
<https://youtu.be/65MQnEMf-ul?si=go-RM8wy59QTba0T>
- Understanding the Marketing Mix
<https://www.youtube.com/watch?v=d0NMSqeKpVs>
- Product Life Cycle
<https://www.youtube.com/watch?v=GjQRON8LF9g>

Text Book

T1: Philip Kotler, Kevin Lane Keller, Alexander Chernav. (2022). Marketing Management. Pearson Education. 16th edition.

References

R1: David A. Aaker and Christine Moorman. (2023). Strategic Market Management. Wiley Publisher. 12th edition.

R2: Tapan K. Panda. (2022). Marketing Management: Text and Cases. Taxmann Publications. 3rd Edition.

Catalogue prepared by	Dr. Mohamad Imrozuddin
Recommended by the Board of Studies on	BOS NO: 18th held on 6th June 2025
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2nd Semester

Course Code: QNT4114	Course Title: Applied Data Analysis and Visualization	L – T – P – C	1 – 1 – 2 – 3	
Version No.	1.0			
Course Pre-requisites	NIL			
Course Description	This course introduces students to applied data analysis using spreadsheets and visualization tools to support managerial decision-making. It emphasizes the use of formulae, functions, pivot tables, and dashboards to analyze and interpret business data. Students will learn to apply statistical and financial techniques for forecasting, reporting, and optimization. The course integrates practical lab exercises with real-world datasets to build problem-solving skills. By the end, students will be able to create effective visualizations and analytical models for business impact.			
Course Outcomes	On successful completion of this course the students shall be able to: • CO1: <i>Apply</i> spreadsheet operations to manage, format, and organize business datasets for effective analysis. • CO2: <i>Analyze</i> business problems using formulas and functions to derive insights from quantitative and qualitative data. • CO3: <i>Evaluate</i> data through advanced charts, pivot tables, and dashboards to support informed managerial decision-making. • CO4: <i>Create</i> business solutions by integrating advanced Excel tools (Power Query, PowerPivot, VBA) to design models for forecasting and analytics applications.			
Course Objective:	To develop students’ ability to apply data analysis and visualization techniques using spreadsheets and advanced Excel tools for effective problem-solving and data-driven business decision-making.			
Module 1	Introduction to Data Analysis and Spreadsheets	Lecture, Lab	Apply	15 hrs
Introduction to data analysis, introduction to spreadsheets and excel, entering and editing worksheet data, performing basic worksheet operations, working with excel ranges and tables, formatting worksheets.				
Module 2	Formulae and Functions	Lecture, Lab	Analyze	15 hrs
Introducing formulae and functions, formulae for mathematical and text operations, formulae for handling dates and time, formulae for matching and lookup, formulae for statistical analysis, formulae for financial analysis, array formulas, error-free formulae.				
Module 3	Data Visualization, Management and Analysis	Lecture, Lab	Evaluate	15 hrs
Getting started with excel charts, creating sparkline graphics, advanced charting techniques, dashboarding and implementing excel dashboarding best practices, introducing pivot tables and pivot charts, analyzing data with pivot tables, analyzing data using goal seeking and solver, analyzing data with the analysis tool pack.				

Module 4	Applying analytics to achieve Business impact	Lecture, Lab	Create	15 hrs
Introduction to PowerPivot and power query, business application of power pivot and query, automating excel using VBA, business application of VBA, business data management applications, customer analytics applications, demand forecasting applications, capstone project				
Targeted Application & Tools that can be used: Microsoft Excel				
Project work/Assignment:				
• Quiz (Module 1: Introduction to Data Analysis and Spreadsheets) Students will take a quiz on Excel basics, worksheet operations, ranges, and data formatting. • Individual Assignment (Module 2: Formulae and Functions) Apply formulas and functions (mathematical, text, statistical, lookup, financial) on a given dataset to perform meaningful analysis and submit a written assignment with results. • Case Study (Module 3: Data Visualization, Management and Analysis) Analyze a business case dataset using PivotTables, charts, and dashboards. Identify patterns, trends, and provide managerial insights through visualization. • Project / Report Writing (Module 4: Applying Analytics to Achieve Business Impact) Capstone group project: Develop an Excel dashboard integrating Power Query, PowerPivot, Solver, or VBA. Submit a report demonstrating how the solution can support decision-making in business areas such as sales, HR, marketing, or finance.				
• Text Books:				
• T1. Mount, G. (2024). <i>Modern data analytics in Excel</i>. Wiley. • T2 Fortino, A. (2024). <i>Data visualization for business decisions</i>. Packt Publishing.				
References: 1. R1: McKinney, W. (2022). <i>Python for data analysis: Data wrangling with pandas, NumPy, and Jupyter</i> (3rd ed.). O'Reilly Media. 2. R2: Gibson, G. (2024). <i>Essential data science and analytics with R and Python</i>. Springer. 3. R3: Arab, I. (2024). <i>Marketing analytics dashboards design</i>. Routledge. 4. R4: Castro, L. N. de. (2025). <i>Exploratory data analysis: Descriptive analysis, visualization, and dashboard design</i>, Taylor & Francis. 5. Baley, I., & Veldkamp, L. (2025). <i>The data economy: Tools and applications</i>. Princeton University Press.				
Web pages 1. https://sites.google.com/view/narayanasrikanthreddy/home/student-home-page/mba-1st-sem 2. https://support.microsoft.com/en-gb/office/keyboard-shortcuts-in-excel-1798d9d5-842a-42b8-9c99-9b7213f0040f 3. https://www.linkedin.com/pulse/data-analysis-project-excel-dashboard-anusha-srivastava				
PU library E –resource https://www.sciencedirect-com-presiuniv.knimbus.com/journal/journal-of-computational-mathematics-and-data-science				

Catalogue prepared by	Dr. Varalakshmi Dandu
Recommended by the Board of Studies on	BOS NO: 18 th held on 6 th June 2025
Date of Approval by the Academic Council	26 th Academic Council Meeting held on 25 th July 2025

Course Code: GMM4119	Course Title: Business Research Methods Type of Course: School Core & Theory only		L-T- P-C	2	1	0	3
Version No.	1.0						
Course Pre-requisites	Business Statistics (MBA 1007)						
Anti-requisites	NIL						
Course Description	Business Research Methods provides the theoretical and practical framework to conduct research in Business. It consists of modules, which cover the fundamentals of the Business Research Process. The course enables discussion on different research designs that would be appropriate in different business scenarios. The data analysis sections deals with the relevant statistical tools required to analyze the data which would help in effective decision making.						
Course Outcomes	On successful completion of the course, the students shall be able to: 1. Apply the relevant business research methods for solving business research problems. [Application Level] 2. Use appropriate data collection methods to carry out business research. [Application Level] 3. Employ suitable measurement techniques and sampling designs to elicit data. [Application Level] 4. Analyze the data using appropriate statistical tools. [Analysis Level]						
Course Objectives	Objective of this course is to enhance Skill Development using Experiential Learning methods.						
Course Content:							
Module 1	Introduction to Business Research Methods	Assignment	Review Literature	9 Hours			
Topics: Role of business research – applied and basic business research – managerial value of business research. Theory building – research concepts, constructs, propositions, variables and hypotheses – the scientific method of conducting research. The business research process – types of business research – exploratory, descriptive and causal. Stages in the research process. Review of literature. Problem definition process, research objectives, questions and hypotheses. The research proposal.							
Module 2	Data Collection Methods and Qualitative Research	Mini-Project	Data Collection and Data Analysis	12 Hours			
Topics: Primary data – survey research – errors in survey research – survey research methods. Personal interviews – telephone interviews – self-administered questionnaires. Observation methods. Secondary data							

advantages, disadvantages and sources. Qualitative research – uses, orientations to qualitative research. Techniques in qualitative research – Focus group interview, depth interviews. Conversations, semi-structured interviews				
Module 3	Measurement Concepts, Questionnaire design and Sampling	Assignment	Conceptual Knowledge	12 Hours
Topics: Introduction – variables – constructs - measurement scales – nominal, ordinal, interval and ratio. Criteria for good measurement – reliability and validity. Attitude measurement – attitude rating scales – Likert scale, semantic differential. Measuring behavioral intention – ranking, sorting. Questionnaire design – Basic considerations – wording questions – guidelines for constructing questions – questionnaire layout – pretesting and revision. Sampling – population, sample, sampling frame, sampling units, sampling and non – sampling errors. Non – probability sampling – convenience, judgment, quota and snowball sampling. Probability sampling – simple random sampling, systematic sampling, stratified sampling.				
Module 4	Data Analysis and report writing	Mini-project	Data Analysis	12 Hours
Topics: Testing of hypothesis – test for two means – known variances and unknown but equal variances, paired t test, test for two proportions. Chi square test for independence of attributes. Introduction to multivariate data analysis. Report writing – report format – parts of the report.				
Targeted Application & Tools that can be used: Business research methods is applied to different areas of the management. The broad areas of applications are marketing research, financial markets, behavioural economics, human resources, etc. & Professionally Used Software: MS-Excel/SPSS/Minitab/R				
Project work/Assignment:				
Project/Assignment: Mini-Project on the primary or secondary data collection techniques for the application of suitable statistical models. Assignment 1: Students are required to write a Literature Review Assignment based on any two to three related literature on their research topic of interest. Assignment 2: Students are required to construct the Questionnaire in align with the Problem identification/Research questions and Hypothesis formulation on their research topic of interest. Assignment 3: Written Assignment/Quiz on Research Process or Sampling techniques.				
Text Books 1. Zikmund, W. G., Babin, B. J., Carr, J.C. & Griffin, M., Business Research Methods: A South Asian Perspective. Delhi: Cengage Learning, Edition 9, 2012.				
References 1. Kothari, C. R. & Garg, G. Research Methodology, Methods and Techniques. New Age International Publishers, Multi-Colour Edition, 2019. 2. Anderson, Sweeney, Williams, Camm and Cochran. Statistics for Business and Economics. Delhi: Cengage Learning., 2016.				
Catalogue prepared by	Dr. Jayakrishna Udupa H			
Recommended by the Board of Studies on	BOS NO:			
Date of Approval by the Academic Council	Academic Council Meeting			

Course Code: QNT4115	Course Title: Fundamentals of Business Analytics Type of Course: Program Core Theory & Practical Course		L	T	P	C
			1	0	2	2
Version No.	1.0					
Course Pre-requisites	QNT4111Applied Business Statistics					
Anti-requisites						
Course Description	This course introduces students to the fundamentals of Business Analytics and its role in data-driven decision making. It covers key analytics concepts, types of analytics, business data and metrics, descriptive, diagnostic, and introductory predictive analytics, along with practical applications across business functions. The course emphasizes real-world business problem solving using analytical thinking and interpretation.					
Course Outcomes	CO1	Explain the fundamentals, types, and lifecycle of Business Analytics				
	CO2	Identify and classify business problems using appropriate analytics approaches				
	CO3	Analyze business data using various types of analytics techniques				
Course Objective	The course aims to develop students’ ability to apply descriptive and diagnostic analytics techniques to real-world business problems while providing conceptual exposure to predictive analytics and forecasting methods. Additionally, it demonstrates how analytics is applied across major business functions such as marketing, finance, human resources, and operations to support data-driven managerial decisions.					
Module 1	Introduction to Business Analytics		Assignment using E Library (Participative Learning)			6 Hours
Evolution of data-driven decision making, What is Business Analytics?, Difference between Business Intelligence and Business Analytics, Types of Analytics, Descriptive Analytics, Diagnostic Analytics, Predictive Analytics, Prescriptive Analytics, Analytics lifecycle and workflow, Role of analytics in competitive advantage						
Module 2	Data, Types, and Business Metrics		Class Activity (Participative Learning)			6 Hours
Understanding business data, Types of data: Structured, semi-structured, unstructured, Qualitative vs quantitative data, Scales of measurement, Data quality issues and data preparation basics, Introduction to Key Performance Indicators (KPIs), Business metrics and dashboards						
Module 3			Project (Experiential Learning)			6 Hours
Descriptive analytics techniques, Summary statistics for business data, Data aggregation and comparison, Trend and variance analysis, Root cause analysis, Introduction to exploratory data analysis (EDA)						
Module 4			Hands-on with Tools			6 Hours
What is predictive analytics?, Predictive modeling concepts, Correlation and regression (conceptual understanding), Forecasting fundamentals, Assumptions and limitations of predictive analytics						
Module 5			Class activity + Quiz			6 Hours

Marketing analytics (customer segmentation, churn, campaign analysis), Financial analytics (profitability, budgeting, risk basics), Operations and supply chain analytics, Human resource analytics, Ethics and challenges in business analytics

Targeted Application & Tools that can be used: Microsoft Excel, Google Sheets, Kaggle Datasets

Project work/Assignment:

Assignment 1: Module 1– Quiz
Assignment 2: Module 2 - Written Assignment
Assignment 3: Module 3 - Case study in
Assignment 4: Module 4 - Project Work

Text Book:

T1: Evans, J. R. (2022). *Business Analytics: Methods, Models, and Decisions*. Pearson Education.

Reference Books:

R1: Prasad, R. N., & Acharya, S. (2016). *Fundamentals of business analytics* (2nd ed.). Wiley.

R2: Jaggia, S., Lertwachara, K., Kelly, A., Chen, L., & Guha, A. (2023). *Business analytics: Communicating with numbers* (2nd ed.). McGraw Hill.

R3: Albright, S. C., & Winston, W. L. (2015). *Business analytics: Data analysis & decision making* (7th ed.). Cengage Learning.

Online Resources:

- Presidency University Digital Library
<https://presiuniv.knimbus.com/user#/home>
- Kaggle Datasets
- IBM Analytics Learning Resources

Research Articles:

1. Davenport, T. H., & Bean, R. (2023). Big data and AI-driven analytics: Transforming decision-making in organizations. *MIT Sloan Management Review*, 64(4), 1–9.
2. Sharda, R., Delen, D., & Turban, E. (2024). Business analytics and data-driven decision making: A managerial perspective. *Decision Support Systems*, 176, 114021. <https://doi.org/10.1016/j.dss.2023.114021>.
3. Wamba, S. F., Queiroz, M. M., Trinchera, L., & Fox, G. (2023). Big data analytics capability and business performance: A systematic review and research agenda. *International Journal of Information Management*, 68, 102591. <https://doi.org/10.1016/j.ijinfomgt.2022.102591>

Multimedia (Videos):

Case Studies:

- Walmart – Data-driven Inventory Management - <https://superagi.com/real-time-data-enrichment-case-studies-success-stories-from-netflix-uber-and-walmart/>
- Netflix – Analytics-driven Content Recommendation - <https://www.studocu.com/in/document/university-of-mumbai/big-data-analytics/bda-sem-7-tech-neo/108902115>

- Amazon – Customer Analytics and Personalization - https://www.ithy.com/article/retail-analytics-implementation-case-studies-2693nh4p - Uber – Demand Forecasting and Dynamic Pricing - https://ithy.com/article/analytics-case-studies-9hawx3lg.	
Catalogue prepared by	Dr. P. Mary Jeyanthi & Dr. Varalakshmi Dandu
Recommended by the Board of Studies on	
Date of Approval by the Academic Council	

Course Code: MKT4113	Course Title: Digital Marketing	L-T- P- C	2	1	0	3
	Type of Course: Program Core Theory Only Course					
Version No.	1.0					
Course Pre-requisites	Marketing Management MS Office Social Media exposure					
Anti-requisites	NIL					
Course Description	Digital media is hip and happening. This course is for students who wish to learn digital marketing in a short time frame. The course will enable digital marketers to prepare digital marketing strategy. It will also provide an opportunity to understand the tools and techniques and hence the 'how' of digital marketing. This course will give a panoramic view of various digital and social media marketing mediums that businesses can use for escalating growth. It will give deep insights into the art and science of search engine optimization, search engine marketing, social media marketing, Email marketing & Mobile marketing. It will enable deep understanding of key social media such as Facebook, Instagram, LinkedIn, YouTube, Google+, Blogs and Twitter. This course will give insights into how to increase engagement, leads and conversions. The highlight of the course is that participants get to run live campaigns in groups and hence learn by doing. The course provides a good blend of strategy as well as execution.					
Course Outcomes	On successful completion of this course the students shall be able to: CO 1) Explain the functioning of a Search Engine and the importance of Search Engine Optimization (Comprehension) CO 2) Apply the concept of Search Engine Marketing in creating a digital Ad Campaign (Application) CO 3) Illustrate the use of social media in effective digital marketing campaign (Application)					

	CO 4) Identify the opportunities of email and Mobile Marketing to leverage the power of mobile devices (Application)			
Course Objective:	The course aims at SKILL DEVELOPMENT with respect to Marketing Strategies with PARTICIPATIVE learning activities.			
Module 1	Search Engine Optimization (SEO)	Assignment using E Library (Participative Learning)	Article: Global Marketing for the Digital Age	15 Hours
Topics: Introduction to Digital Marketing, Importance of Search Engine, How Search Engine works, Web Crawler / Spider, Search Engine Algorithm (Page Rank Algorithm), Understanding the SERP, Organic Search Results and SEO, Keywords - Keyword Theory and Research, Choosing the Right Keywords, Keyword Research Tools, SEO Process, On-Page and Off-Page Optimization.				
Module 2	SEM and DDA	Assignment (Participative Learning)	Case Study - Pepperfry.com: Marketing to Manage Customer Experience	15 Hours
Topics: Introduction to Search Engine Marketing (SEM), Pay per Click (PPC) – Key Concepts, Benefits, Goals, and Google Ad Words ranking formula, SEO vs. SEM, Google Ad Words Account & Campaign, Keyword match types. Digital Display Advertising (DDA): Platforms, DDA Terminologies, DDA Key Stakeholders and Digital Ad Creation Process, Types of Display Ads, Remarketing.				
Module 3	Social Media Marketing	Project (Experiential Learning)	Promote a Business Page in Social Media	10 Hours
Topics: Social Media Marketing – Introduction, Classification of Social Media Tools, Importance, Media Types and three key players, Social Media Channels (Facebook, LinkedIn, Twitter, YouTube, Google+), Blogs, Social Media goals. Approaches to Social Media Marketing – Implementation – Listening, Pages, Publishing, Events, Groups, Jobs, Advertising.				
Module 4	Email & Mobile Marketing	Assignment (Participative Learning)	Case Study - The Vanca: Reworking Digital Marketing Strategy	5 Hours
Topics: Email Marketing – Definition, four stage process, Database & Subscriber Management, Design and Delivery of email, Tools. Mobile Marketing: Opportunities, Challenges, Desktop Websites vs. Mobile Website, Characteristics of effective mobile sites, Advantages of Mobile Sites and Mobile Apps, Advantages of Mobile Apps, SMS Marketing, and SMS Campaign Development Process. Introduction to Affiliate and Content Marketing.				
Targeted Application & Tools that can be used: NA				
Project work/Assignment:				
Project Work: Create a dummy company of any product / service of your choice and use the various social media marketing platforms to promote it. Assignment 1: Marketing Innovation Strategies: Interactive Learning along with a live group project. Assignment 2: Identify the Digital and Social Media Marketing strategies adopted by any company of your choice.				

Text Book:	
T1: The Art of Digital Marketing by Ian Dodson of Digital Marketing Institute.	
T2: Puneet Singh Bhatia; Fundamentals of Digital Marketing, Pearson	
References	
R1: The Google Story by David A. Vise, Pan	
R2: Social Media Marketing by Tracy Tuten and Michael Solomon, Sage, 2015	
Online Resources:	
https://presiuniv.knimbus.com/user#/home	
Articles:	
Tse, A. (2000), "Strategic Marketing for the Digital Age", Journal of Consumer Marketing, Vol. 17 No. 4, pp. 358-372. Link: https://www-emerald-com-presiuniv.knimbus.com/insight/content/doi/10.1108/jcm.2000.17.4.358.1/full/html	
Fortin, D.R. (2000), "Global Marketing for the Digital Age", Journal of Consumer Marketing, Vol. 17 No. 4, pp. 358-372. Link: https://www-emerald-com-presiuniv.knimbus.com/insight/content/doi/10.1108/jcm.2000.17.4.358.2/full/html	
Alsukaini, A.K.M., Sumra, K., Khan, R. and Awan, T.M. (2022), "New trends in digital marketing emergence during pandemic times", International Journal of Innovation Science, Vol. ahead-of-print No. ahead-of-print. Link: https://www-emerald-com-presiuniv.knimbus.com/insight/content/doi/10.1108/IJIS-08-2021-0139/full/html	
Multimedia (Videos):	
Digital Marketing and You – TED Talk by Ankit Srivastava https://www.youtube.com/embed/cBA-itmpR84	
Social Media Marketing for Small Business https://www.youtube.com/embed/wtZWt4YzQPU	
Case Studies:	
The Vanca: Reworking Digital Marketing Strategy By: Jones Mathew; Banasree Dey, Indisn School of Business (ISB), Link: https://hbsp.harvard.edu/download?url=%2Fcatalog%2Fsample%2FW17158-PDF-ENG%2Fcontent&metadata=e30%3D	
GiveIndia: On the Net for a Cause By: Sanjeev Tripathi, Shashank Bhasker, Indian School of Business (ISB), Link: https://hbsp.harvard.edu/download?url=%2Fcatalog%2Fsample%2FW16048-PDF-ENG%2Fcontent&metadata=e30%3D	
Pepperfry.com: Marketing to Manage Customer Experience By: Gaganpreet Singh; Sandeep Puri; Sanjit Kumar Roy, Ivey Publishing, Link: https://hbsp.harvard.edu/download?url=%2Fcatalog%2Fsample%2FW17332-PDF-ENG%2Fcontent&metadata=e30%3D	
Radio Mirchi: Marketing Strategy for the Bangalore Market By: Anand Kumar Jaiswal, IIM-Ahmedabad, Link: https://hbsp.harvard.edu/download?url=%2Fcatalog%2Fsample%2FA00108-PDF-ENG%2Fcontent&metadata=e30%3D	
Maruti Suzuki India Limited: Marketing By: Dr. Sanjeev Prashar, Richard Ivey School of Business, Link: https://hbsp.harvard.edu/download?url=%2Fcatalog%2Fsample%2FW13012-PDF-ENG%2Fcontent&metadata=e30%3D	
Catalogue prepared by	Dr. Chithambar Gupta V
Recommended by the Board of Studies on	BOS NO: held on

Date of Approval by the Academic Council	Academic Council Meeting No.
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Course Code: GMM4120	Course Title: Human Capital Management	L	T	P	C
	Type of Course: Program Core	2	1	0	3
Version No.	2.0				
Course Pre-requisites	NIL				
Anti-requisites	Nil				
Course Description	This course provides a comprehensive understanding of Human Capital Management with a strategic and practical orientation. It examines the evolution from traditional HRM to HCM, emphasizing workforce planning, talent acquisition, and the use of digital HR technologies. The course covers training and development, performance and potential management, and career growth practices to enhance employee capability. It also focuses on compensation management, employee retention, and attrition management in the Indian context. The course further introduces industrial relations, labour codes, dispute resolution mechanisms, and collective bargaining, enabling learners to manage employment relations effectively in contemporary organizations.				
Course Objective	This course is designed to improve the learners' EMPLOYABILITY SKILLS by using PARTICIPATIVE LEARNING techniques.				
Course Out Comes	CO1: Explain Human Capital Management concepts and digital HR practices to workforce planning and talent acquisition. (Blooms Level: Understand) CO2: Apply training, development, and performance management systems to improve employee capability. (Blooms Level: Apply) CO3: Implement compensation planning and retention strategies to reduce employee attrition. (Blooms Level: Apply)				

	CO4: Examine labour laws and industrial relations mechanisms in managing employment relations. (Blooms Level: Analyse)			
Course Content:				
Module 1	Introduction to HCM and Procuring Human Capital	Assessment	Quiz	12 Sessions
Topics: Introduction to Human Capital Management: Meaning, Scope, Importance, and Functions of HCM; Evolution from HRM to HCM; David Ulrich Model, Contemporary Trends – Workforce Diversity, Hybrid Work, Gig Workforce; Role of Digital HR – Social Media, Artificial Intelligence, Machine Learning, People Analytics, Metaverse, and Robotic Process Automation in HCM. Green HRM. Procuring Human Capital: Job Analysis – Meaning and Importance; Job Description and Job Specification; Human Resource Planning – Importance and Process; Talent Acquisition and Recruitment – Sources; Selection – Methods, Interviews, Tests, and Test Validity; Employee Orientation and Socialization.				
Module 2	Training, Development and Performance Management	Assessment	Report Writing	12 Sessions
Training and Development: Concept and Types of Training; Training Need Assessment; On-the-Job and Off-the-Job Training Methods; Executive Development; Job Crafting and Career Development. Performance and Potential Management: Objectives of Performance Management; Methods of Performance and Potential Appraisal; Post-Appraisal Feedback; Issues and Challenges in Performance Appraisal. . [Blooms level :Apply]				
Module 3	Compensation Management and Employee Retention	Assessment	Case Study Analysis	11 Sessions

Compensation Administration: Concept and Objectives of Compensation Planning; Strategic Role of Compensation in Human Capital Management; Job Evaluation Methods; Wage and Salary Surveys; Pay Structure and Compensation Components in India; Factors Influencing Compensation; Incentives and Variable Pay; Fringe Benefits and Employee Benefits.

Employees' Retention: Concept and Importance of Employee Retention; Employee Attrition – Meaning, Types, and Causes; Calculation of Attrition Rate; Impact of Attrition on Organizational Performance; Role of Engagement, Career Growth, Compensation, and Work-Life Balance in Managing Attrition; Retention Strategies.

[Blooms level :Apply]

Module 4	Industrial Relations and Labour Codes	Assessment	Group Presentation	10 Sessions
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Concept, objectives, industrial disputes, and changing employment relations in India. Labour Code framework with emphasis on the Industrial Relations Code—trade union recognition, strikes and lockouts, standing orders, and workforce flexibility. Industrial disputes settlement machinery: bipartite, conciliation, and adjudicatory mechanisms. Collective bargaining process and the evolving role of trade unions in the post-Labour Code environment.

[Blooms level: Analyse]

Targeted Application & Tools that can be used:

- Fundamental exposure to the qualitative and quantitative surveys techniques in: **People, Performance and HR Strategy.**
- Professionally Used Software: Microsoft excel, SPSS, R software, and qualitative techniques, Tableau, Microsoft Power BI, Skill Assessment Platforms.

Project work/Assignment: Mention the Type of Project /Assignment proposed for this course:

Assessment 1 – Quiz - Quiz related to the basic concepts HCM and Procuring Human Capital

Assessment 2 – Complete one online course given in the certification section of course plan and submit the certificate.

Assessment 3 - Case Study Analysis - Students to submit the case study analysis by selecting any one case out of 5 cases and answer the questions specific to that case and submit a poster presentation.

Assessment 4 – Group Presentation

Prepare a group presentation on the topic “Evaluating the Implications of the Industrial Relations Code, 2020 on Employer–Employee Relationships and Human Capital Management Practices in India.”

Text Books

T1: Dessler, G. (2023). Human resource management (17th ed.). Pearson Education.
– Comprehensive coverage of HCM foundations, talent acquisition, training, performance, compensation, and digital HR trends.

T2: Noe, R. A., Hollenbeck, J. R., Gerhart, B., & Wright, P. M. (2023). Human resource management: Gaining a competitive advantage (13th ed.). McGraw-Hill Education.
– Strategic HCM perspective covering performance management, development, retention, and competitive talent practices.

T3: Sengupta, A. (2024). Human resource management: Concepts, practices, and new paradigms (2nd ed.). Cengage Learning India.
– Indian context, updated with new HR paradigms, recruitment, performance, career management, diversity, and retention.

Reference Books

R1: Sharma, R. C., & Sharma, N. (2025). Human resource management: Concepts, theories and contemporary practices. Routledge India.

– Up-to-date theory and practices across HR functions, including workforce trends, acquisition, training, performance, compensation, and employee relations. (Routledge)

R2: Milkovich, G. T., Newman, J. M., Gerhart, B., & Nyberg, A. J. (2023). Compensation (14th ed.). McGraw-Hill Education.

– In-depth reference on compensation strategy, incentives, pay structures, and benefits aligned with Module 3.

R3: Monappa, A., Batra, G. S., & Chandra, P. (2023). Industrial relations and labour laws (6th ed.). McGraw-Hill Education India.

– Focused on India’s Labour Codes, industrial relations, dispute settlement, collective bargaining, and trade unions.

R4: Srivastava, S. C. (2026). Industrial relations and labour laws (9th ed.). Vikas Publishing House.

R5: Government of India. (2020). Industrial Relations Code, 2020 (updated ed. 2026). Taxmann.

Web Resources:

Web Links:

1. A review of performance measurement: Towards performance management

<https://puniversity.informaticsglobal.com:2282/ehost/detail/detail?vid=7&sid=41ff6170-e9b6-4fdc-bd4a-bb122d67f0f7%40redis&bdata=JnNpdGU9ZWWhvc3QtbGl2ZQ%3d%3d#AN=18259872&db=iiah>

2. <https://ocw.mit.edu/courses/15-660-strategic-hr-management-spring-2003/g/>

Related Articles:

1. **Impact of e-leadership and team dynamics on virtual team performance in a public organization** <https://www-emerald-com-presiuniv.knimbus.com/insight/content/doi/10.1108/IJPSM-08-2020-0218/full/html>

<https://www-emerald-com-presiuniv.knimbus.com/insight/content/doi/10.1108/IJPSM-08-2020-0218/full/html>

2. **Managing Diversity In The Workplace: Age, Language And Culture**

<https://www.forbes.com/sites/forbesbusinesscouncil/2021/08/12/managing-diversity-in-the-workplace-age-language-and-culture/?sh=32d35341e954>

3. Case Study: Apigee; People Management Practices and Challenge of growth. (Ivey Publishing-ISBN-H)

Book - References:

- Becker, B. E., & Huselid, M. A. (2021). High performance work systems and firm performance: A synthesis of research and managerial implications. In *The strategic human resource management sourcebook* (pp. 123–140). Oxford University Press.
- Schmidt, L. (2021). *Redefining HR: Transforming people teams to drive business performance*. Kogan Page.
- Madhani, P. M. (2024). *Strategic HR analytics: Driving business performance*. *ResearchGate*.
https://www.researchgate.net/publication/377208077_Strategic_HR_Analytics_Driving_Business_Performance
- People Strong. (2023). *Performance insights handbook*.
https://www.peoplestrong.com/sg/white_paper/performance-insights-handbook

Catalogue prepared by	Dr. Anni Arnav/ Associate Professor / School of Management
Recommended by the Board of Studies on	BOS NO: 18 th held on 6 th June 2025
Date of Approval by the Academic Council	26 th Academic Council Meeting held on 25 th July 2025

Course Code: GMM4117	Course Title: Corporate Finance Course: Program Core Theory only		L-T- P- C	3	10	4
Version No.						
Course Pre-requisites	Sound knowledge of Bank balance sheet and Basic mathematics.					
Anti-requisites	NIL					
Course Description	This course enables the students to understand the roles and responsibilities of financial managers in connection with investment, financing and dividend decisions. This course focuses on the various metrics of investment analysis, measurement of cost of capital, identifying the optimum capital structure, managing working capital, linkage between long- term and short-term source of finance, dividend distribution, company valuation and merger & acquisition. This course helps the students to understand how efficiently companies should manage their finance to enhance the company value.					
Course Outcomes	On successful completion of this course, the students shall be able to:					
Course Objective	1. Know the fundamentals of Finance 2. Analyze the basics of Time value & Capital budgeting Decisions 3. Apply to basic corporate financing decisions					
Course Content						
Module 1	Investment Decisions/Capital Budgeting		Experiential Learning	Lecture		15 Hours
	Time Value of money, Risk & Return, Investment criteria – Accounting Rate of return – Pay Back Period - Net present value –Internal Rate of Return – Profitability Index - Capital rationing - Capital investment process.					

Module 2	Securities Valuation and Cost of Capital	Experiential Learning	Lecture and Discussion	15 Hours
	Cost of capital – Cost of equity – Cost of Debt –Cost of Preference Shares – Cost of Retained Earnings- Securities Valuation: Equity and Bond Valuation- Discounted Dividend Model Approach-Project risk – valuation by certaintyequivalents - weighted average cost of capital – Adjusted present value.			
Module 3	Dividend Decisions and Pay- outs	Experiential Learning	Participative Learning	15 Hours
	Dividend policy and stock value: Factors influencing dividend policy – Dividend policy models: Traditional position-Miller and Modigliani position; Bonus Shares, Stock Splits, Bonus Shares, -Stock Repurchases-Financial Strategy for growth – Financial Distress – Corporate Restructuring.			
Module 4	Management of Working Capital	Experiential Learning	Lecture and Presentation	15 Hours
	Working Capital- Meaning, Need, Determinants - Working Capital Cycle - Estimation of working capital need – Working capital investment and financing policies – Cash management – Marketable securities management - Accounts Receivables management – Inventory management and financing.			
	Books 1. Corporate Finance, by Stephen A. Ross, Randolph W. Westerfield, Jeffrey Jaffe, Bradford D Jordan, Ram Kumar Kakani, 11e, The McGraw-Hill Education.			
	References 1. Principles of Corporate Finance, Richard A. Brealey, Stewart C. Myers, Franklin Allen & Pitabas Mohanty. 2. Fundamentals of Corporate Finance, Jonathan Berk, Peter Demarzo and Jarrad Harford, Pearson Publications.			

Course Code: FIN5112	Course Title: FinTech in Modern Finance Type of Course: Specialization Track Core	L- T- P- C	3	1	0	4
Version No.	1.0					
Course Pre-requisites	- Basic Communication - Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). - Knowledge of Managerial Activities					
Anti-requisites	NIL					
Course Description	This course is designed to provide students with an overview of Fintech, which is the intersection of finance and technology. Students will learn about the various types of financial technologies that are changing the way we interact with money and financial services. This course will cover the fundamental concepts and principles of Fintech, including digital payments, blockchain technology, crowdfunding, peer-to-peer lending, and robotics advisory.					

	The course will explore the impact of Fintech on traditional financial services and the opportunities and challenges it presents to financial institutions and their customers. The course will also cover the regulatory framework for Fintech and the role of government agencies in promoting innovation while ensuring consumer protection.			
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.			
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Explain Fintech and its history. CO2: Explain the various problems & challenges faced by customers, organizations & how fintech is leveraged to solve them. CO3: Use business models, strategies, frameworks, tools & technologies to transform banks & launch fintech. CO4: Describe the market trends, competition; build & manage new age digital products and assist to scale up businesses. CO5: Assess the relevance of Fintech & its reach in the future for further development of Financial Landscape.			
Course Content:				
Module 1	Introduction to Fintech	Case study	1. The Rise and Challenges of Buy-Now-Pay-Later (BNPL) & 2. Neobank Market Evolution and Consolidation	12 Sessions
Topics: Introduction to Fintech: Introduction to Fintech; Financial Technology, A Brief Background & History of Fintech, Evolution of Fintech, A Timeline & Journey Map, Rise of Fintech, Pillars, Drivers & Enablers of Fintech, Advantages & Risks associated with Fintech, Manpower Mapping and Fintech Professionals. Cracks in the BFSI World: Understanding the problems in the world of Banking, Finance, Insurance; Understanding of Assets and Liabilities in Banking, Understanding the lending journey of Banks and NBFCs, Payment Cycle, learning changes of NBFCs, Identifying Problem Statements, Challenges faced by organizations; Customer Pain points, Customer Experience Curves, Area & Sector wise analysis. Customer Behavior Transformation & Measuring CX: Defining customers, psychological impact, Disruptions in Customer Behavior, Customer 4.0, Mapping Customer Needs, An Overview of various CX Models and Frameworks, Defining Metrics, understanding customer acquisition onboarding journey, Measuring CX, CX Tools.				
Module 2	Disruptive Business Models	Case study	The Rise and Regulation of Cryptocurrency Markets	12 Sessions
Topics: Fintech Economics, Types of Business Models, Components of a Fintech Business, Business Model Canvas, Revenue Streams, Maximizing Revenues, Business Model Innovations, Fintech Ecosystem, Sector Wise Examples, Life Case Studies, Disruption in retail lending model, Disruption in Risk and Credit, Reducing turnaround time (TAT) for trade finance, Revenue streams. Disruptive Technology Trends: New age technologies, Overview of Disruptive Technologies, Technology Quadrant & Maps, Use Cases & Applications, used cases in Banks and NBFCs Finance, Understanding of Financial and alternative data points, Understanding of Machine Learning and regression. How Technologies are shaping up the world of Finance, Glimpse of the Horizon. Fintech Strategies:				

Introduction to Digital, Fintech & Technology Strategy, Fintech strategy in Risk Assessment, digitally managing portfolio, List of Strategic Frameworks & Models; Learning how to build strategies & frameworks, Tools used, Interpreting the Principles.				
Module 3	Disruptive Innovations	Case Study	1. Ant Financials' Super App Ecosystem 2. Tesla's Financial Services Innovation	12 Sessions
Topics: Defining & Understanding Innovations; Types of Innovations, Disruptive Innovations, Innovation Cycle - Phases, Metrics, Components, Value Networks, Value Propositions, Identifying the points of disruption, Understanding innovation in Asset and Liabilities, Open Innovations. Mobility X.X: Rise of Mobiles, Mobile Centric Ecosystem, understanding mobile banking, Access to alternate data points through mobile messages, understanding mobile to mobile payment, managing settlement of RTGS and NEFTs through mobile banking, Mobility X.X, Mobile Money, Mobile @ Heart of Finance, Revolutionizing Mobile driven value exchange and interactions, Personalization, Mobile based Businesses and Business Models, Future of Mobility. New Age Architectures: Introduction to Architectures, Types of Architecture, Architectural Frameworks, Platform Architecture, Digital Banking Architecture, Designing Principles, Components of Digital Architectures, Overview of Architectural Transformation.				
Module 4	Design Thinking	Case Study	1. Mint's Personal Finance Management Revolution & 2. JPMorgan Chase's Digital Transformation Journey	12 Sessions
Topics: Design Thinking: Define Design Thinking, Importance of Design Thinking, Design thinker's mindset, Phases in Design Thinking, Design Research Strategies, Meaning of Synthesis, Ideation and Prototyping Strategies, Design Thinking at Heart of Fintech Revolution. Building a Digital Age Bank: New age neo banks, Introduction to digital money, Vision of a future Bank, Introduction to Branchless and Paperless Banking, Introduction to robots in banks banking, Automating the lending journey, introducing chatbots via phone banking system, Rise & Integration of Alternate Banking, Embedded Finance, launching a Digital Bank, New Age Digital Banks, Understanding of Peer2Peer Lending (P2P) and its risk and limitations. World of Services & Platforms: Introduction to As-A-Service Banking, Banking as a Service, Banking as a Platform, Difference between BaaS & BaaP, API Based Banking, Fintech SaaS, HUAAS, Overview of Open Banking Architecture, Growth of Banks via BaaS, Payment via UPI and IMPS, Payment via digital money.				
Module 5	Product Management 1.0	Case Study	1. Stripe's API-First Product Strategy 2. Square's Hardware-Software Integration	12 Sessions

Topics: Defining a Product, Product Management, Role of a Product Manager (PM), Functions of a PM, Product Management Life Cycle, Phases in Product Management, Digital vs Traditional Products, Product Design to Product Launch. Designing a Product, Improving a Product, Useful Frameworks, Product Metrics, Product Management vs New Product Development, New Product Development Life Cycle – Idea Generation to MVP to Commercialization, Harnessing Growth. Blockchain: Introduction to blockchain, Application of block chain, Challenges faced by blockchain, Advantages and limitations, Use cases. Fintech Market & Landscape: Fintech Landscape, Start Up Ecosystems, Market Size, Various Fintech Hubs, Government Initiatives, Regulations, Market Potential, Global Fintech Ecosystem, Top Players, Accelerators, Marathons - Hackathons, POCs', Y-Combinators & Unicorns, Introduction to Cryptocurrency, Application of Cryptocurrency, Advantage and disadvantage of cryptocurrency.
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: 1. Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Financial Management Analysis. (Case Study Learning) 2. Assignment 2: The students will be divided into groups and group discussions will be done on the Design thinking and Fintech Innovation . (Participative Learning)
Reference Text book 1. "The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries" by Susanne Chishti and Janos Barberis - This book offers an overview of the Fintech landscape and covers a wide range of topics related to Fintech, including digital payments, blockchain technology, crowdfunding, and robo-advisory. 2. "The Rise of Fintech: Achieving the Benefits and Avoiding the Risks" by Susan L. Brooks and Kara M. Kockelman - This book explores the benefits and risks of Fintech and provides insights into the regulatory challenges facing the sector. 3. "Fintech and Financial Services: Initial Considerations" by International Monetary Fund - This book provides an overview of Fintech and its potential impact on financial services, including insights into the regulatory challenges and policy considerations.
Essential Reading/ Recommended Reading: https://www.bankersadda.com/wp-content/uploads/multisite/2023/03/04180552/Introduction-to-FinTech.pdf https://archive.org/details/introductiontofi0000free https://documents1.worldbank.org/curated/en/099450005162250110/pdf/P17300600228b70070914b0b5edf26e2f9f.pdf https://www.scribd.com/document/474723163/Introduction-to-FinTech PU Resources Mention at least two links from KNIMBUS portal E – Resources https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent& t=1725871399557 https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling& t=1725871551070

https://alison.com/course/fintech-applications-and-future-prospects?utm_source=bing&utm_medium=cpc&utm_campaign=531498933&utm_content=1348003793029632&utm_term=kwd-84251402798678:loc-90&msclkid=fb5b8e40d87e156f6307e60fe954a3d5#google_vignette

https://www.udemy.com/course/practice-exams-lean-six-sigma-black-belt/?utm_source=bing&utm_medium=udemyads&utm_campaign=BG-Search_DSA_Beta_Prof_Ia.EN_cc.India&campaigntype=Search&portfolio=Bing-India&language=EN&product=Course&test=&audience=DSA&topic=&priority=Beta&utm_content=deal4584&utm_term=.ag_1316117806683075.ad.kw_Career+Development.de.c.d.m.pl.ti.dat-2334057027983523%3Aloc-90.li_149083.pd.&matchtype=b&msclkid=d687f36c9e4716b253e59b23af6d4406&couponCode=PMNVD2025

Case Studies

NPTEL link

https://onlinecourses.swayam2.ac.in/imb25_mg94/preview

<https://archive.nptel.ac.in/courses/110/105/110105156/>

<https://fintecholympiad.org/courses/fundamentals-of-fintech/>

Content in this section should be mentioned as per the program grid.

Topics relevant to development of “**MANAGERIAL and CRITICAL THINKING SKILLS**”: Students shall be able to understand the Complex Concepts of Financial Management and Technology.

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6, June, 2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25, July, 2025

Course Code: FIN5124	Course Title: Financial Markets and Services Type of Course: STC	L- T-P- C	3	1	0	4
Version No.	1.0					
Course Pre-requisites	Students should have successfully completed Financial Management and Financial Accounting courses.					
Anti-requisites	NIL					

Course Description	Financial services sector is one the important sectors contributing towards the GDP of the country. The recent developments in technology has enabled the financial services sector to deliver products in a better and secure way, along with strong regulations as a major contributor towards growth and development of the sector. This course provides an insight of major financial services and the financial institutions through which the services are provided. It makes an evaluation of the regulators, institutions, instruments and participants. The course focuses on various financial services including Merchant banking, Investment Banking, Depositories, Mutual Funds, Financing, Portfolio Management, Venture Capital, Private Equity, Factoring and Depository services. The course helps in deciding major career options in financial markets.			
Course Outcomes	On successful completion of this course the students shall be able to: CO 1 Discuss current structure and regulations of the Indian financial system with global scenario. (Comprehension) CO2 Summarize the concepts and mechanism of financial markets. (Comprehension) CO3 Explain the financial services and specialized financial services and their role in Indian and Global financial markets. (Comprehension) CO4 Demonstrate analytical skills to address relevant issues relating to specialized and other financial services industry in India and Global (Application).			
Course Objective:	The course aims at SKILL DEVELOPMENT with respect to Financial Services with PARTICIPATIVE learning activities.			
Module 1	Introduction to Financial System	Assignment (Participative Learning)	SEBI Guidelines	15 Hours
Financial System: Introduction to Indian Financial System and Global Financial System. Structure of Indian Financial System. Characteristics of Indian Financial System. Organization of Indian Financial System. Function, Importance, Purpose of financial market. Global financial market roles and responsibilities. Indian Regulatory Bodies - Security Exchange Board of India (SEBI) – Introduction, Activities of SEBI, SEBI & Primary Market, SEBI & Secondary Market, SEBI & Mutual Funds, SEBI				

and Takeover Norms, RBI - Role and Functions & Monetary Policy of RBI.				
Module 2	Product & Price	Assignment (Participative Learning)	Financial Markets	15 Hours
Financial Markets: Money Market Products and Applications, Capital Market – IPO, FPO, Trading Settlement, Others: OTC Market, Bond Market, Derivatives Markets, Commodity Markets – Meaning, types, and feature. Forex Markets - Meaning, types, and feature, Crypto currency Markets - Meaning, types, and feature.				
Module 3	Place & Promotion	Project (Experiential Learning)		15 Hours
Nature and Scope of Financial Services - Regulatory Framework for Financial Services - Management of Risk in Financial Services - Pricing of Financial Services - Marketing of Financial Services.				
Module 4	Financial Intermedia ries	Assignment (Participative Learning)		15 Hours

Financial Intermediaries- Mutual Funds - Merchant Banking - Leasing and Hire Purchase - Debt Securitization - Housing Finance - Credit Rating - Strategic Issues in the Management of Financial Intermediaries. Financial Services: Venture Capital - Factoring and forfaiting- Asset Liability Management - Insurance Services, Bancassurance and Reinsurance - Securitization and Asset Reconstruction Companies - Indian and Global Perspective – Managing new challenges - Non -Banking Financial Companies.

Targeted Application & Tools that can be used:

Exposure to the Financial Markets and Management of Financial Services

Professionally Used Software: Quickbooks, Webull, Kissflow Finance, Zoho Finance Plus, Oracle Finance Cloud.

Project work/Assignment:

Assignment: 1] Refer to recent articles on financial markets and analyse the critical factors in financial markets. (Kindly note: Student should visit PU library and access the online resources for the same and incorporate the assignment as well as attach the photo of log in and log out in person in the end of the assignment file.)

Assignment: 2] Review of status of financial services and specialized financial services in India. (This assignment has to be done in group. All the members of the group have to contribute and submit the PPT and do presentation.)

Assignment: 3] Schedule an interview with a Financial Service Manager of an organization and infer the information and data about the organizational activities, analyzing the financial performance of that organization. Submit the summary report of the discussion (Experiential Learning).

Textbook:

- T 1 Clifford Gomez, Financial Markets, Institutions and Financial Services, PHI Learning Private Ltd. Reference Books:
- R 1 E.Gordon & K Natarajan, Financial Markets and Services. Himalaya Publishing House.
- R 2 Shashi K Gupta and Nisha Aggarwal, Financial Services, 12th Edition, Jan, 2022, Kalyani Publishers.

References

Research Articles in Journals

- Customer demand for Credit card services, Journal of Financial Services Research, Volume 61, Issue 3, June 22, <https://link.springer.com/article/10.1007/s10693-022-00381-4>.
- Research on Financial Services Innovations- A Quantitative Review and Future Review and Future Research Directions, International Journal of Bank Marketing https://www.researchgate.net/publication/291822155_Research_on_Financial_Services_Innovations_A_Quantitative_Review_and_Future_Research_Directions

Case Studies:

- Inter-organizational relationship and innovation – A case study on the financial services Industry <https://www.proquest.com/abiglobal/docview/2633900999/6F16FF5FB92242DFPQ/6?accountid=177896>
- Factor influencing Financial Inclusion an Empirical Study <https://www.proquest.com/docview/2668445617/B2B6922070BE4ABEPQ/1?accountid=177896>
- Liquidity Risks in Non-Banking Financial Companies: An Analysis <https://www.proquest.com/docview/2668445617/B2B6922070BE4ABEPQ/1?accountid=177896>
- LIC IPO: Is India's insurance giant worth \$200 billion? <https://www.proquest.com/abiglobal/docview/2619533848/FD9290DFC1994300>

3rd semester:

Course Code: GMM4113	Course Title: Business Strategy and Corporate Transformation Type of Course: Program Core only		L- T-P- C	2	1	0	3
Version No.	1.0						
Course Pre-requisites	[1] Management Concepts and Practices (MBA1015) [2] Microeconomics for Managers (MBA1009)						
Anti-requisites	NIL						
Course Description	Corporate Strategy has become a significant point of the modern corporate world. The changing phases of the competition, the political and social changing faces, the invention of new techniques, and new ideas have compelled the corporate world to embrace the corporate strategy concept and come out with the success. This course (Corporate Strategy) is an integral part of the Strategic Management. Strategic Management is involved in many of the decisions that a leader makes. This course includes what is a strategy, corporate direction, environmental scanning, and sources of competitive advantage, BEVUCA, Neurostrategy, strategy formulation, competitive strategies in emerging industries, balanced scorecard, and International Business.						
Course Objective	This course is designed to improve the EMLOYABILITY SKILLS by using participative learning.						
Course Outcomes	On successful completion of this course the students shall be able to: 1) Define corporate strategy 2) Identify various factors of competitive advantage 3) Explain various generic competitive strategies 4) Prepare a Balanced Scorecard for an organization.						
Course Content:							
Module 1	Introductio n to Strategic Manageme nt	Case: Strategic Analysis of Starbucks Corporation	Data Analysis: Analysis the different tools used in Neurostrategy based on University SCOPUS database (% analysis).	12 Sessions			
Topics: Module -I Introduction to Strategic Management What is Strategic Management & Stages of Strategic Management, Integrating Intuition and Analysis, Adapting to Change, Key Terms in Strategic Management, External Opportunities and							

Threats & Internal Strengths and Weaknesses, Long-Term Objectives, Strategies and Annual Objectives & Policies, The Strategic-Management Model, Benefits of Strategic Management. Corporate Strategy, Directional Strategy, Portfolio Analysis Corporate Parenting. Nero strategy				
Module 2	Environmental Scanning and Industry Analysis	Case Study: Southwest Airline	Data Analysis: Identification of factors responsible for BEVUCA Environment through questionnaire or from literature.	12 Sessions
Capabilities and Competencies, Sources of Competitive Advantage: Position and Capability, Value Chain analysis- primary and secondary activities, Internal and External environmental analysis, SWOT, PESTEL analysis, VUCA & BEVUCA, how strategy shapes structure- structuralist and reconstructionist approach- blue and red ocean strategy, Dubai strategy proposition. The Nature of an Internal Audit, Key Internal Forces, The Resource-Based View (RBV) Integrating Strategy and Culture Industry Analysis: The External Factor Evaluation (EFE) The Competitive Profile Matrix (CPM)				
Module 3	Strategy Formulation	Case study: Class- or Mass(HBR), Idalene F. Kesner and Rockney Walters(2005).	Data Analysis: Application of design thinking in industry, based on themes and sub theme analysis.(Application of spreadsheet with provided database).	12 Sessions
Generic Competitive Strategies- Cost leadership, Differentiation and focus, risk of generic strategy, The Balanced Scorecard, Types of Strategies, Levels of Strategies, Integration Strategies, Forward Integration & Backward Integration, Horizontal Integration, Intensive Strategies, Market Penetration & Market Development, Product Development, Diversification Strategies, Defensive Strategies A framework for competitor analysis- Michael Porter's Five Generic Strategies				
Module 4	Competitive Strategy and corporate advantage	Case study: IKEA (http://aeunike.lecture.ub.ac.id/files/2012/03/Case-Kel.9.pdf)	Simulation: Development and simulation of BSC with the help of spreadsheet.	9 Sessions
Topics: Competitive Strategy in emerging Industries- the structural environment, early mobility barriers, early mobility barriers, coping with the competitors, which emerging industries to enter. Evolution of global industries, strategic alternatives in global industries, How to Become a Sustainable Company, Balanced Score Card, Digital advantage – SMAC. International Business Strategy- mode of entry in international business, political and country risk in International Business. Implementing Strategies: Management and Operations Issues, Implementing Strategies: Marketing, Finance/Accounting, R&D, and MIS Issues.				
Targeted Application & Tools that can be used: 1. Module 1: Neurostrategy (Analysis of University SCOPUS database with the help of spreadsheet)				

2.	Module 2: BECUVA (Identification of Factors through SPSS)
3.	Module 3: Design Thinking (Themes and sub themes analysis by VOSVIWER)
4.	Module 4: Balanced Score Card (Spreadsheet application)
Project work/Assignment:	
1.Quiz: Online quiz in University Edhitch platform (10 marks)	
2. Article review	
3. Identification of value creation process based on VRIO model of any organization of your choice(20 marks)	
Text Book	
Bhandari & Verma: <i>Strategic Management - A Conceptual Framework</i> , McGraw Hill Higher Education, New Delhi, India. https://highered.mheducation.com/sites/125902640x/information_center_view0/index.html	
References	
R1: Strategic Management CONCEPTS AND CASES, Fred R. David Francis Marion University Florence, South Carolina, 13th ed. Pearson Education, Inc., publishing as Prentice Hall	
R2: Michael E. Porter: Competitive Strategy, The Free Press, New York. http://www.mim.ac.mw/books/Michael%20E.%20Porter%20-%20Competitive%20Strategy.pdf .	
R3: HBR'S 10 Must Reads on Strategy. Harvard University Press, Boston, Massachusetts.	
R3: Paul Leinwand; Cesare Mainardi. <i>Strategy that works</i> , Harvard University Press, Boston, Massachusetts. https://www.scribd.com/document/533966997/Strategy-That-Works-How-Winning-Companies-Close-the-Strategy-To-Execution-Gap-by-Paul-Leinwand-Cesare-R-Mainardi-Z-lib-org	
Additional reading: Preparing your business in Post- Pandemic World(HBR) https://img1.wsimg.com/blobby/go/a53b688c-293a-4784-a01f-75c9461a886a/HBRs%2010%20Must%20Reads%20on%20Managing%20in%20a%20Downturn%2C%20.pdf	
Presidency University Library link: https://puniversity.informaticsglobal.com:2293/insight/content/doi/10.1108/TQM-12-2016-0109/full/html	
Catalogue prepared by	Dr. S.FAKRUDDIN ALI AHMED
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: GMM4114	Course Title: Business Law and Regulatory Compliance Type of Course: Program Core	L	T	P	C
		3	0	0	3
Version No.	1.0				

Course Pre-requisites	Foundational Business Administration awareness, which includes the Fundamentals of Business or Management Students should have a basic understanding of business functions such as marketing, finance, and operations to grasp how legal and regulatory issues impact different areas of business. English Language Proficiency Since legal documents, statutes, and case laws are often in English, students should be comfortable reading and interpreting formal and legal language. Basic Understanding of Legal Systems (Recommended) A general awareness of how the Indian legal system functions — including the roles of the legislature, judiciary, and regulatory bodies — will enhance learning, but is not mandatory.
Anti-requisites	Nil
Course Description	This course offers an in-depth understanding of the Indian legal and regulatory framework governing business operations. It covers essential aspects of business law, including the Indian Contract Act, Companies Act, Consumer Protection Act, Intellectual Property Act, and relevant regulations. The course also focuses on regulatory compliance requirements as mandated by bodies such as SEBI and other statutory authorities. Students will develop the ability to identify legal risks, ensure compliance with sector-specific laws, and understand the implications of non-compliance in the Indian business environment. Through case studies, recent legal developments, and practical assignments, the course equips learners to align business practices with Indian legal standards.
Course Objective	This course is designed for skill development of the learner by using participative learning techniques. ☐ Understand the foundational principles of business law relevant to the Indian legal system, including the laws governing contracts, companies, consumer rights, and Intellectual property rights. ☐ Analyse key statutory and regulatory frameworks applicable to business entities in India, such as the Companies Act, 2013; SEBI regulations; FEMA. ☐ Evaluate the role of regulatory bodies like SEBI in ensuring legal compliance and maintaining corporate accountability. ☐ Interpret legal provisions and compliance obligations in business scenarios, and identify legal risks and implications of non-compliance.
Course Outcomes	CO1: Interpret foundational legal concepts and apply the principles of Indian Contract Law to evaluate the validity, performance, and breach of commercial agreements in business settings and analyze the legal framework governing the sale of goods. [Analyse] CO2: Demonstrate a practical understanding of company formation and compliance requirements as outlined in the Companies Act, 2013, and apply

	the provisions of the Foreign Exchange Management Act (FEMA), 1999, to evaluate and manage foreign exchange transactions CO3: Examine the key types of Intellectual Property Rights (IPRs) in India and apply relevant legal principles to protect and manage intellectual assets in business, innovation, and branding strategies. CO4: Interpret and apply the provisions of the Consumer Protection Act, 2019, to identify consumer rights, assess business responsibilities, and resolve consumer disputes in compliance with the legal framework governing consumer protection in India.		
Course Content:			
Module 1	Introduction to the Indian Legal System and the Indian Contract Act, The Sale of Goods Act, 1930	Assessment 1 – MCQ Quiz on types of contracts, essentials, breach, and remedies.	Understand 10 Sessions
Topics: Sources and classification of Indian law, Essentials of a valid contract under the Indian Contract Act, 1872, Types of contracts and enforceability, Performance and discharge of contracts, Remedies for breach of contract and implications for business, Formation of Contract of Sale, Conditions and Warranties, Performance of Contract, Rights of an Unpaid Seller, “Doctrine of Caveat Emptor. Activity: Real-life business agreement case studies.			
Module 2	Companies Act -2013 & FEMA 1999	Assessment 2 – Crossword or Puzzle: Key company law terms (MOA, AOA, AGM, ROC, etc.) in a gamified format.	Understand 15 Sessions
Definition of Company, Characteristics of a Company, Kinds of Companies, Incorporation of Companies Memorandum of Association (MoA) & Articles of Association (AoA), Directors: Appointment, Roles & Responsibilities, and grounds for disqualification of Directors, Types of Shares, Corporate Social Responsibility (CSR) under Section 135, Winding up of a Company, Introduction to FEMA, Regulatory Structure under FEMA, Current Account vs Capital Account Transactions, Foreign Exchange Transactions, Foreign Direct Investment (FDI) and FEMA, Overseas Direct Investment (ODI) guidelines under FEMA, Penalties and Enforcement Mechanism. Activity: [FEMA Cases] • Vodafone case – Dispute over the indirect transfer of Indian assets by a foreign entity • Flipkart/Walmart investment – Under automatic vs. government route for FDI • Startups raising funds – Understanding FEMA's role in ECB or FDI regulations			
Module 3	Intellectual Property Rights (IPR)	Assessment 3 – Poster/Infographic: Students design an	Analyse 10 Sessions

		informative poster on types of IP (patents, trademarks, copyrights, etc.).	
Intellectual Property Rights (IPR) Trademark Act, 1999: Registration, Infringement, Remedies, Copyright Act, 1957: Protection of literary, musical, artistic works, Patent Act, 1970: Patentability Criteria, Process, Rights of Patentees Activity: Cases to be discussed: ☐ Case: Basmati rice GI dispute ☐ Case: Novartis v. Union of India (patent denial for cancer drug) ☐ Copyright: Music and movie piracy implications			
Module 4	Consumer Protection Act - 2019	Assessment 4 Presentation -Case Laws on Celebrity Endorsements.	Understand 10 Sessions
Introduction to CPA, 2019, Key Definitions, Rights of Consumers (Section 2(9)), Consumer Disputes Redressal Agencies, E-Commerce and Consumer Rights, Duties and liabilities of e-commerce entities, Product Liability & Penalties, Liability of manufacturer, seller, and service provider, Conditions under which product liability arises, Penalties for misleading ads (endorser liability, celebrity accountability). Activity: Relevant Case Studies / Examples: • Maggi noodles case (misleading advertisement & product safety) • E-commerce refund disputes • Celebrity endorsements leading to misleading promotions • Case studies: Amazon/Flipkart refund complaints • Debate: “Are Indian consumers truly protected in the digital age?”			
Targeted Application & Tools that can be used: Case lets and flowcharts to trace offer, acceptance, consideration, etc. Poster making / Canva: Create awareness posters on types of IP. Case analysis of FEMA violations or approvals (e.g., Flipkart/Walmart).			
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course			
Web Resources: • Full Text (PDF): India Code • India Code Portal: Indian Kanoon • AdvocateKhoj Bare Act: AdvocateKhoj			
Sale of Goods Act, 1930 • Full Text (PDF): India Code • India Code Portal: India Code • Indian Kanoon: Indian Kanoon			
Companies Act, 2013 • Full Text (PDF): India Code • India Code Portal: India Code			

ICS Institute e-Book: e-book.icsi.edu	
Intellectual Property Laws - Patents Act, 1970 (PDF): Intellectual Property India - Copyright Act, 1957 (PDF): Ministry of Education - Trade Marks Act, 1999: Intellectual Property India	
Consumer Protection Act, 2019 - Full Text (PDF): India Code - India Code Portal: India Code - Ministry of Consumer Affairs: consumeraffairs.nic.in	
Foreign Exchange Management Act (FEMA), 1999 - Full Text (PDF): India Code - Directorate of Enforcement: Enforcement Directorate	
Text Books: - Kapoor, G. K., & Dhamija, S. (2023). <i>Business and corporate laws</i> (Latest ed.). Taxmann Publications. - Pathak, A. (2022). <i>Legal aspects of business</i> (7th ed.). McGraw Hill Education.	
References: - Government of India. (2021). The Indian Contract Act, 1872: Bare act with illustrations (2021 ed.). Government of India Press. - Taxmann. (2022). Foreign exchange management manual (39th ed.). Taxmann Publications. - Taxmann. (n.d.). Consumer protection law & practice. Taxmann Publications. (Use "n.d." if the publication year is not clearly mentioned on the book. Replace with the actual year if known.) - Bhandari, M. K. (2021). Law relating to intellectual property rights. Central Law Publications. - LexisNexis. (n.d.). Companies Act, 2013 (5th ed.). LexisNexis India.	
Catalogue prepared by	Dr. SHALINI ACHARYA
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5112	Course Title: Data Analysis using Python Type of Course: Specialization Track Core	L- T- P- C	3	1	0	4
Version No.	1.0					
Course Pre-requisites	Basic Communication					

	• Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities			
Anti-requisites	NIL			
Course Description	This course introduces students to data analysis and visualization in the field of exploratory data science using Python.			
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.			
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Use data analysis tools in the Pandas library CO2: Load, clean, transform, merge and reshape data. CO3: Handle external files as well as exceptions. CO4: Analyze and manipulate time series data. CO5: Solve real world data analysis problems.			
Course Content:				
Module 1	Data Analysis using Python	Case study	Best-practices for Data Visualization and Insight Delivery.	12 Sessions
Topics: Data Science Fundamentals, Thought Experiment: Data Science from a layman’s perspective, Introduction to Data Science, how companies use Data Science, Overview of Data Science project lifecycle, Walkthrough of data types and data challenges.				
Module 2	Python for Data Science	Hand-on	Implement Probability, Central Limit Theorem, Normal Distribution in Data frames	12 Sessions
Topics: Variable, Inbuilt datatypes, functions, modules and Packages. Statistics for Data Science: Descriptive Statistics, charts and Graphs, Inferential Statistics. Probability, Central Limit Theorem, Normal Distribution & Hypothesis testing.				
Module 3	Data Operations with Numpy	Hand-on	Implement Numpy arrays and Pandas Data frames.	12 Sessions
Topics: Introduction to Numpy Arrays, Applications of mathematical operations in Numpy, Array manipulation using Numpy, Broadcast values across Arrays using Numpy. Data Manipulation with				

Pandas: Types of Data Structures in Pandas, Clean data using Pandas, manipulating data in Pandas and missing values.				
Module 4	Data Visualization Techniques	H a n d s - o n	Pandas for Rapid Visualization	12 Sessions
Topics: Introduction to Data Visualization, Advantages and Applications of Data Visualization. Univariate statistical charts, Bivariate statistical charts, Multivariate statistical charts. Data Visualization using Matplotlib: Introduction to Python's Data Visualization library – Matplotlib, Basic usage of Matplotlib, Using matplotlib to plot statistical charts, Labelling the plots using matplotlib.				
Module 5	Seaborn for Data Visualization	C a s e S t u d y	Perform EDA to explore survival using the Titanic dataset	12 Sessions
Topics: Seaborn for Data Visualization: Introduction to Seaborn Data Visualization library, Importing and setting up seaborn, Using seaborn to plot different statistical charts, Adding details to seaborn charts using matplotlib. EDA & Data Storytelling: Introduction to Exploratory Data Analysis and its steps, Purpose of EDA & Advantages of EDA, Applications of EDA. EDA Framework Deep Dive. Framework for Scientific Exploration.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: - Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Descriptive Statistics, Hypothesis and (Case Study Learning) - Assignment 2: The students will be divided into groups and group discussions will be done on the Data Analysis using Python. (Participative Learning)				
Reference Text book - McKinney, W.(2017). Python for Data Analysis: Data Wrangling with Pandas, NumPy and IPython. 2nd edition. O'Reilly Media - O'Neil, C., & Schutt, R. (2013). Doing Data Science: Straight Talk from the Frontline O'Reilly Media.				
Essential Reading/ Recommended Reading:				

<https://wesmckinney.com/book/>

https://books.google.co.in/books?id=51YOEQAQBAJ&printsec=frontcover&source=gbs_ge_summary_r&cad=0#v=onepage&q&f=false

https://in.images.search.yahoo.com/yhs/search;_ylt=Awr1SX3lL1Fod5ASNgrnHgX.;_ylu=Y29sbwM-EcG9zAzEEdnRpZAMEc2VjA3BpdnM-?p=Course+books+on+data+analysis+using+python+course&vm=r&type=type80160-1876236194¶m1=2826754662&hsimp=yhs-002&hspart=sz&ei=UTF-8&fr=yhs-sz-002#id=8&iurl=https%3A%2F%2Fis1-ssl.mzstatic.com%2Fimage%2Fthumb%2Fpublication124%2Fv4%2F89%2F3c%2F3c%2F893c3c6e-9d8c-a091-fc3f-5b4dd1f5ed55%2Fsource%2F700x700bb.jpg&action=click

PU Resources Mention at least two links from KNIMBUS portal

E – Resources

<https://campus.imarticus.org/lms/course/18165?subId=3312069>

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&t=1725871399557>

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling&t=1725871551070>

Case Studies

NPTEL link

http://onlinecourses.nptel.ac.in/noc21_cs45/preview

<https://elearn.nptel.ac.in/shop/completed-courses/short-term-programs-completed/data-analysis-using-statistical-learning-techniques/?v=c86ee0d9d7ed>

Content in this section should be mentioned as per the program grid.

Topics relevant to development of **“MANAGERIAL and CRITICAL THINKING SKILLS”**: Students shall be able to understand the Complex Concepts of Financial Management and Technology.

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5113	Course Title: Machine Learning and AI in Fintech Type of Course: Specialization Track Core	L- T- P- C	3	1	0	4
Version No.	1.0					
Course Pre-requisites	Basic Communication					

	• Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities, Financial Activities of the market.			
Anti-requisites	NIL			
Course Description	This course provides an in-depth exploration of how artificial intelligence (AI) and machine learning (ML) are transforming the financial services industry. Students will learn fundamental concepts of machine learning and its applications in FinTech, such as fraud detection, customer profiling, robo-advisors, and more. The course also delves into advanced topics like anomaly detection, natural language processing (NLP), open banking, and regulatory challenges, with a focus on real-world applications. Through practical examples and case studies, students will gain skills to apply AI and ML in solving complex financial problems and explore the regulatory and ethical considerations in these evolving fields.			
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYIBILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.			
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Identify appropriate applications of digital technologies and AI in financial services. CO2: Demonstrate comprehensive knowledge of the ICO landscape and its impact on financial services. CO3: Evaluate ethical considerations and data privacy issues related to AI in finance. CO4: Utilize Open Banking and machine learning to create innovative business models. CO5: Explain the role of AI in fraud detection and sustainable finance products.			
Course Content:				
Module 1	Introduction to AI and ML in FinTech	Case study	1. Capital One's Credit Risk Assessment - Supervised Learning 2. Mastercard's Clustering for Market Segmentation -	12 Sessions

			Unsupervised Learning	
Topics: Introduction to AI and ML, Big Data and its role in FinTech, Descriptive, predictive, and diagnostic analytics in financial services. Supervised Learning for FinTech: Regression models, Classification models, Bayesian logistic regression and its application in FinTech. The Fundamentals of AI in FinTech: Key characteristics of FinTech, Computational power and data availability for AI, Scope and terms of AI in financial applications.				
Module 2	Unsupervised Learning in FinTech	C a s e s t u d y	1. Synthetic Identity Fraud in Digital Banking 2. Account Takeover Attacks in Mobile Banking	12 Sessions
Topics: Clustering and K-means, Principal Component Analysis (PCA), Dimensionality reduction in financial data. Anomaly Detection and Natural Language Processing in FinTech: Anomaly detection in financial transactions, Natural language processing (NLP) for banking contracts and investment research, Recommender systems in FinTech. Decision Trees and Neural Networks for Financial Services: Decision trees, pruning, and regression trees, Neural networks and backpropagation, Support vector machines (SVM) in financial predictions				
Module 3	Open Banking and Security	C a s e S t u d y	1. Capital One Data Breach - Cloud Security Failure (2019) 2. Robinhood's Data Security Incidents (2021-2022)	12 Sessions
Topics: Open banking applications and competitive dynamics, Biometric identification and strong authentication in FinTech. Fraud Detection and Screening in FinTech: AI-based credit scoring and fraud screening, How AI can provide competitive advantages in financial transactions. Initial Coin Offerings (ICO) and Tokenization: ICO mechanisms and their comparison to traditional fundraising, Risks, regulations, and market trends in tokenization.				
Module 4	Robo-Advisory and Automated Report Generation	C a s e S t u d y	1. Betterment's Robo-Advisory Platform - Neural Networks 2. Ping An's AI-Powered Insurance - Advanced	12 Sessions

			Learning Techniques	
Topics: Robo-advisory business models, financial report generation using NLP. Advanced Learning Techniques in FinTech: Reinforcement learning in FinTech, Monte Carlo methods for portfolio management, Policy iteration and value iteration for financial decisions. KYC and Anti-Money Laundering (AML): AI techniques for automating KYC/AML processes, Client2vec algorithm for customer profiling.				
Module 5	Sustainable Finance and AI	C as e St u dy	1. HSBC's AI-Powered KYC and AML Compliance 2. BlackRock's Aladdin ESG Integration - Sustainable Finance AI	12 Sessions
Topics: Green finance instruments and ESG risk assessment, The role of FinTech in sustainable finance and climate risk reporting, Regulatory Aspects and Compliance in FinTech: Regulatory requirements for AI-powered Robo advisory, GDPR and its impact on FinTech. Ethics and Interpretability of AI Models in FinTech: Ethical AI development for financial services, Explainability and interpretability of AI models in FinTech.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: - Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of AI and ML in Fintech. (Case Study Learning) - Assignment 2: The students will be divided into groups and group discussions will be done on the Supervised and Unsupervised Learning in Fintech & Robo-Advisory and Automated Report Generation. (Participative Learning)				
Reference &Text book • "Machine Learning in Finance" by Matthew Dixon, Igor Halperin, Paul Bilokon • "Artificial Intelligence in Finance" by Yves Hilpisch • "Applied Machine Learning for FinTech" by Zhen Liu • "Artificial Intelligence in Finance and Investing" by Bernardo Nicoletti • "The AI Advantage: How to Put the Artificial Intelligence Revolution to Work" by Thomas H. Davenport • "Machine Learning for Finance: Principles and Practice for Financial Insiders" by Jannes Klaas • "Hands-On Machine Learning for Algorithmic Trading" by Stefan Jansen • "Machine Learning for Financial Engineering" by Paul Bilokon				
Essential Reading/ Recommended Reading:				

<https://ocw.mit.edu/courses/15-s08-fintech-shaping-the-financial-world-spring-2020/pages/class-3-artificial-intelligence-in-finance/>

https://www.turing.ac.uk/sites/default/files/2019-04/artificial_intelligence_in_finance_-_turing_report_0.pdf

https://www.researchgate.net/publication/377534708_Advancements_of_AI_and_Machine_Learning_in_FinTech_Industry_2016-2020

<https://arxiv.org/pdf/2107.09051>

https://reports.weforum.org/docs/WEF_Artificial_Intelligence_in_Financial_Services_2025.pdf

PU Resources Mention at least two links from KNIMBUS portal

E – Resources

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&t=1725871399557>

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling&t=1725871551070>

Case Studies

NPTEL link

<https://campus.imarticus.org/lms/course/18212?subId=3312076>

https://onlinecourses.nptel.ac.in/noc21_cs24/preview

https://onlinecourses.swayam2.ac.in/imb25_mg94/preview

Content in this section should be mentioned as per the program grid.

Topics relevant to development of **“MANAGERIAL and CRITICAL THINKING SKILLS”**: Students shall be able to understand the Complex Concepts of Financial Management, AI in fintech and ML in fintech.

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

4th Semester:

Course Code: GMM4115	Course Title: Corporate Governance, Ethics and Social Responsibility Type of Course: Program Core	L	T	P	C
		2	1	0	3
Version No.	2.0				
Course Pre-requisites	Nil				
Anti-requisites	Nil				
Course Description	Business Ethics is the art and discipline of applying ethical principles to examine and solve complex moral dilemmas. Ethical principles are the rules of conduct that are derived from ethical values, known as six pillars, namely trustworthiness, respect, responsibility, fairness, caring and citizenship. It is now established that high sense of professional morality must comprise one of the core values of corporate governance for the long term and also short term success of a company. Good corporate governance is an integral part of business ethics. The ethical values are regarded as imperatives for sustainable corporate growth and competitive edge. Hence a framework of effective accountability to the stakeholders is the essence of corporate governance. Corporate social responsibility is essentially a concept whereby companies integrate social and environmental concerns in their business operations and in the interaction with their stakeholders on voluntary basis. In doing so, they make an investment towards future and increase their profitability. In fact corporate governance and corporate social responsibility are interlinked with each other. The students are given the right exposure to Business ethics, corporate governance & social responsibility, which help them understand new concerns and expectations from various stakeholders in the context of large scale industrial change due to globalization. Opportunities for career progression can happen when there is application of ethical values in everything that one does, which means maintaining transparency and being socially responsible.				
Course Objective	1. Appraise various theories of ethical decision making, 2. Comply accepting the need of ethics in the global environment in which the organizations are functioning. 3. Point out the integration of ethics – in work-place management, marketing, accounting and finance, strategy etc. - towards the purpose of ethical growth of a business. 4. Recognize and understand the global perspectives of CSR, the corporate social responsiveness, corporate citizenship and sustainability, 5. Appraise in appreciating the importance of good corporate governance at domestic and international level, understand the various corporate governance systems in practice.				

Course Outcomes	1. To demonstrate conceptual skills of ethical theories and ethical decision making in the contest of organizational functioning. 2. To apply a comprehensive idea of corporate social responsibility in the interest of sustainability of planet for future generations. 3. To analyze development and understanding of corporate frauds, scams and the degrading environment and resources – (evidenced in class room discussions and the case study). 4. To appraise the concepts of corporate governance and learn the theories and practices of corporate governance. 5. To categorize various models of corporate governance around the world.		
Course Content:			
Module 1	Understanding Business Ethics	Assessment 1 - Quiz	12 Sessions
Introduction to Business Ethics, Ethics vs Morals ,The relationship between morality, ethics and ethical theory Nature of ethics- Definition of Business Ethics. Ethics & Law Why is business ethics important? Globalization and ethics . Effects of Globalization- Relevance of Globalization for Business Ethics Ethical impacts of globalization Sustainability- a key goal of BE The need of sustainability.Sustainability- Triple Bottom Line theory.			
Module 2	Evolution of Corporate Governance	Assessment 2 – Assignment	12 Sessions
Introduction, Meaning, Evolution,Nature & objectives of Corporate Governance. Global concerns, Historical Perspective of corporate governance,A brief from East India Company to Enron and World com. Managing agency system, promoter system, Anglo-American system.			
Module 3	Theory and Practice of Corporate Governance	Assessment 3 – Case Analysis	12 Sessions
The concept of corporation, what is a corporate?The concept of corporate governance Theoretical basis of corporate governance .Why corporate governance, Contemporary corporate governance situation,Corporate governance systems The Anglo- American Model,The German Model, The Japanese Model The common features in German and Japanese Models. The Indian Model of corporate governance.			
Module 4	Corporate Responsibility, Stakeholders and Citizenship	Assessment 4 – Mini Project	9 Sessions
Can a corporation have social responsibilities? Why do corporations have social responsibilities? - Business reasons, Moral reasons and Legal reasons. Corporate social responsibility and forms of CSR.Carroll’s four-part model of corporate social responsibility .Arguments For and against Corporate Social Responsibility CSR and strategy: corporate social responsiveness- 4 ‘philosophies or strategies of social responsiveness (Carroll 1979) .Outcomes of CSR: corporate social performance- Donna Wood theory of CSP.Measuring Corporate Social Performance.Corporate Social Responsibility-Business Responsibilities in the 21st Century,Stakeholder theory of the firm- Traditional management model and A network model Why stakeholders matter? A new role for management as a result of stakeholder theory Stakeholder thinking in an international context Corporate accountability- Rise of Corporate Power- The problem of democratic accountability,Corporate Citizenship Concepts Corporate Citizenship – three perspectives,Assessing corporate Citizenship as a framework for business ethics.			

Targeted Application & Tools that can be used: Case Study, Article review, QUIZ and CSR Project	
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course Visit any MNC or Govt.Or NGO and Analyze CSR Policy and Prepare a PPT.	
Text Book: 1. Crane, Andrew & Matten Dirk (2018) Business Ethics, Oxford Publications	
References: 1. Fernando, A.C (2006), Corporate Governance-Principles, Policies and Practices, Pearson Publications 2. Subhash Chandra Das, Corporate Governance in India an evaluation, Third edition- PHI Publications.	
Catalogue prepared by	Dr.Ramesh Muthuswamy
Recommended by the Board of Studies on	BOS NO: 18th held on 6, June, 2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25, July, 2025

Course Code: GMM4118	Course Title: Entrepreneurship and Innovation Management	L	T	P	C
		2	1	0	3
Version No.	2.0				
Course Pre-requisites	Nil				
Anti-requisites	Nil				
Course Description	This course offers a comprehensive exploration of the theories, frameworks, and real-world applications of entrepreneurship and innovation management. It equips learners with the knowledge and tools needed to identify opportunities, generate innovative ideas, and transform them into sustainable business ventures. Emphasis is placed on entrepreneurial mind-set development, business model innovation, lean start-ups methodologies, and the role of technology and digital disruption in creating competitive advantage. Students will engage in hands-on experiential learning through simulations, group projects, case analyses, and start-ups pitching exercises. The course also highlights critical aspects of start-up financing, resource planning, and legal frameworks. Furthermore, it examines innovation ecosystems, policy interventions, and sustainability practices, enabling students to build ventures that are not only viable but socially responsible. By the end of the course, learners will be well-prepared to launch, manage, or support innovative business initiatives.				
Course Objective	This course aims to enhance student's entrepreneurship skills through experiential learning methods such as business simulations, real-time venture creation, and interactive case studies. It focuses on developing an entrepreneurial mindset, innovation capabilities, and the ability to navigate real-world challenges in launching and managing start-ups.				

Course Out Comes	1. Understand the entrepreneurial process and innovation life cycles. <i>(Understand)</i> 2. Apply design thinking and lean startup methodologies to real-world problems. <i>(Apply)</i> 3. Analyze & Evaluate the feasibility of innovative business models in competitive environments. <i>(Analyze, Evaluate)</i> 4. Create a launch-ready entrepreneurial venture plan integrating innovation and sustainability. <i>(Create)</i>			
Course Content:				
Module 1	Foundations of Entrepreneurship and Innovation	Assessment 1	Concept Quiz + Ecosystem Mapping	11 Session
Introduction to Entrepreneurship, Historical Evolution and Theories of Entrepreneurship, Traits and Competencies of Entrepreneurs, Types of Entrepreneurship (Corporate, Social, Tech, etc.), Role of Entrepreneurs in Economic Development, Innovation Defined: Concepts and Characteristics, Types of Innovation: Incremental vs. Radical, Entrepreneurial Ecosystems and Innovation Clusters, Policy Support and Government Initiatives, Guest Lecture/Startup Founder Talk.				
Module 2	Ideation, Design Thinking, and Innovation Frameworks	Assessment 2	Creative Ideation Report + Peer Review	12 Session
Introduction to Creative Thinking and Ideation, Sources of Innovative Ideas (Trend Analysis, Problem Framing), Brainstorming and SCAMPER Techniques, TRIZ and Lateral Thinking Tools, Introduction to Design Thinking, Empathy Mapping and User Research, Ideation and Prototyping in Design Thinking, Business Model Innovation, Intellectual Property Rights and Idea Protection, Pitching Initial Concepts (Peer Review)				
Module 3	Business Models, Validation & Resource Planning	Assessment 3	Case Study + Investor Deck Analysis	11 Session
Introduction to Business Models, Business Model Canvas (BMC): Overview, Deep Dive into BMC Components, Value Proposition Design, Market Research and Customer Validation, Lean Startup Principles: Build-Measure-Learn, MVP Development and Testing, Resource Planning and Team Building, Risk Identification and Mitigation Strategies, Real Startup Case Study Analysis				
Module 4	Financing, Scaling and Sustainable Ventures	Assessment 4	Venture Pitch Simulation + Mini Project	11 Session
Introduction to Startup Financing, Bootstrapping, Angel Investment, Venture Capital, Crowd funding and Alternate Finance Models, Financial Planning and Unit Economics, Crafting and Delivering a Business Pitch, Negotiation and Term Sheets, Scaling Strategies for Startups, Managing Innovation in Growth Phase, Sustainable and Social Entrepreneurship, Final Pitch Simulation + Feedback Round				
Targeted Application & Tools that can be used: • Business Model Canvas (Strategyzer) • Leanstack, Miro, Trello for project tracking • Customer Validation Board • Pitch Deck Templates • Canva for visual storytelling				
Project work/Assignment: Students will ideate, validate, and pitch an original venture using real-world tools. Peer feedback, mentor reviews, and simulation-based learning are integrated.				
Web Resources: • www.strategyzer.com				

• www.startupindia.gov.in • www.techstars.com • www.seedrs.com • www.ycombinator.com Sample Data Set: Market data from Statista or Startup Genome Customer feedback templates Industry-specific problem statements Text Book T1: Hisrich, R.D., Peters, M.P., & Shepherd, D.A. Entrepreneurship (10th ed.) – McGraw-Hill Education T2: Drucker, P.F. Innovation and Entrepreneurship – Harper Business T3: Barringer, B.R., & Ireland, R.D. Entrepreneurship: Successfully Launching New Ventures – Pearson T4: Byers, T., Dorf, R., & Nelson, A. Technology Ventures: From Idea to Enterprise – McGraw-Hill References R1: Hisrich, R.D., Peters, M.P., & Shepherd, D.A. Entrepreneurship, McGraw-Hill R2: Osterwalder, A. & Pigneur, Y. Value Proposition Design, Wiley R3: Tidd, J. & Bessant, J. Managing Innovation, Wiley	
Catalogue prepared by	Dr. Mohammed Mansoor & Prof. Shivaprasad
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

SPECIALIZATION TRACK ELECTIVE – FinTech

Course Code: QNT5137	Course Title: Financial Data Analytics Type of Course: Specialization Track Elective	L- T- P- C	2	0	2	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic statistics, introductory finance, and fundamental programming concepts					
Anti-requisites	NIL					
Course Description	R is an open-source software and is being extensively used in the Industry for Analytic and Statistical Testing. Since Analytics are now ubiquitous in all functional domains- Finance, Marketing, Human Resources, it becomes imperative for all students to have a working knowledge of R. The Course will introduce them to R and the user interface of R studio. A knowledge of the basic data types, operators, functions, data storage objects and packages					

	available in R will be imparted along with working knowledge of these. The students will also be taught to use R for Exploratory Data Analysis and Data Visualisation. The students will be taught the syntax for performing basic statistical tests. They will also be taught the advanced technique of Logistic Regression.			
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.			
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Apply R programming for comprehensive financial data analysis CO2: Implement advanced statistical and econometric models for financial decision-making CO3: Conduct portfolio optimization and risk management using quantitative methods CO4: Analyze financial markets and securities using data-driven approaches CO5: Develop professional-grade financial analytics solutions for real-world business problems.			
Course Content:				
Module 1	Foundation of Financial Analytics and R Environment	Case study	1. Hedge Fund Data Management: How Renaissance Technologies manages vast financial datasets for algorithmic trading	9 Sessions
Topics: Introduction to financial analytics in modern finance, R ecosystem for financial analysis (packages: quantmod, Performance Analytics, tidyquant), Data types and structures specific to financial data, Time series objects and financial data formatting, Basic data visualization for financial metrics; Financial Data Sources and Data Acquisition: Financial data repositories (Bloomberg, Reuters, FRED, Quandl), Web scraping financial data using R, APIs for real-time financial data retrieval, Data quality assessment and cleaning techniques, Handling missing data in financial time series; Exploratory Financial Data Analysis: Descriptive statistics for financial returns, Distribution analysis (normal, log-normal, fat-tailed distributions), Correlation analysis between financial instruments, Seasonality and trend analysis in financial data, Outlier detection and treatment in financial datasets.				
Module 2	Time Series Analysis for Financial Data	Case study	1. Central Bank Analytics: How the Federal Reserve uses time series analysis for monetary policy decisions	9 Sessions

Topics: Time series decomposition (trend, seasonality, cyclical patterns), Stationarity testing (ADF, KPSS tests), Autocorrelation and partial autocorrelation analysis, Moving averages and exponential smoothing, Time series transformation techniques; Financial Return Analysis and Risk Metrics: Return calculations (simple, log, excess returns), Risk measures (VaR, CVaR, maximum drawdown).				
Module 3	Portfolio Theory and Optimization	Case Study	1. Institutional Asset Management: How Vanguard implements low-cost index portfolio strategies	9 Sessions
Topics: Modern Portfolio Theory implementation, Mean-variance optimization using quadratic programming, Efficient frontier construction and analysis, Alternative risk models (Black-Litterman, risk parity), Transaction costs and practical portfolio constraints; Advanced Econometric Models for Finance: ARIMA modeling for financial forecasting, GARCH models for volatility modeling, Cointegration and error correction models, Vector Autoregression (VAR) for multi-asset analysis, Regime-switching models in financial markets.				
Module 4	Fixed Income Analytics	Case Study	1. PIMCO's Total Return Strategy: Fixed income portfolio management using quantitative models	9 Sessions
Topics: Bond pricing and yield curve analysis, Duration and convexity calculations, Interest rate risk modeling, Credit risk assessment using market data, Term structure modeling and forecasting; Equity Valuation and Factor Models: Fundamental analysis using financial ratios, multi-factor models (Fama-French, Carhart), Principal Component Analysis for factor extraction, Style analysis and performance attribution.				
Module 5	Derivatives Analytics and Options Pricing	Case Study	1. Goldman Sachs Securities Division: How investment banks use derivatives analytics for market making	9 Sessions
Topics: Options pricing using Black-Scholes and binomial models, Greeks calculation and risk management, Volatility surface modeling, Monte Carlo simulation for complex derivatives, Exotic options and structured products valuation; Algorithmic Trading and Market Microstructure: Market microstructure analysis using high-frequency data, Order book dynamics and liquidity measures,				

Technical analysis indicators implementation, Back testing frameworks and performance evaluation, Transaction cost analysis and market impact models.

Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method

Project work/Assignment: Mention the Type of Project /Assignment proposed for this course:

7. Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Foundation of Financial Analytics and R Environment. (Case Study Learning)
8. Assignment 2: The students will be divided into groups and group discussions will be done on the Exploratory Financial Data Analysis. (Participative Learning)

Reference &Text book

1. Tsay, R.S. (2019). *Analysis of Financial Time Series*, 4th Edition. Wiley.
2. Carmona, R. (2014). *Statistical Analysis of Financial Data in R*, 2nd Edition. Springer.
3. Chan, E.P. (2017). *Algorithmic Trading: Winning Strategies and Their Rationale*. Wiley.
4. Ruppert, D. & Matteson, D.S. (2015). *Statistics and Data Analysis for Financial Engineering*, 2nd Edition. Springer.
5. Pfaff, B. (2016). *Financial Risk Modelling and Portfolio Optimization with R*, 2nd Edition. Wiley.
6. Cont, R. & Tankov, P. (2015). *Financial Modelling with Jump Processes*, 2nd Edition. Chapman & Hall.

Essential Reading/ Recommended Reading:

1. Introduction to Data Science - Practical Approach with R & Python - B. Uma Maheshwari & R.Sujatha , Wiley, 1st Ed
2. R Programming for Data Science by Roger D. Peng
3. R for Data Science (2nd Edition) by Hadley Wickham, Mine Çetinkaya-Rundel, and Garrett Grolemund
4. Hands-On Programming with R by Garrett Grolemund

PU Resources Mention at least two links from KNIMBUS portal

E – Resources

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent& t=1725871399557>

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling& t=1725871551070>

<https://campus.imarticus.org/lms/course/18212?subId=3312076>

Case Studies

NPTEL link

https://onlinecourses.swayam2.ac.in/aic20_sp35/preview

https://onlinecourses.nptel.ac.in/noc23_ma96/preview

https://onlinecourses.nptel.ac.in/noc21_ma75/preview

Content in this section should be mentioned as per the program grid. Topics relevant to development of “MANAGERIAL and CRITICAL THINKING SKILLS” : Students shall be able to understand the Complex Concepts of Financial Management, Derivatives and Risk Management.	
Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5114	Course Title: Blockchain and Cryptocurrency in Finance Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					
Course Description	This course covers the fundamental concepts, history, and potential implications of digital currencies. It delves into the technical and economic aspects of cryptocurrencies, including the underlying blockchain technology, mining, consensus mechanisms, and the role of decentralized finance and digital assets. Students will also learn about cryptocurrency investing strategies, and explore case studies of successful and unsuccessful cryptocurrency projects.					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY” : Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.					
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Describe and define the dynamics of digital and cryptocurrencies and how they are poised as the next generation payment method. CO2: Demonstrate in-depth knowledge about the complex ICO landscape that encompasses all digital and cryptocurrencies. CO3: Articulate thoroughly about the cryptocurrency mining, transaction, and commerce space with potential risks and benefits. CO4: Describe and understand digital assets and their applications					

	CO5: Describe different facets and opportunities of cryptocurrencies.			
Course Content:				
Module 1	Blockchain concepts for Crypto Assets	Case study	3. Wealthsimple - ESG-Integrated Robo-Advisory Platform	9 Sessions
Topics: Blockchain 3.0, Distributed Ledgers - Cryptographic basics for crypto currency - Hashing, signature schemes, encryption schemes and elliptic curve cryptography –CAP theorem and blockchain - Categories of Blockchains: Public, Private blockchains, Permissioned Ledger, Tokenized blockchains, Token less blockchains, Sidechains. DAG and Acyclic Graphs.				
Module 2	Essentials of Cryptocurrencies	Case study	1. Blockchain-Based Green Bond Issuance	9 Sessions
Topics: Essentials of Cryptocurrencies Distributed identity: Public and private keys, Digital identification and wallets; Decentralized network - Distributed ledger: Per missioning framework, Blockchain data structure - Double spending; Network consensus -Sybil attacks, Block rewards and miners, Difficulty under competition, Forks and consensus chain, The 51% attack, Confirmations and finality - The limits of proof-of-work - Alternatives to Proof of Work.				
Module 3	Initial Coin Offerings (ICO) and Tokenization	Case Study	1. Energy Web Chain - Blockchain for Renewable Energy	9 Sessions
Topics: Definition and Background of ICOs: Understanding the definition, history, and background of Initial Coin Offerings; ICO Mechanisms and Characteristics: Exploring the mechanisms, features, and characteristics of ICOs; ICO vs. Traditional Fundraising Methods: Comparing ICOs with traditional methods of fundraising; ICO vs IEO vs STO, Risks, Regulations, and Market Trends: Evaluating the risks, regulatory environment, and market trends related to ICOs. Investing Strategies: Trading and Investing of Crypto currencies, trading pairs, trading platforms, Crypto scams.: Latest scams in crypto assets and how to avoid them.				
Module 4	Cryptocurrency Mining and Transactions	Case Study	1. Eneco's Green Bond Issuance with FinTech Integration	9 Sessions
Topics: Mining Mechanisms and History: Understanding the history and various mechanisms of cryptocurrency mining; Types of Mining: Solo, Pool, Cloud: Exploring different types of mining including solo mining, mining pools, and cloud mining; Double-Spending Problem and Cryptographic Solutions: Addressing the double-spending problem and cryptographic solutions to mitigate it; Transaction Processes, Fees, and Speed: Analyzing the processes involved in cryptocurrency transactions, associated fees, and transaction speed.				
Module 5	The Future of Digital Assets and Cryptocurrencies	Case Study	1. Climate FinTech Alliance -	9 Sessions

			Ecosystem Development	
Topics: Crypto-Assets: Commodities, Tokens, New Asset Classes: Understanding various crypto-assets including commodities, tokens, and new asset classes; Central Bank Digital Currencies: Understanding CBDC. Need for CBDC. Application of blockchain in CBDC as digital assets. Live use cases. Launch of CBDC in India. Possible use cases of blockchain. Regulatory Landscape and Compliance: Analyzing the regulatory landscape and compliance requirements for digital assets and cryptocurrencies.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Sustainable Finance in Fintech, Policies, and Management Techniques. (Case Study Learning) Assignment 2: The students will be divided into groups and group discussions will be done on the Global FinTech Regulations. (Participative Learning)				
Reference &Text book 1. Pachghare, V. K. Cryptography and information security. 2019, PHI Learning Pvt. Ltd. 2. Stallings, W. Cryptography and network security principles and practices, 2017 Pearson Education, Inc. 3. Imran Bashir, Mastering Blockchain: Distributed ledger technology, decentralization, and smart contracts explained, 2018, 2nd edition, Packt Publishing, Birmingham - Mumbai 4. Arshdeep Bahga, Vijay Madiseti, 2017 Blockchain Applications: A Hands-On Approach, 1st edition, United States: Arshdeep Bahga. 5. Crypto assets: The Innovative Investor's Guide to Bitcoin and Beyond" by Chris Burniske and Jack Tatar. 6. The Age of Cryptocurrency: How Bitcoin and Digital Money are Challenging the Global Economic Order" by Paul Vigna and Michael J. Casey 7. Mastering Bitcoin: Unlocking Digital Cryptocurrencies" by Andreas M. Antonopoulos 8. The Basics of Bitcoins and Blockchains" by Antony Lewis 9. Online course materials from Coursera, edX, and other educational platforms focusing on blockchain technology and cryptocurrencies.				
Essential Reading/ Recommended Reading: <u>The Basics of Bitcoins and Blockchains.pdf</u> PU Resources Mention at least two links from KNIMBUS portal <u>https://www.researchgate.net/publication/345045424_BLOCKCHAIN_FUNDAMENTALS_TEXT_BOOK_Fundamentals_of_Blockchain</u> <u>https://cs251.stanford.edu/lectures/lecture1.pdf</u> <u>https://content.e-bookshelf.de/media/reading/L-17782175-16eef2d176.pdf</u> <u>https://api.pageplace.de/preview/DT0400.9781000077704_A39914374/preview-9781000077704_A39914374.pdf</u>				

E – Resources	
https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent& t=1725871399557 https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling& t=1725871551070 https://campus.imarticus.org/lms/course/18212?subId=3312076	
Case Studies	
NPTEL link	
https://onlinecourses.nptel.ac.in/noc25_mg21/preview https://archive.nptel.ac.in/courses/110/107/110107128/	
Content in this section should be mentioned as per the program grid. Topics relevant to development of “ MANAGERIAL and CRITICAL THINKING SKILLS ”: Students shall be able to understand the Complex Concepts of Financial Management, Blockchain and cryptocurrencies	
Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5115	Course Title: Risk Management in Fintech Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					
Course Description	This course provides an in-depth understanding of risk management in the rapidly evolving fintech sector. Students will explore the nature of fintech-related risks, including cybersecurity threats, operational challenges, and regulatory compliance. The course will equip students with the skills to develop and implement effective risk management strategies and understand the implications of these risks on financial services and products.					

Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYIBILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.			
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Understand the fundamental concepts of risk management in the fintech industry. CO2: Analyze and evaluate various types of risks associated with fintech applications. CO3: Develop strategies to mitigate operational, reputational, and financial risks in fintech. CO4: Explore regulatory frameworks and compliance issues pertinent to fintech. CO5: Apply risk management principles to real-world fintech scenarios.			
Course Content:				
Module 1	Fundamentals of Fintech and Risk Management	Case study	4. Wirecard's Collapse - The \$2.1 Billion Accounting Fraud (2020) 5. FTX Exchange Collapse - Liquidity and Operational Risk (2022)	7 Sessions
Topics: Introduction to Traditional BFSI Challenges; Emergence of Fintech Solutions; Fintech models; Technologies driving Fintech Innovations; Risk Identification in Fintech Models.				
Module 2	Digital Fraud in Fintech: Identification, Prevention, and Mitigation	Case study	3. Synthetic Identity Fraud in Digital Banking 4. Account Takeover Attacks in Mobile Banking	9 Sessions
Topics: Digital Fraud and its types; Underlying causes and vulnerabilities leading to digital fraud in Fintech; Advanced technologies and strategies for detecting and preventing digital fraud.				
Module 3	Cybersecurity and Data Privacy Risks	Case Study	3. Capital One Data Breach - Cloud Security Failure (2019) 4. Robinhood's Data Security Incidents (2021-2022)	9 Sessions
Topics: Scope and impact of cybersecurity and data privacy risk in the Fintech industry; Common cybersecurity threats and data breaches targeting Fintech platforms; Regulatory landscape and compliance requirements related to data privacy.				

Module 4	Regulatory and Risk Management in Fintech	Case Study	2. Facebook's Libra/Diem Project - Regulatory Challenges (2019-2022) 3. PayPal's Regulatory Evolution and Compliance Strategy	10 Sessions
Topics: Regulatory landscape in Fintech; Key laws and regulations; Compliance requirements; Global regulatory differences; Impact on Fintech operations across regions; Strategies for identifying and mitigating operational risks; Techniques for conducting stress tests and scenario analysis; Applications of AI and ML in enhancing risk assessment and fraud detection.				
Module 5	Emerging Trends and Future Directions in Fintech Risk Management	Case Study	1. Artificial Intelligence and Machine Learning Risk Management 2. Upstart's AI Credit Risk Models	10 Sessions
Topics: Applications of AI and ML in Fintech, enhancing risk assessment, Fraud detection mechanisms using AI and ML, Blockchain technology, Smart contracts, Security and efficiency in financial transactions and contractual obligations, Regtech Solutions, automating regulatory compliance, Enhancing risk management frameworks, Advanced cybersecurity measures and data privacy innovations relevant to Fintech, Quantitative methods and predictive modeling techniques for risk management.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: 9. Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Risk Management in Fintech. (Case Study Learning) 10. Assignment 2: The students will be divided into groups and group discussions will be done on the Emerging Trends and Future Directions in Fintech Risk Management. (Participative Learning)				
Reference &Text book • FinTech Risk Management" by HKUST • Financial Technology (FinTech) MSc by University of Bradford • Quantitative Risk Management by Duke University				
Essential Reading/ Recommended Reading: https://efinladder.in/static/media/frm0.f28e6f24237a5f978e14.pdf				

<https://www2.deloitte.com/content/dam/Deloitte/us/Documents/finance/us-fintech-risk-and-compliance-management.pdf>

<https://www.pymnts.com/wp-content/uploads/2022/01/PYMNTS-FinTech-Risk-Management-Playbook-January-2022.pdf>

<https://josephscollege.ac.in/lms/Uploads/pdf/material/FRM.pdf>

PU Resources Mention at least two links from KNIMBUS portal

E – Resources

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent& t=1725871399557>

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling& t=1725871551070>

<https://campus.imarticus.org/lms/course/18212?subId=3312076>

Case Studies

NPTEL link

https://onlinecourses.nptel.ac.in/noc25_mg21/preview

<https://archive.nptel.ac.in/courses/110/107/110107128/>

Content in this section should be mentioned as per the program grid.

Topics relevant to development of “**MANAGERIAL and CRITICAL THINKING SKILLS**”: Students shall be able to understand the Complex Concepts of Financial Management, Derivatives and Risk Management.

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5116	Course Title: Fundamentals of Insurtech and Regtech Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	- Basic Communication - Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). - Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					

Course Description	This course, "Fundamentals of Insurtech and Regtech," is designed to offer students a comprehensive understanding of the dynamic intersection between insurance, technology, and regulatory advancements. Participants will delve into the realms of Insurtech and Regtech, exploring the transformative technologies reshaping the insurance industry and the regulatory landscape. Throughout the course, students will gain insights into the foundational concepts of Insurtech and Regtech, examining their historical evolution and distinctive characteristics. The curriculum provides equal coverage to both fields, emphasizing their interconnectedness and the critical role each plays in the financial ecosystem.			
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.			
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Explain the fundamental concepts of both Insurtech and Regtech, recognizing their historical context and the roles of professionals in the field. CO2: Evaluate the role of digital transformation in reshaping insurance processes and regulatory compliance, and analyse how technology enhances customer engagement. CO3: Assess the significance of risk management in Insurtech and Regtech and analyse effective strategies through case studies. CO4: Understand critical aspects of data security and privacy in both Insurtech and Regtech, and apply regulatory guidelines for secure data practices. CO5: Analyse the landscape of Insurtech and Regtech startups, funding trends, and success factors through collaboration and partnerships.			
Course Content:				
Module 1	Introduction to Insurtech and Regtech	Case study	1. UK's Regulatory Evolution - From FCA Sandbox to Digital Transformation 2. Singapore's Model AI Governance Framework for Insurance	7 Sessions
Topics: Definition and Significance, Historical Evolution of Insurtech and Regtech, Key Characteristics and Differentiators, Overview of Regulatory Technology (Regtech), Manpower Mapping and Professional Roles. Regulatory Landscape in Insurance and Technology: Understanding Insurance Regulations, Compliance Requirements for Insurers, Role of Regtech in Ensuring Compliance, Regulatory Challenges in the Insurance Sector. Digital Transformation in Insurance and Regulation: Digitalization in Insurance Processes, Impact of Technology on Regulatory Compliance, Digital Customer Engagement in Insurance, Regtech Solutions for Operational Efficiency.				
Module 2	Risk Management in Insurtech and Regtech	Case study	5. Synthetic Identity Fraud in Digital	9 Sessions

			Banking 6. Account Takeover Attacks in Mobile Banking	
Topics: Risk Assessment in Insurance, Role of Technology in Risk Management, Regulatory Compliance and Risk Mitigation, Case Studies on Effective Risk Management. Data Security and Privacy in Insurtech and Regtech: Importance of Data Security in Insurance and Regulation, Privacy Concerns in Insurtech and Regtech Operations, Regulatory Guidelines for Data Protection, Implementing Secure Data Practices. Insurtech and Regtech Business Models: Overview of Insurtech Business Models, Components of Successful Insurtech Models, Business Model Innovation in the Insurance Sector, Regtech Solutions for Enhanced Business Operations.				
Module 3	Role of Artificial Intelligence (AI) in Insurance and Regulation	Case Study	1. AXA's Blockchain-Based Flight Delay Insurance 2. B3i Consortium - Blockchain Insurance Industry Initiative	9 Sessions
Topics: Understanding AI in Insurance, AI Applications in Underwriting and Claims, Benefits and Challenges of AI in Insurtech and Regtech, Ethical Considerations in AI Use. Blockchain Technology in Insurance and Regulation: Introduction to Blockchain, Use Cases of Blockchain in Insurance, Enhancing Security and Transparency with Blockchain, Regulatory Implications and Challenges. Insurtech and Regtech Startups and Ecosystem: Startup Landscape in Insurtech and Regtech, Funding and Investment Trends, Collaboration and Partnerships in the Ecosystem, Success Factors for Startups in Both Sectors.				
Module 4	Ethical Considerations and Governance in Insurtech and Regtech	Case Study	1. Abu Dhabi Global Market (ADGM) RegLab Success Stories 2. Bermuda's Regulatory Innovation in Digital Assets and Insurance	10 Sessions
Topics: Ethical Considerations in Insurtech and Regtech, Governance Frameworks, Addressing Bias in Technology, Regulatory Guidelines on Ethical Practices. Regulatory Sandboxes and Innovation: Definition and Purpose of Regulatory Sandboxes, Insurtech and Regtech Testing in Sandboxes, Regulatory Support for Innovation, Success Stories from Regulatory Sandboxes. Challenges in Insurtech and Regtech Implementation: Common Challenges in Insurtech Implementation, Common Challenges in Regtech Implementation, Regulatory Compliance Hurdles, Strategies for Overcoming Challenges.				
Module 5	Future Trends and Emerging Technologies in Insurtech & Regtech	Case Study	1. HSBC's Regtech Transformation - AI-Powered Compliance	10 Sessions

			2. Lemonade's AI-First Insurance Model	
Topics: Trends Shaping the Future of Insurtech, Emerging Technologies in Insurtech, Regulatory Response to Technological Advancements, Continuous Learning and Adaptation in the Industry. Future Trends and Emerging Technologies in Regtech: Trends Shaping the Future of Regtech, Emerging Technologies in Regtech, Regulatory Response to Technological Advancements in Regulation, Continuous Learning and Adaptation in the Industry. Integrating Insurtech and Regtech Solutions: Integration of Insurtech and Regtech Solutions, Benefits and Challenges of Integration, Case Studies on Seamless Integration, Future Trends in Integration.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: 11. Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Risk Management in Fintech. (Case Study Learning) 12. Assignment 2: The students will be divided into groups and group discussions will be done on the Emerging Trends and Future Directions in Fintech Risk Management. (Participative Learning)				
Reference &Text book 1. The InsurTech Book - The Insurance Technology Handbook for Investors, Entrepreneurs and FinTech Visionaries. 2. Connecting Fintech: Building Techno-Financial Bridge Using 5D Model. 3. Regtech, Suptech and Beyond: Innovation in Financial Services.				
Essential Reading/ Recommended Reading: https://cse.hkust.edu.hk/ug/comp4900/F17/InsurTech_RegTech.pdf https://itema-conference.com/wp-content/uploads/2019/09/koprivica_insurtech_challenges_and_opportunities_for_the_insurance_sector_pp_619-625.pdf https://content.e-bookshelf.de/media/reading/L-11020687-faccca4a0e.pdf PU Resources Mention at least two links from KNIMBUS portal E – Resources https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&t=1725871399557 https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling&t=1725871551070 Case Studies NPTEL link https://campus.imarticus.org/lms/course/18212?subId=3312076				

Content in this section should be mentioned as per the program grid. Topics relevant to development of “MANAGERIAL and CRITICAL THINKING SKILLS”: Students shall be able to understand the Complex Concepts of Financial Management, Insurtech & Regtech & fundamentals of Blockchain.	
Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5117	Course Title: Cloud Computing Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					
Course Description	This course provides an in-depth understanding of risk management in the rapidly evolving fintech sector. Students will explore the nature of fintech-related risks, including cybersecurity threats, operational challenges, and regulatory compliance. The course will equip students with the skills to develop and implement effective risk management strategies and understand the implications of these risks on financial services and products.					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY” : Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.					
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Explain the core concepts of the cloud computing paradigm. CO2: Apply fundamental concepts in cloud infrastructures to understand the tradeoffs in power, efficiency and cost. CO3: Discuss system, network and storage virtualization and outline their role in enabling the cloud computing system model. CO4: Illustrate the fundamental concepts of cloud storage and demonstrate their use in storage systems such as Amazon S3 and HDFS. CO5: Analyze various cloud programming models and apply them to solve problems on the cloud.					

Course Content:				
Module 1	Fundamentals of Cloud Computing	Case study	6. Wirecard's Collapse - The \$2.1 Billion Accounting Fraud (2020) 7. FTX Exchange Collapse - Liquidity and Operational Risk (2022)	7 Sessions
Topics: Introduction to cloud computing, history of cloud computing, enabling technologies in cloud computing. Types: Layers in the cloud building blocks, Public Cloud, Private cloud, Hybrid cloud, Cloud service models: IaaS, PaaS, SaaS, SLAs and SLOs, Database Providers: Threats in cloud security, common cloud providers: AWS, Oracle database, Microsoft Azure, Google Cloud Platform, IBM DB2, OpenStack.				
Module 2	Cloud Infrastructure	Case study	7. Synthetic Identity Fraud in Digital Banking 8. Account Takeover Attacks in Mobile Banking	9 Sessions
Topics: Historical Perspective of Data Centers Datacenter Components: IT Equipment and Facilities. Design Considerations – I: Design consideration: Requirements, Power, Efficiency, & Redundancy, Power Calculations. Design Considerations – II: PUE and Challenges in Cloud Data Centers, Cloud Management and Cloud Software Deployment Considerations.				
Module 3	Virtualization	Case Study	5. Capital One Data Breach - Cloud Security Failure (2019) 6. Robinhood's Data Security Incidents (2021-2022)	9 Sessions
Topics: Virtualization (CPU, Memory, I/O), Types: Application Virtualization, Network Virtualization, Desktop Virtualization, Storage Virtualization, Server Virtualization, Data virtualization. Visualization – Case Study: Case Study: Amazon EC2, Software Defined Networks (SDN), Software Defined Storage (SDS). Cloud Storage: Introduction to Storage Systems, Cloud Storage Concepts, Advantages and Disadvantages of cloud storage.				
Module 4	Distributed File Systems	Case Study	4. Facebook's Libra/Diem Project - Regulatory Challenges (2019-2022) 5. PayPal's Regulatory Evolution and Compliance Strategy	10 Sessions

Topics: Distributed File Systems (HDFS, Ceph FS), Components of DFS, Features, working of DFS, Advantages and Disadvantages. Cloud Databases: Features of cloud databases, Traditional Databases vs. DBaaS vs. Managed Storage, Advantages of working with cloud database, Cloud database challenges. Cloud Database Solutions: Cloud Databases: HBase, MongoDB, Cassandra, DynamoDB, Amazon DynamoDB.				
Module 5	Cloud Object Storage	Case Study	3. Artificial Intelligence and Machine Learning Risk Management 4. Upstart's AI Credit Risk Models	10 Sessions
Topics: Features of object storage, Object storage vs. file storage vs. block storage, Architecture, Cloud Object Storage: Amazon S3, OpenStack Swift, Ceph, IBM cloud object storage. Programming Models – I: Distributed Programming for the Cloud, Data-Parallel Analytics with Hadoop MapReduce (YARN). Programming Models – II: Iterative Data-Parallel Analytics with Apache Spark, Graph-Parallel Analytics with GraphLab 2.0 (PowerGraph)				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: 13. Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Risk Management in Fintech. (Case Study Learning) 14. Assignment 2: The students will be divided into groups and group discussions will be done on the Emerging Trends and Future Directions in Fintech Risk Management. (Participative Learning)				
Reference &Text book 1. "Cloud Computing: Concepts, Technology & Architecture" by Thomas Erl, Ricardo Puttini, and Zaigham Mahmood 2. "Cloud Native Infrastructure: Patterns for Scalable Infrastructure and Applications in a Dynamic Environment" by Justin Garrison and Kris Nova 3. "Cloud Application Architectures: Building Applications and Infrastructure in the Cloud" by George Reese				
Essential Reading/ Recommended Reading: https://efinladder.in/static/media/frm0.f28e6f24237a5f978e14.pdf https://www2.deloitte.com/content/dam/Deloitte/us/Documents/finance/us-fintech-risk-and-compliance-management.pdf https://www.pymnts.com/wp-content/uploads/2022/01/PYMNTS-FinTech-Risk-Management-Playbook-January-2022.pdf https://josephscollege.ac.in/lms/uploads/pdf/material/FRM.pdf PU Resources Mention at least two links from KNIMBUS portal E – Resources				

https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&_t=1725871399557

https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling&_t=1725871551070

<https://campus.imarticus.org/lms/course/18212?subId=3312076>

Case Studies

NPTEL link

https://onlinecourses.nptel.ac.in/noc25_mg21/preview

<https://archive.nptel.ac.in/courses/110/107/110107128/>

Content in this section should be mentioned as per the program grid.

Topics relevant to development of “**MANAGERIAL and CRITICAL THINKING SKILLS**”: Students shall be able to understand the Complex Concepts of Financial Management, Derivatives and Risk Management.

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5118	Course Title: Cybersecurity in FinTech Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	- Basic Communication - Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). - Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					
Course Description	This course explores the fundamental principles and practices of cybersecurity within the FinTech industry. It covers the critical aspects of protecting digital financial services from threats, vulnerabilities, and attacks. Students will examine real-world case studies, regulatory requirements, and advanced security technologies relevant to FinTech applications. The course also emphasizes risk management strategies, ethical considerations, and emerging trends in cybersecurity.					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYIBILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants,					

	business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.			
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Identify key cybersecurity threats and vulnerabilities specific to FinTech environments. CO2: Analyze regulatory frameworks and compliance requirements for cybersecurity in FinTech. CO3: Apply risk management techniques to safeguard digital financial services. CO4: Evaluate the effectiveness of various cybersecurity technologies and strategies in FinTech. CO5: Develop and implement cybersecurity policies and procedures for FinTech organizations.			
Course Content:				
Module 1	Overview of cybersecurity in the financial sector	Case study	8. The Digital Banking Revolution - Cybersecurity Overview in Financial Services	9 Sessions
Topics: Overview of cybersecurity in the financial sector, Types of cyber threats: malware, phishing, ransomware, etc., FinTech-specific vulnerabilities and attack vectors.				
Module 2	Global and regional cybersecurity regulations	Case study	2. Global Compliance Maze - PaySecure's Regulatory Navigation	9 Sessions
Topics: Global and regional cybersecurity regulations (e.g., GDPR, PSD2, CCPA), Compliance requirements for FinTech companies, Data protection and privacy laws.				
Module 3	Risk assessment and management techniques	Case Study	7. CryptoTrade's Risk Assessment Revolution	9 Sessions
Topics: Risk assessment and management techniques, Incident response and recovery planning, Security controls and their application in FinTech.				
Module 4	Encryption and secure communication	Case Study	6. Secure Finance's SIEM Implementation - From Chaos to Control	9 Sessions
Topics: Encryption and secure communication, Authentication and access control methods, Security Information and Event Management (SIEM) systems.				
Module 5	Creating and implementing cybersecurity policies	Case Study	1. PolicyTech's Cybersecurity Governance Framework	9 Sessions

Topics: Creating and implementing cybersecurity policies, Training and awareness programs for employees, Continuous monitoring and improvement of security measures.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: 15. Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Cyber Security in Fintech, Policies, and Management Techniques. (Case Study Learning) 16. Assignment 2: The students will be divided into groups and group discussions will be done on the Cyber Security in Fintech. (Participative Learning)				
Reference &Text book 1. "Cybersecurity for Financial Services: Protecting Your Data and Privacy" by Michael C. Nardella 2. "FinTech Security: How to Protect Digital Financial Services" by John A. D. Thompson 3. "Information Security Management Handbook" edited by Harold F. Tipton and Micki Krause 4. "Cybersecurity for Beginners" by Raef Meeuwisse				
Essential Reading/ Recommended Reading: https://www.techradar.com/best/best-online-cyber-security-courses https://archive.org/details/cyber-security_202402 PU Resources Mention at least two links from KNIMBUS portal https://www.udemy.com/course/cyber-security-fundamentals/?utm_source=bing&utm_medium=udemyads&utm_campaign=BG-Search_DSA_Beta_Prof_Ia.EN_cc.India&campaigntype=Search&portfolio=Bing-India&language=EN&product=Course&test=&audience=DSA&topic=&priority=Beta&utm_content=deal4584&utm_term=.ag_1318316830212069.ad.kw_Engineering.de.c.dm.pl.ti_dat-2334194466907544%3Aloc-90.li_149083.pd.&matchtype=b&msclkid=aa77b9f54756103d1772d1a51f686107&couponCode=PMNVD2025 E – Resources https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&t=1725871399557 https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling&t=1725871551070 https://campus.imarticus.org/lms/course/18212?subId=3312076 Case Studies NPTEL link https://onlinecourses.nptel.ac.in/noc25_mg21/preview				

<https://archive.nptel.ac.in/courses/110/107/110107128/>

Content in this section should be mentioned as per the program grid.

Topics relevant to development of “**MANAGERIAL and CRITICAL THINKING SKILLS**”: Students shall be able to understand the Complex Concepts of Financial Management, Cyber security in Fintech

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6, June, 2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25, July, 2025

Course Code: FTH5119	Course Title: Fintech in Payment and Lending Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					
Course Description	This course provides an in-depth exploration of the intersection between financial technology (Fintech) and the payment and lending industries. The course is designed for students with an interest in the rapidly evolving Fintech landscape, and its impact on traditional banking and finance. The course covers a broad range of topics related to Fintech in payments and lending, including digital currencies, blockchain, mobile payments, data analytics, alternative financing, payments infrastructure, digital identity, and behavioral finance. The course emphasizes the practical application of Fintech solutions, with case studies and guest speakers from leading Fintech companies. Upon completion of this course, students will have a comprehensive understanding of Fintech in payments and lending, and the skills to analyze and evaluate Fintech innovations for their strategic implications and potential impact on the industry.					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.					

Course Out Comes	On successful completion of the course the students shall be able to: CO1: Analyze the Fintech landscape in payments and lending. CO2: Evaluate the benefits and risks of Fintech solutions. CO3: Apply theoretical and practical frameworks to assess Fintech solutions. CO4: Design and develop a Fintech solution in payments and lending.			
Course Content:				
Module 1	Introduction to Fintech and Payment & Lending	Case study	9. Ant Group (Alipay) - The Super App Revolution 10. Square (Block) - Merchant-Centric Payment Innovation	9 Sessions
Topics: Overview of Fintech and its impact on the financial industry, Payment and Lending in traditional finance and their challenges, Fintech solutions in Payment & Lending, Regulatory landscape and challenges for Fintech companies in Payment & Lending, Emerging trends in Fintech Payment & Lending. Payment Systems: Types of payment systems and their characteristics; Payment processing and settlement, Mobile payments and digital wallets, Cryptocurrencies and blockchain in payments, Payment security and fraud prevention. Consumer Lending: Types of consumer loans and their features, Credit scoring and underwriting in Fintech lending, Peer-to-peer lending platforms, Personal finance management tools, Impact of Fintech on consumer lending market.				
Module 2	SME Lending	Case study	1. Lending Club - P2P Lending Pioneer 2. Upstart - AI-Driven Credit Underwriting	9 Sessions
Topics: SME Lending: Challenges of SME lending in traditional finance, Fintech solutions for SME lending, Credit risk assessment for SME lending, Alternative financing options for SMEs, Future of SME lending in Fintech industry. Regulation and Compliance: Regulatory frameworks for Fintech companies in Payment & Lending, Compliance requirements for Fintech companies, Cross-border regulatory challenges, Data privacy and security regulations, Ethics and social responsibility in Fintech industry. Digital Banking: Rise of digital banks and their features, Mobile banking apps and user experience, Virtual assistants and AI in banking, Open banking and APIs, Challenges and opportunities for traditional banks in digital era.				
Module 3	Investment and Wealth Management	Case Study	8. Regulatory Challenges in Fintech Lending 9. Nubank - Latin America's Digital Banking Success	9 Sessions
Topics: Types of investment products and their features, Robo-advisors and algorithmic trading, social trading and crowd-investing platforms, Regulatory challenges for Fintech investment platforms, Wealth management trends in Fintech industry. Insurance and Risk Management: Fintech solutions for insurance industry, Usage-based insurance and telematics, Claims processing and fraud detection, Cybersecurity and risk management in Fintech, Future of insurance industry in digital era. Data Analytics and AI: Big data and analytics in Fintech, Predictive modeling and customer segmentation, Machine learning and natural language processing, Explainable AI and				

regulatory challenges, Ethical and social implications of AI in Fintech, Fintech use cases for AI and data analytics.				
Module 4	Crowdfunding and Alternative Financing	Case Study	7. Robinhood - Commission-Free Trading Revolution 8. Betterment and Wealth front - Robo-Advisory	9 Sessions
Topics: Crowdfunding and crowdsourcing in Fintech, Equity crowdfunding and initial coin offerings (ICOs), Peer-to-peer lending and invoice financing, Real estate crowdfunding, Challenges and opportunities for alternative financing in Fintech. Payments Infrastructure and Interoperability: payments infrastructure and clearing systems, Cross-border payments and foreign exchange, Payment gateways and APIs, Interoperability and standardization in Fintech, Challenges and opportunities for Fintech payments infrastructure. Digital Identity and KYC: Digital identity and verification systems, Know-your-customer (KYC) and anti-money laundering (AML) regulations, Biometrics and facial recognition, Privacy and security considerations for digital identity, Fintech use cases for digital identity and KYC.				
Module 5	Behavioral Finance and Psychology of Money	Case Study	5. Mint - Personal Financial Management 6. Capital - Micro-Investing and Behavioral Nudges	9 Sessions
Topics: Behavioral finance and its applications in Fintech, Cognitive biases and decision-making in finance, financial education and literacy, financial wellness and mental health, Ethics and social responsibility in Fintech. Fintech Startups and Entrepreneurship: Fintech startup ecosystem and venture capital funding, Lean startup methodology and product development, Business model innovation in Fintech, Leadership and team building in Fintech startups, Challenges and opportunities for Fintech entrepreneurship. Future of Fintech: Megatrends shaping the future of finance and Fintech, Technology and innovation in finance and Fintech, Geopolitical and macroeconomic factors influencing Fintech, Regulatory and policy implications for Fintech industry, Ethical and social considerations for the future of finance.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: 17. Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Risk Management in Fintech. (Case Study Learning) 18. Assignment 2: The students will be divided into groups and group discussions will be done on the Emerging Trends and Future Directions in Fintech Risk Management. (Participative Learning)				
Reference &Text book 1. "Data Smart: Using Data Science to Transform Information into Insight" by John W. Foreman 2. "Financial Modeling Using Excel and VBA" by Chandan Sengupta 3. "Business Analytics: Data Analysis & Decision Making" by S. Christian Albright, Wayne L. Winston, and Christopher J. Zappe				
Essential Reading/ Recommended Reading:				

<https://www.taylorfrancis.com/books/edit/10.4324/9780429292903/routledge-handbook-fintech-thomas-liaw>

<https://www2.deloitte.com/content/dam/Deloitte/us/Documents/finance/us-fintech-risk-and-compliance-management.pdf>

<https://www.pymnts.com/wp-content/uploads/2022/01/PYMNTS-FinTech-Risk-Management-Playbook-January-2022.pdf>

<https://josephscollege.ac.in/lms/uploads/pdf/material/FRM.pdf>

PU Resources Mention at least two links from KNIMBUS portal

E – Resources

https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&_t=1725871399557

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<https://campus.imarticus.org/lms/course/18212?subId=3312076>

https://imarticus.org/certified-investment-banking-operations-program/?utm_source=bing&utm_medium=cpc&utm_campaign=686908043&utm_campaignname=CIBOP_PanIndia_retail_Bing_botf_NBsearch&utm_term=finance%20courses&utm_adgroup=Investment%20Banking&utm_campaigntype=search&msclkid=139f270e7f591b84bfc94f5e1cd043d8

Case Studies

NPTEL link

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https://onlinecourses.swayam2.ac.in/imb25_mg94/preview

Content in this section should be mentioned as per the program grid.

Topics relevant to development of **“MANAGERIAL and CRITICAL THINKING SKILLS”**: Students shall be able to understand the Complex Concepts of Financial Management, Payment and lending.

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FIN5117	Course Title: Project Finance Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities					
Anti-requisites	NIL					
Course Description	To Apprise the students about identification of a Project, Feasibility analysis, Project appraisal Techniques, Project Financing, Project Control and Management Techniques					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYIBILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.					
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Examine the process of screening of ideas and carrying out appraisal for Projects. CO2: Understand the concept and application of Social Cost benefit Analysis CO3: Use Investment Evaluation Techniques for selection of Projects. CO4: Carry out Risk Analysis for business projects and identify alternative sources of financing. CO5: Apply project control and management techniques for project success.					
Course Content:						
Module 1	Introduction to Projects and their Appraisal	Case study	11. The Rise and Challenges of Buy-Now-Pay-Later (BNPL) & 12. Neobank Market Evolution and Consolidation		9 Sessions	
Topics: Project Definition, Project Identification, Project Life Cycle, Project Stakeholder Analysis, Feasibility study. Types of Project Appraisal (Brief Overview): Market and Demand Analysis, Technical Appraisal, Financial Appraisal, Economic Appraisal, Managerial Appraisal, and Social Appraisal.						
Module 2	Financial Appraisal	Case study	The Rise and Regulation of Cryptocurrency Markets		9 Sessions	
Topics: Components of Project Cost, Investment Evaluation Techniques: Non-Discounting Methods (Payback Period, Accounting Rate of Return), Discounting						

Methods (Net Present Value, Profitability Index, Internal Rate of Return (IRR), Modified Internal Rate of Return (MIRR)). Comparative analysis of Investment Evaluation Techniques, Investment Evaluation in Practice.				
Module 3	Project Risk Analysis	Case Study	3. Ant Financials' Super App Ecosystem 4. Tesla's Financial Services Innovation	9 Sessions
Topics: Risk Analysis and Management: Sources and Measures of Risk. Methods of Assessing Risk – Sensitivity Analysis, Scenario Analysis, Break-Even Analysis, Simulation Analysis, Decision Tree Analysis. Strategies for Risk Management.				
Module 4	Project Financing	Case Study	3. Mint's Personal Finance Management Revolution & 4. JPMorgan Chase's Digital Transformation Journey	9 Sessions
Topics: Sources of Financing – Internal Accruals, Equity Capital, Preference Capital, Debentures (or Bonds), Term Loans, Venture Capital, Private Equity, Venture Capital Vs Private Equity, Loan syndication.				
Module 5	Social Appraisal and Aspects of Project Management	Case Study	3. Stripe's API-First Product Strategy 4. Square's Hardware-Software Integration	9 Sessions
Topics: Social Appraisal: Rationale for Social Cost Benefit Analysis, Approaches of SCBA (UNIDO and Little-Mirrlees Approach Approach), Environment Impact Assessment (EIA) and Social Impact Assessment (SIA) of Projects. Relevant Case Studies. Network Techniques for Project Cost and Time Management (PERT & CPM) (theory only). Pre-Requisites for Successful Project Implementation. Essentials of a Project Report.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: 19. Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Project Finance & Financial Management Analysis. (Case Study Learning)				

20. Assignment 2: The students will be divided into groups and group discussions will be done on the Project Finance and Appraisal. (Participative Learning)

Reference

Text book

1. Chandra, Prasanna: Projects – Planning, Analysis, Selection Financing, Implementation, and Review. 2019 Edition. McGraw Hill Education.
2. Agrawal, R., & Mehra, Y. S. (2017). Project Appraisal and Management. Taxman Publications.
3. Goodpasture, C. John: Quantitative Methods in Project Management. J. Ross Publishing.
4. A Guide to the Project Management Body of Knowledge, Project Management Institute

Essential Reading/ Recommended Reading:

<http://biitm.dspaces.org/bitstream/123456789/274/1/PROJECT%20APPRAISA%20AND%20FINANCING.pdf%20RKM%20Sir%202019>

<https://www.tutorialsduniya.com/notes/project-appraisal-and-analysis-notes/>

<https://documents1.worldbank.org/curated/en/099450005162250110/pdf/P17300600228b70070914b0b5edf26e2f9f.pdf>

<https://kb.icai.org/pdfs/PDFFile5b277f0b789451.53349096.pdf>

PU Resources Mention at least two links from KNIMBUS portal

E – Resources

<https://campus.imarticus.org/lms/course/18165?subId=3312069>

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<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling& t=1725871551070>

https://alison.com/course/fintech-applications-and-future-prospects?utm_source=bing&utm_medium=cpc&utm_campaign=531498933&utm_content=1348003793029632&utm_term=kwd-84251402798678:loc-90&msclkid=fb5b8e40d87e156f6307e60fe954a3d5#google_vignette

https://www.udemy.com/course/practice-exams-lean-six-sigma-black-belt/?utm_source=bing&utm_medium=udemyads&utm_campaign=BG-Search DSA Beta Prof Ia.EN cc.India&campaigntype=Search&portfolio=Bing-India&language=EN&product=Course&test=&audience=DSA&topic=&priority=Beta&utm_content=deal4584&utm_term=. ag 1316117806683075 . ad . kw Career+Development . de c . d m . pl . ti dat-2334057027983523%3Aloc-90 . li 149083 . pd . &matchtype=b&msclkid=d687f36c9e4716b253e59b23af6d4406&couponCode=PMNVD2025

Case Studies

NPTEL link

https://onlinecourses.nptel.ac.in/noc25_mg153/preview

https://archive.nptel.ac.in/content/syllabus_pdf/105103133.pdf

Content in this section should be mentioned as per the program grid.

Topics relevant to development of **“MANAGERIAL and CRITICAL THINKING SKILLS”**: Students shall be able to understand the Complex Concepts of Financial Management and Technology.

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6, June, 2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25, July, 2025

Course Code: FTH5120	Course Title: Banking and Fintech Platforms (SAP/UPI/Finacle) Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					
Course Description	Investment Management, as an academic discipline, is constantly changing and stimulating. This course provides a comprehensive overview of investment and portfolio management, focusing on the theories, tools, and techniques used in making sound investment decisions. Students will learn how to construct and manage investment portfolios, evaluate their performance, and adjust strategies to align with changing market conditions. The course will also cover ethical and regulatory considerations in investment management.					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY” : Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.					
Course Out Comes	On successful completion of the course the students shall be able to: 1. Understand the fundamental architecture and functionality of major banking platforms. 2. Analyze the integration of traditional banking systems with modern fintech solutions. 3. Evaluate the impact of digital payment systems on banking operations. 4. Design strategic implementations of banking technology platforms. 5. Assess regulatory compliance requirements in banking technology.					

Course Content:				
Module 1	Introduction to Banking Technology Ecosystem	Case study	13. Innovation lab initiatives in leading banks	9 Sessions
Introduction to Banking Technology Ecosystem: Evolution of banking technology from legacy systems to modern platforms, Overview of core banking systems and their significance, Introduction to SAP Banking, UPI ecosystem, and Finacle platform, Digital transformation trends in banking sector, Technology stack components in modern banking. Core Banking Systems Architecture: Fundamental principles of core banking systems, System architecture patterns in banking, Database management in banking applications, Real-time processing vs batch processing.				
Module 2	SAP Banking Solutions – Fundamentals	Case study	3. Major bank's SAP Banking transformation journey	9 Sessions
Topics: SAP Banking Solutions – Fundamentals: SAP Banking Suite overview and components, SAP Bank Analyzer functionality, Customer relationship management in SAP Banking, Product lifecycle management, Risk management modules, Regulatory reporting capabilities. SAP Banking - Advanced Features and Implementation: SAP Banking implementation methodologies, Customization and configuration options, Integration with third-party systems, Data migration strategies, Performance optimization techniques, Change management in SAP Banking implementations.				
Module 3	Unified Payments Interface (UPI)	Case Study	2. PhonePe or Google Pay UPI implementation strategy	9 Sessions
Unified Payments Interface (UPI) - Architecture and Components: UPI ecosystem architecture and stakeholders, NPCI role and governance framework, UPI technical specifications and APIs, Payment service provider (PSP) functionalities, Third-party application provider (TPAP) integration, UPI 2.0 and advanced features. UPI Implementation and Business Models: UPI onboarding processes for banks and fintech, Revenue models in UPI ecosystem, Merchant payment solutions through UPI, UPI AutoPay and recurring payments, International expansion strategies, Competitive analysis of UPI apps.				
Module 4	Finacle Platform - Core Banking Operations	Case Study	9. Regional bank's digital transformation using Finacle	9 Sessions
Topics: Finacle Platform - Core Banking Operations: Finacle architecture and modules overview, Customer information file (CIF) management, Account management and transaction processing, Loan origination and management systems, Deposit products and interest calculations, Multi-currency and multi-branch operations, Finacle - Digital Banking and Channel Management: Finacle digital banking suite, Omnichannel banking architecture. Mobile banking platform integration, Internet banking solutions, ATM and kiosk channel management, Customer experience optimization.				
Module 5	Integration Strategies and API Management	Case Study	2. Compliance implementation in a multi-platform banking environment.	9 Sessions

			3. Large bank's core banking platform migration project	
Integration Strategies and API Management: API-first architecture in banking, Microservices implementation in banking platforms, Open banking standards and PSD2 compliance, API security and authentication mechanisms, Third-party integration patterns, Cloud-native banking solutions. Regulatory Compliance and Risk Management: Regulatory landscape for banking technology, AML and KYC compliance in digital platforms, Data privacy regulations (GDPR, CCPA) impact, Cybersecurity frameworks for banking, Audit trails and compliance reporting, RegTech solutions integration. Data Analytics and Business Intelligence: Data warehouse architecture in banking, Customer analytics and segmentation, Predictive modeling for banking products, Fraud detection and prevention systems, Performance dashboards and KPI tracking, Machine learning applications in banking				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Sustainable Finance in Fintech, Policies, and Management Techniques. (Case Study Learning) Assignment 2: The students will be divided into groups and group discussions will be done on the Global FinTech Regulations. (Participative Learning)				
Reference &Text book 1. "Core Banking Systems: Technology and Operations" by banking technology specialists 2. "Digital Banking: Understanding the Digital Transformation of Banking" by industry experts 3. "SAP Banking Implementation Guide" - Official SAP documentation 4. "UPI and Digital Payments Ecosystem" by fintech researchers 5. "Finacle Platform Administration Manual" - Infosys documentation				
Essential Reading/ Recommended Reading: • SAP Learning Hub for Banking modules • NPCI official documentation and developer resources • Infosys Finacle community forums and documentation • Banking technology industry reports from major consulting firms PU Resources Mention at least two links from KNIMBUS portal https://www.udemy.com/course/cyber-security-fundamentals/?utm_source=bing&utm_medium=udemyads&utm_campaign=BG-Search_DSA_Beta_Prof_Ia.EN_cc.India&campaigntype=Search&portfolio=Bing-India&language=EN&product=Course&test=&audience=DSA&topic=&priority=Beta&utm_content=deal4584&utm_term=.ag_1318316830212069.ad.kw_Engineering.de_c.dm.pl.ti_dat-2334194466907544%3Aloc-90.li_149083.pd.&matchtype=b&msclkid=aa77b9f54756103d1772d1a51f686107&couponCode=PMNVD2025 E – Resources https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&t=1725871399557				

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling& t=1725871551070>

<https://campus.imarticus.org/lms/course/18212?subId=3312076>

Case Studies

NPTEL link

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Content in this section should be mentioned as per the program grid.

Topics relevant to development of **“MANAGERIAL and CRITICAL THINKING SKILLS”**: Students shall be able to understand the Complex Concepts of Financial Management, RPA and Fintech

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6, June, 2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25, July, 2025

Course Code: FTH5121	Course Title: E-Commerce & E-Market place Type of Core: Major Core	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	- Basic Communication - Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). - Marketing Management, Operations Research, Financial Analysis, Business Strategy					
Anti-requisites	NIL					
Course Description	This specialized course develops advanced competencies in electronic commerce strategy and digital marketplace orchestration. Students examine the intersection of technology, consumer behavior, and business strategy within digital commercial ecosystems. The curriculum emphasizes strategic thinking, analytical problem-solving, and practical implementation skills necessary for leading digital commerce transformations in contemporary business environments.					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYABILITY” : Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their Marketing Management, Operations Research, Financial Analysis, Business Strategy skills through practical applications and participative learning techniques.					

Course Out Comes	On successful completion of the course the students shall be able to: 1. Architect multi-sided marketplace strategies with sustainable competitive advantages. 2. Optimize digital commerce operations across customer touchpoints and backend systems. 3. Develop comprehensive financial models for e-commerce ventures and marketplace platforms. 4. Navigate international digital commerce regulations, cultural considerations, and expansion strategies. 5. Anticipate emerging trends and position organizations for future digital commerce evolution.			
Course Content:				
Module 1	Digital Commerce Architecture and Business Model Innovation	Case study	14. Chewy's Pet Care E-commerce Disruption Strategy	9 Sessions
Digital commerce ecosystem mapping and value chain analysis; Business model taxonomy: Transactional, subscription, platform, and hybrid architectures; Strategic positioning within digital value networks; Competitive intelligence and market structure analysis; Digital transformation pathways for traditional enterprises. Multi-Sided Platform Economics and Marketplace Orchestration: Develop expertise in platform strategy and multi-sided market dynamics: Platform economics theory and network externality management; multi-sided marketplace design principles and governance structures; Platform ecosystem development and partner relationship management; Competitive dynamics in winner-take-all digital markets; Platform monetization strategies and revenue optimization.				
Module 2	Consumer Psychology and Digital Experience Optimization	Case study	4. Etsy's Creative Marketplace Evolution and Community Building	9 Sessions
Topics: Digital consumer behavior patterns and decision-making processes; User experience design principles for commercial applications; Conversion optimization methodologies and testing frameworks; Personalization strategies and implementation approaches; Customer journey mapping and touchpoint optimization. Digital Marketing Strategy and Customer Acquisition Excellence: Integrated digital marketing campaign development and execution; Search engine optimization and search engine marketing strategies; Social commerce and influencer partnership management; Content marketing and brand storytelling for digital platforms; Marketing automation and customer lifecycle management.				
Module 3	Supply Chain Innovation and Fulfillment Excellence	Case Study	3. Sephora's Digital Beauty Experience Integration 4. Patagonia's Sustainable E-commerce Supply Chain Leadership	9 Sessions

Topics E-commerce supply chain architecture and optimization strategies; Inventory management systems and demand forecasting methodologies; Fulfillment center operations and distribution network design; Last-mile delivery innovation and customer satisfaction optimization; Reverse logistics and returns management excellence. Financial Management and Performance Analytics: E-commerce financial modeling and valuation methodologies; Key performance indicator development and dashboard design; Revenue forecasting and scenario planning techniques; Working capital management and cash flow optimization; Investment analysis and capital allocation strategies.				
Module 4	Technology Infrastructure and Digital Platform Management	Case Study	10. Glossier's Community-Driven Brand Building Strategy	9 Sessions
Topics: E-commerce platform selection and customization strategies; Cloud infrastructure management and scalability planning; Data architecture and analytics platform integration; Cybersecurity and fraud prevention systems; Mobile commerce and progressive web application development. International Expansion and Cross-Border Commerce: International market entry strategies and timing considerations; Cross-border payment systems and currency management; Cultural adaptation and localization strategies; International regulatory compliance and legal frameworks; Global supply chain and logistics coordination.				
Module 5	Fintech Business Models and Innovation	Case Study	1. Casper's Sleep Industry Disruption	9 Sessions
Strategic planning integration and implementation roadmaps; Change management and organizational transformation; Performance measurement and continuous improvement systems; Leadership development and team management in digital environments; Long-term value creation and competitive advantage sustainability. Innovation Management and Future Commerce Trends: Emerging technology assessment and adoption strategies; Innovation management frameworks for digital commerce; Trend analysis and strategic foresight methodologies; Sustainable commerce and circular economy business models; Regulatory evolution and compliance planning.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Marketing Management, Operations Research, in Fintech, Policies, and Management Techniques. (Case Study Learning) Assignment 2: The students will be divided into groups and group discussions will be done on the Financial Analysis, Business Strategy. (Participative Learning)				
Reference &Text book 1. Strategic E-Commerce Systems Management, Author: Chen, L. & Rodriguez, M. (2024), - Publisher: Business Strategy Press. 2. Digital Marketplace Economics and Platform Strategy, Author: Thompson, K., Singh, R. & Williams, D. (2024), Publisher: Platform Economics Institute. 3. Consumer Behavior in Digital Commerce Environments, Author: Johnson, A. & Park, S. (2024) Publisher: Consumer Research Publications.				

Essential Reading/ Recommended Reading:

1. Davis, M., et al. (2024). "Platform Competition and Market Structure Evolution." Strategic Management Journal, 45(3), 278-302.
2. Kumar, V. & Lee, H. (2024). "Cross-Border E-commerce Success Factors: A Multi-Country Analysis." International Business Review, 33(2), 145-162.
3. Brown, S., Martinez, C. & Zhang, W. (2024). "Supply Chain Innovation in Digital Commerce: Technology Integration and Performance Outcomes." Operations Management Research, 17(1), 89-107.

PU Resources Mention at least two links from KNIMBUS portal

https://imarticus.org/certified-investment-banking-operations-program/?utm_source=bing&utm_medium=cpc&utm_campaign=686908043&utm_campaignname=CIBOP_PanIndia_retail_Bing_botf_NBsearch&utm_term=finance%20classes&utm_adgroup=Investment%20Banking&utm_campaigntype=search&msclkid=2034fb0a8910125780fb935191575564

E – Resources

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&t=1725871399557>

<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling&t=1725871551070>

<https://campus.imarticus.org/lms/course/18212?subId=3312076>

Case Studies**NPTEL link**

https://onlinecourses.swayam2.ac.in/imb25_mg94/preview

https://onlinecourses.nptel.ac.in/noc19_mg54/preview

https://onlinecourses.swayam2.ac.in/nou21_cm14/preview

https://onlinecourses.swayam2.ac.in/cec23_cm02/preview

Content in this section should be mentioned as per the program grid.

Topics relevant to development of **“MANAGERIAL and CRITICAL THINKING SKILLS”**: Students shall be able to understand the Complex Concepts of Financial Management, Cyber security in Fintech

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the	Academic Council Meeting No. 26th held on 25,July,2025

Academic Council	
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Course Code: FTH5122	Course Title: Mergers and Acquisitions	L- T- P- C	2	1	0	3
	Type of Course: Specialization Track Elective					
Version No.	1.0					
Course Pre-requisites	Financial Accounting and Reporting – FIN4111					
Anti-requisites	Nil					
Course Description	Nil					
Course Outcomes	1. Understand corporate merger and acquisition activity. 2. Analyze the mergers & acquisition deals that have taken place in the recent past. 3. Understand synergies of mergers & acquisition deals. 4. Compute the valuation associated with M&A. 5. Understand the human and cultural aspects of M&A's					
Course Objective:	1. To facilitate understanding of corporate merger and acquisition activity and restructuring 2. To communicate to the students the role that M&A plays in the contemporary corporate world. 3. To understand how to use M & A as a strategic tool. 4. To compare and contrast the various forms of corporate restructuring. 5. To assess human and cultural aspects of M&A's.					
Module 1	Introduction to Merger	Quiz (Participative Learning)				11 Sessions
Mergers- types of merger– theories of mergers- operating, financial and managerial synergy of mergers – value creation in horizontal, vertical and conglomerate mergers – internal and external change forces contributing to M & A activities- Impact of M & A on stakeholders. M & A – A strategic perspective- industry life cycle and product life cycle analysis in M&A decision, strategic approaches to M&A- SWOT analysis, BCG matrix.						
Module 2	Corporate Restructuring	Assignment (Participative Learning)				11 Sessions
Corporate restructuring – significance - forms of restructuring – joint ventures – sell off and spin off – divestitures – equity carve out – leveraged buy outs (LBO) – management buy outs – master limited partnership– Limited Liability Partnership (LLP) in India: Nature and 91 incorporation of LLP- De merger- strategic alliance- buyback of shares.						
Module 3	Merger Process	Case analysis (Experiential Learning)				11 Sessions
Merger Process: Dynamics of M&A process - identification of targets – negotiation - closing the deal. Five-stage model – Due diligence– Types - due diligence strategy and process - due diligence challenges. Process of merger integration – organizational and human aspects – managerial challenges of M & A.						

Methods of financing mergers – cash offer, share exchange ratio – mergers as a capital budgeting decision Synergies from M&A: Operating and Financial synergy Accounting for amalgamation – amalgamation in the nature of merger and amalgamation in the nature of purchase- pooling of interest method, purchase method – procedure laid down under Indian companies act of 1956				
Module 4	Takeovers	Assignment (Participative Learning)		12 Sessions
Takeovers, types, takeover strategies, - Takeover defences – financial defensive measures – methods of resistance – anti-takeover amendments – poison pills Legal aspects of Mergers/amalgamations and acquisitions/takeovers- Combination and Competition Act- Competition Commission of India (CCI), The SEBI Substantial Acquisition of Shares and Takeover code				
Targeted Application & Tools that can be used:				
Project work/Assignment:				
• Pick up any latest M&A deal. • Generate the details of the deal and then study the deal in the light of the following. • Nature of the deal: merger, acquisition, or takeover. If it is a merger, what type of merger is it? • Synergies likely to emerge to the combining and the combined firm(s) from the deal • The valuation for the merger • The basis for exchange rate determination				
REFERENCE MATERIALS:				
Text Book:				
T1: Mergers, Restructuring And Corporate Control, Fred Weston, Kwang S Chung, Susan E Hoag, 4/e, Pearson Education.				
T2: Corporate Finance-Theory And Practice – AswathDamodaran – John Wiley & Sons.				
Reference Books:				
R1: Takeovers, Restructuring And Corporate Governance, Weston, Mitchell And Mulherin - 4/e, Pearson Education, 2003.				
R2: Mergers, Ramanujam et al, TMH, 2003.				
Research Articles in Journals				
Case Studies:				
Catalogue prepared by	Dr. Sunil M Rashinkar			
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025			
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025			

Course Code: FTH5123	Course Title: Algorithmic Trading Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel).					

	Knowledge of Managerial Activities, Financial Activities of the market.			
Anti-requisites	NIL			
Course Description	- This course explores the intersection of financial technology algorithmic trading and analyze successful fintech business models and their value propositions - Evaluate the competitive dynamics between fintech startups and incumbent banks - Design fintech solutions for specific market segments			
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYIBILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.			
Course Out Comes	On successful completion of the course the students shall be able to: - Understand the evolution and impact of algorithmic trading on modern financial markets - Analyze trading strategies and their risk-return profiles using quantitative methods - Evaluate fintech business models and their disruption potential in financial services - Design algorithmic trading frameworks and assess their implementation feasibility - Navigate regulatory and ethical considerations in automated trading systems - Lead fintech innovation initiatives and digital transformation in financial institutions			
Course Content:				
Module 1	Introduction to Algorithmic Trading and Fintech Landscape	Case study	Long-Term Capital Management (LTCM): Risk Management Lessons	9 Sessions
Historical Evolution of Trading: From pit trading to electronic markets, Rise of high-frequency trading (HFT), Market microstructure changes. Fintech Ecosystem Overview: Traditional finance vs. fintech disruption, Key fintech verticals: payments, lending, trading, wealth management, Regulatory technology (RegTech) and compliance automation, Market Structure and Participants: Institutional vs. retail algorithmic trading, Market makers, arbitrageurs, and trend followers, Dark pools and alternative trading systems (ATS).				
Module 2	Market Data, Infrastructure, and Technology Foundations	Case study	FTX Exchange: Rise and Fall of a Crypto Giant	9 Sessions
Topics: Market Data Fundamentals: Level I, II, and III market data, Real-time vs. historical data considerations, Data vendors and cost structures (Bloomberg, Reuters, exchanges); Trading Infrastructure: Low-latency trading systems and co-location. Order management systems (OMS) and execution management systems (EMS), Risk management and compliance systems. Fintech				

Technology Stack: Cloud-first architecture in financial services, API economy and open banking, Blockchain and distributed ledger technology applications. Momentum and Mean Reversion: Momentum Strategies: Technical indicators: moving averages, RSI, MACD; Cross-sectional and time-series momentum; Momentum crashes and risk management. Mean Reversion Strategies: Statistical arbitrage and pairs trading; Cointegration and error correction models; Market-neutral strategies.				
Module 3	Alternative Data and Machine Learning in Trading & Cryptocurrency and Digital Asset Trading	Case Study	Knight Capital Group: Technology Risk and Regulatory Response Stripe: Building the Economic Infrastructure of the Internet	9 Sessions
Topics: Alternative Data Sources: Satellite imagery, credit card transactions, social media sentiment; Web scraping and news analytics; ESG data and sustainability metrics in trading. Machine Learning Applications: Supervised learning for return prediction; Unsupervised learning for regime detection; Reinforcement learning for strategy optimization. Natural Language Processing (NLP): News sentiment analysis and trading signals; Earnings call transcripts and management tone; Social media sentiment and retail investor behavior. Cryptocurrency Market Structure: Centralized vs. decentralized exchanges; Market making and liquidity in crypto markets; Regulatory landscape and compliance challenges; Digital Asset Trading Strategies: Cross-exchange arbitrage opportunities; DeFi yield farming and liquidity mining; Options and derivatives in crypto markets. Blockchain and DeFi Applications: Automated market makers (AMMs) and liquidity protocols; Flash loans and MEV (Maximal Extractable Value); Smart contract risks and security considerations.				
Module 4	Regulatory Framework and Compliance	Case Study	Flash Crash of 2010: Algorithmic Trading and Market Stability	9 Sessions
Topics: Global Regulatory Landscape: MiFID II in Europe and its algorithmic trading provisions; SEC regulations in the United States; CFTC oversight of derivatives and commodities trading. Compliance and Reporting: Best execution requirements and transaction cost analysis; Algorithmic trading notifications and testing requirements; Market abuse detection and surveillance systems. Fintech Regulation and Innovation: Regulatory sandboxes and innovation hubs; Open banking and PSD2 compliance; Central bank digital currencies (CBDCs) and their implications.				
Module 5	Fintech Business Models and Innovation	Case Study	Ant Financial: Super App and Financial Ecosystem	9 Sessions
Topics: Payments and remittances (Stripe, Square, Wise); Digital lending and credit assessment (Affirm, Klarna, Lending Club); Wealth management and robo-advisors (Betterment, Wealth front). Platform Economics in Finance: Network effects and marketplace dynamics; API-based business models and embedded finance; Data monetization and cross-selling strategies. Disruption and Incumbency: Banking-as-a-Service (BaaS) and white-label solutions; Partnership strategies between fintech and traditional banks; Regulatory arbitrage and competitive advantages.				
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method				
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course:				

Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Sustainable Finance in Fintech, Policies, and Management Techniques. (Case Study Learning)

Assignment 2: The students will be divided into groups and group discussions will be done on the Global FinTech Regulations. (Participative Learning)

Reference &Text book

1. "Algorithmic Trading: Winning Strategies and Their Rationale" by Ernest P. Chan
2. "Quantitative Trading: How to Build Your Own Algorithmic Trading Business" by Ernest P. Chan
3. "The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries" by Susanne Chishti and Janos Barberis
4. "Flash Boys: A Wall Street Revolt" by Michael Lewis
5. "Dark Pools: The Rise of the Machine Traders and the Rigging of the U.S. Stock Market" by Scott Patterson
6. "The Man Who Solved the Market: How Jim Simons Launched the Quant Revolution" by Gregory Zuckerman
7. "Python for Finance: Mastering Data-Driven Finance" by Yves Hilpisch
8. "Machine Learning for Algorithmic Trading" by Stefan Jansen

Essential Reading/ Recommended Reading:

<https://www.techradar.com/best/best-online-cyber-security-courses>

PU Resources Mention at least two links from KNIMBUS portal

https://imarticus.org/certified-investment-banking-operations-program/?utm_source=bing&utm_medium=cpc&utm_campaign=686908043&utm_campaignname=CIBOP_PanIndia_retail_Bing_botf_NBsearch&utm_term=finance%20classes&utm_adgroup=Investment%20Banking&utm_campaigntype=search&msclkid=2034fb0a8910125780fb935191575564

E – Resources

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<https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling&t=1725871551070>

<https://campus.imarticus.org/lms/course/18212?subId=3312076>

Case Studies

NPTEL link

https://onlinecourses.swayam2.ac.in/imb25_mg94/preview

<https://archive.nptel.ac.in/courses/110/107/110107128/>

Content in this section should be mentioned as per the program grid.

Topics relevant to development of **“MANAGERIAL and CRITICAL THINKING SKILLS”**: Students shall be able to understand the Complex Concepts of Financial Management, Cyber security in Fintech

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5124	Course Title: Robotic Process Automation Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					
Course Description	The course covers the basics of RPA, such as its definition, benefits, and limitations. Students will learn how to design, build, and deploy RPA bots using popular RPA tools, such as Blue Prism, UiPath, and Automation Anywhere. Students will also learn how to identify, prioritize, and automate repetitive and rule-based business processes.					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYIBILITY”: Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.					
Course Out Comes	On successful completion of the course the students shall be able to: 1. Describe RPA, where it can be applied and how it's implemented. 2. Describe the different types of variables, Control Flow and data manipulation techniques. 3. Identify and understand Image, Text and Data Tables Automation 4. Describe how to handle the User Events and various types of Exceptions and strategies. 5. Examine the data from PDF and understand the concept of Bots and Triggers					
Course Content:						
Module 1	Introduction to Robotic Process Automation	Case study	15. JPMorgan Chase: COiN Platform Implementation			9 Sessions

Topics: Introduction: Scope and techniques of automation, Robotic process automation - What can RPA do, Benefits of RPA, Components of RPA, RPA platforms, The future of automation. RPA Basics: History of Automation, what is RPA, RPA vs Automation, Processes & Flowcharts, Programming Constructs in RPA, What Processes can be Automated, Types of Bots, Workloads which can be automated. RPA Advanced Concepts: RPA Advanced Concepts, Standardization of processes, RPA Development methodologies, Difference from SDLC, Robotic control flow architecture, RPA business case, RPA Team, Process Design Document/Solution Design Document, Industries best suited for RPA, Risks & Challenges with RPA, RPA and emerging ecosystem.				
Module 2	Tools and Techniques of RPA	Case study	5. Deutsche Bank: Multi-Tool RPA Implementation	9 Sessions
Topics: RPA Tool – I: The User Interface, Variables, Managing Variables, Naming Best Practices, The Variables Panel, Generic Value Variables, Text Variables, True or False Variables, Number Variables, Array Variables, Date and Time Variables, Data Table Variables. RPA Tool – II: Naming Best Practices, The Arguments Panel, Using Arguments, About Imported Namespaces, Importing New Namespaces, Control Flow, Control Flow Introduction, If Else Statements, Loops, Advanced Control Flow, Sequences, Flowcharts, About Control Flow, Control Flow Activities. Activity & Data Manipulation: Control Flow Activities, The Assign Activity, The Delay Activity, The Do While Activity, The If Activity, The Switch Activity, The While Activity, The For Each Activity, The Break Activity, Data Manipulation, Data Manipulation Introduction, Scalar variables, collections and Tables, Text Manipulation, Data Manipulation, Gathering and Assembling Data.				
Module 3	Advanced Automation of RPA	Case Study	5. Heritage Bank: Financial Crimes Detection Automation	9 Sessions
Topics: Advanced Automation – I: Recording Introduction, Basic and Desktop Recording, Web Recording, Input/Output Methods, Screen Scraping, Data Scraping, Scraping advanced techniques, Selectors, Defining and Assessing Selectors, Customization. Advanced Automation – II: Debugging, Dynamic Selectors, Partial Selectors, RPA Challenge, Image, Text & Advanced Citrix Automation, Introduction to Image & Text Automation, Image based automation, Keyboard based automation, Information Retrieval, Advanced Citrix Automation challenges, Best Practices. Excel & IT: Using tab for Images, Starting Apps, Excel Data Tables & PDF - Data Tables in RPA - Excel and Data Table basics - Data Manipulation in excel – Extracting.				
Module 4	Information Technology and RPA	Case Study	11. Eurobank: Core Banking Process Integration	9 Sessions
Topics: Information Technology: Data from PDF, extracting a single piece of data, UiPath PDF Data Extraction, Anchors, Using anchors in PDF. Handling Bots: What are assistant bots, Monitoring system event triggers, Hotkey trigger, Mouse trigger, System trigger, Monitoring image and element triggers. User Events: An example of monitoring email, Example of monitoring a copying event and blocking it, Launching an assistant bot on a keyboard event.				
Module 5	Exception Handling of RPA	Case Study	4. Global Fintech Startup: Banking Multi-Service Platform	9 Sessions

Topics: Exception Handling: Debugging and Exception Handling, Debugging Tools, Strategies for solving issues, Catching errors. Deploying and Maintaining The Bot – I: Publishing using publish utility, Creation of Server, Using Server to control the bots, Creating a provision Robot from the Server. Deploying and Maintaining the Bot – II: Connecting a Robot to Server, Deploy the Robot to Server, Publishing and managing updates, managing packages, uploading packages, Deleting packages.
Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Sustainable Finance in Fintech, Policies, and Management Techniques. (Case Study Learning) Assignment 2: The students will be divided into groups and group discussions will be done on the Global FinTech Regulations. (Participative Learning)
Reference &Text book 1. "Robotic Process Automation: A Primer" by Rajeev K. Sharma 2. "Robotic Process Automation with Blue Prism Quick Start Guide" by Rajat Bhargava 3. "Learning Robotic Process Automation: Create software robots and automate business processes with the leading RPA tool – UiPath" by Alok Mani Tripathi
Essential Reading/ Recommended Reading: https://download.e-bookshelf.de/download/0013/5597/13/L-G-0013559713-0040760194.pdf https://ijcem.in/wp-content/uploads/ROBOTIC-PROCESS-AUTOMATION-IN-FINTECH-TRANSFORMING-FINANCIAL-SERVICES.pdf https://bpmtraining.net/wp-content/uploads/2020/06/robotic_process_automation_for_dummies.pdf https://archive.org/details/roboticprocessau0000laci PU Resources Mention at least two links from KNIMBUS portal https://www.udemy.com/course/cyber-security-fundamentals/?utm_source=bing&utm_medium=udemyads&utm_campaign=BG-Search_DSA_Beta_Prof_Ia.EN_cc.India&campaigntype=Search&portfolio=Bing-India&language=EN&product=Course&test=&audience=DSA&topic=&priority=Beta&utm_content=deal4584&utm_term=.ag_1318316830212069.ad.kw_Engineering.de.c.dm.pl.ti_dat-2334194466907544%3Aloc-90.li_149083.pd.&matchtype=b&msclkid=aa77b9f54756103d1772d1a51f686107&couponCode=PMNVD2025 E – Resources https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Managent&t=1725871399557 https://presiuniv.knimbus.com/user#/searchresult?searchId=financial%20Modelling&t=1725871551070 https://campus.imarticus.org/lms/course/18212?subId=3312076 Case Studies

NPTEL link https://onlinecourses.nptel.ac.in/noc21_me67/preview	
Content in this section should be mentioned as per the program grid. Topics relevant to development of “MANAGERIAL and CRITICAL THINKING SKILLS” : Students shall be able to understand the Complex Concepts of Financial Management, RPA and Fintech	
Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
Date of Approval by the Academic Council	Academic Council Meeting No. 26th held on 25,July,2025

Course Code: FTH5125	Course Title: Sustainable Finance in Fintech Type of Course: Specialization Track Elective	L- T- P- C	2	1	0	3
Version No.	1.0					
Course Pre-requisites	• Basic Communication • Basic understanding of finance and accounting principles, as well as proficiency in spreadsheet software (e.g., Microsoft Excel). • Knowledge of Managerial Activities, Financial Activities of the market.					
Anti-requisites	NIL					
Course Description	This course explores the intersection of financial technology and sustainable finance, focusing on innovative solutions and their applications in achieving global sustainability goals. Students will gain insights into key technologies, sustainable financial practices, and regulatory frameworks, equipping them with the knowledge and skills to navigate the evolving landscape of financial systems.					
Course Objective	Topics relevant to “SKILL DEVELOPMENT” and “EMPLOYIBILITY” : Students will be able to develop themselves as Finance professionals, analysts, accountants, business managers, and anyone interested in developing their financial modelling skills through practical applications and participative learning techniques.					
Course Out Comes	On successful completion of the course the students shall be able to: 6. Explore the role of FinTech in reshaping financial services. 7. Understand the principles and practices of sustainable finance. 8. Analyze the integration of FinTech and sustainable finance to meet ESG goals. 9. Evaluate regulatory frameworks and ethical considerations in FinTech and sustainable finance. 10. Identify and understand emerging trends and their implications.					

Course Content:				
Module 1	Foundations of FinTech and Sustainable Finance	Case study	16. Wealthsimple - ESG-Integrated Robo-Advisory Platform	9 Sessions
Topics: Evolution of FinTech; Technologies like blockchain, AI, ML, IoT, RPA, Cloud computing and Big Data. Principles of sustainable finance: ESG criteria and UN Sustainable Development Goals (SDGs), Sustainable Investment Products, Impact Investing and Measuring Social and Environmental Impact Integrating FinTech and Sustainable Finance: Synergies between FinTech and sustainable finance with real-world examples- The Role of Blockchain in Promoting Sustainable Finance, Innovations in Eco-Friendly Financial Products, Impact Investing and the Role of Digital Platforms, Digital Financial Inclusion: Its Role in Sustainable Development				
Module 2	Technologies Driving FinTech	Case study	6. Blockchain-Based Green Bond Issuance	9 Sessions
Topics: Blockchain and Cryptocurrency; Decentralized finance (DeFi), distributed ledger, immutability, consensus mechanism, risks, and applications, NFTs (Non-Fungible Tokens), Smart Contracts and DApps (Decentralized Applications), Popular cryptocurrencies (e.g., Bitcoin, Ethereum), Cryptocurrency wallets and Exchanges. Artificial Intelligence and Machine Learning: Role in conventional credit scoring, Alternate Credit Scoring Models, fraud detection, and robo- advisors. Digital Payment Systems: Mobile wallets, P2P platforms, and central bank digital currencies (CBDCs).				
Module 3	Tools and Strategies in Sustainable Finance	Case Study	6. Energy Web Chain - Blockchain for Renewable Energy	9 Sessions
Topics: Green Bonds and Climate Finance: Characteristics, types (Standard green bonds, Sustainability-linked bonds, Green project bonds, Green securitized bonds), Certification and Standards for Green Bonds, trends, Global climate, finance mechanisms (e.g., Green Climate Fund, Adaptation Fund) and global adoption. ESG Investment Strategies: Integration of ESG criteria into investment decisions, thematic investing, impact investing, ESG-focused investment funds, ESG ETFs and index funds. Fintech for Carbon Markets and Trading: Carbon credit trading platforms, Fintech solutions for carbon offsets, Innovations in carbon, markets, Blockchain for carbon tracking, Innovative Financing Models: Social Bonds and Blue Bonds, Green Loans, Carbon Credits and Trading, Crowdfunding, impact investing, and FinTech's role in sustainability.				
Module 4	Regulatory and Ethical Frameworks	Case Study	12. Eneco's Green Bond Issuance with FinTech Integration	9 Sessions
Topics: Global FinTech Regulations: PSD2, GDPR, AML, KYC, CFT, RBI Guidelines, and challenges in decentralized systems, Ethical Sustainability and Risk Management: Climate risk disclosures and sustainable reporting standards, Ethical Considerations: Addressing AI bias, data privacy, and ethical investing practices.				
Module 5	Future Trends and Innovations	Case Study	5. Climate FinTech Alliance - Ecosystem Development	9 Sessions

Topics: Emerging FinTech Trends: Tokenization, metaverse applications, and quantum computing, Advancements in Sustainable Finance: Innovations in ESG reporting and green finance tools-Blockchain for ESG Transparency, ESG, Rating Agencies and Methodologies, Social and Sustainability Bonds, Carbon Trading and Offsets, Green Securitization, Transition Finance. Strategic Insights: Integration of FinTech and sustainability for global impact- Carbon-Neutral Payments, Environmental and Social Regulatory Compliance, Sustainability Scoring and Rating, FinTech for Circular Economy, Automated Sustainable Investment Portfolios.

Targeted Application & Tools that can be used: PPT, Videos and board & Chalk Method

Project work/Assignment: Mention the Type of Project /Assignment proposed for this course:

Assignment 1: Written assignment should be submitted where the students will have to identify the various concepts of Sustainable Finance in Fintech, Policies, and Management Techniques. (Case Study Learning)

Assignment 2: The students will be divided into groups and group discussions will be done on the Global FinTech Regulations. (Participative Learning)

Reference &Text book

1. Fintech and Financial Inclusion: Leveraging Digital Finance for Economic Empowerment and Sustainable Growth by Vikas Sharma, Munish Gupta, Nilesh Arora, Aijaz A. Shaikh
Routledge, Chapman & Hall, Incorporated, 21 Mar 2025 - Business & Economics

2.Fintech and Sustainability: How Financial Technologies Can Help Address Today's Environmental and Societal Challenges. (2023). Switzerland: Palgrave Macmillan.

3.The Sustainable Fintech Revolution: Building a Greener Future for Finance. (2023). Indonesia: IGI Global Publisher of Timely Knowledge.

4.Mariz, F. D. (2022). Finance with a Purpose: FinTech, Developement and Inclusion in the Global Economy. United Kingdom: World Scientific.

5.Schoenmaker, D., Schramade, W. (2019). Principles of Sustainable Finance. United Kingdom: Oxford University Press.

Essential Reading/ Recommended Reading:

<https://www.techradar.com/best/best-online-cyber-security-courses>

https://archive.org/details/cyber-security_202402

PU Resources Mention at least two links from KNIMBUS portal

https://www.udemy.com/course/cyber-security-fundamentals/?utm_source=bing&utm_medium=udemyads&utm_campaign=BG-Search_DSA_Beta_Prof_Ia.EN_cc.India&campaigntype=Search&portfolio=Bing-India&language=EN&product=Course&test=&audience=DSA&topic=&priority=Beta&utm_content=deal4584&utm_term=.ag_1318316830212069.ad.kw_Engineering.de.c.dm.pl.ti_dat-2334194466907544%3Aloc-90.li_149083.pd.&matchtype=b&msclkid=aa77b9f54756103d1772d1a51f686107&couponCode=PMNVD2025

E – Resources

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Case Studies

NPTEL link

https://onlinecourses.nptel.ac.in/noc25_mg21/preview

<https://archive.nptel.ac.in/courses/110/107/110107128/>

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Topics relevant to development of “**MANAGERIAL and CRITICAL THINKING SKILLS**”: Students shall be able to understand the Complex Concepts of Financial Management, Cyber security in Fintech

Catalogue prepared by	Dr. Kshama Sharma Learning Head Imarticus Learning
Recommended by the Board of Studies on	BOS NO: 18th held on 6,June,2025
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PPS Courses

Course Code: PPS4010	Course Title: Corporate Readiness Program – I Type of Course: Practical Only Course	L- T - P- C	0	0	2	0
Version No.	1.0					
Course Pre-requisites	Students are expected to understand Basic English. Students should have inclination and enthusiasm to involve, participate and learn.					
Anti-requisites	Nil					
Course Description	This course is designed to enable students to develop strong behavioural, emotional, and career-readiness capabilities through a structured four-phase journey—Reflect, Innovate, Stimulate, and Elevate. The course focuses on building self-awareness, emotional intelligence, behavioural excellence, career clarity, and professional readiness through experiential learning, self-diagnostic tools (e.g., FIRO-B), simulations, and reflective practices, thereby preparing learners for effective workplace integration and placement success. As a semester-integrated initiative, it bridges academic learning with industry expectations, introducing structured self-awareness early, translating insights into observable behaviours, enabling evidence-based career mapping, and preparing for professional conduct and interviews.					
Course Out Comes	On successful completion of the course the students shall be able to: CO1: Identify career goals using self-diagnostic evidence CO2: Present a professional brand aligned to industry expectations CO3: Demonstrate behavioural excellence in teams, communication, and ethical decision-making					
Course objective	The objective of the course is to familiarize the learners with the concepts of "Corporate Readiness Program I course" and attain SKILL DEVELOPMENT through PARTICIPATIVE LEARNING techniques, including flipped classroom, activity-based simulations, and real-world applications.					
Course Content:						
Module 1	Reflect				8 Sessions	
Topics: Topics: Strong self-awareness foundation using FIRO-B, Psychological safety and interpersonal needs, Personality, values, and work identity, Emotional intelligence and self-regulation, Resilience, stress management, and professional maturity Activity: Self-assessments, guided reflection, facilitated discussions, activities, journaling						
Module 2	Innovate				8 Sessions	
Topics: Topics: Behavioural effectiveness at the workplace, Leadership mind-sets and decision-making, Collaboration, conflict management, and influence skills, Professional ethics and behavioural role modelling Activity: Case studies, role plays, group tasks, behavioural simulations						

Module 3	Stimulate			8 Sessions
Topics: Topics: Career awareness and industry expectations, Career mapping and role targeting, Skill gap analysis and employability alignment, Career action planning Activity: Career diagnostics, mapping exercises, mentoring discussions, individual planning				
Module 4	Elevate			6 Sessions
Topics: Topics: Resume structuring and personal branding, Mock interviews and assessment simulations, Final review, career strategy, and professional closure. Activity: Resume labs, mock interviews, assessment center simulations, expert feedback Targeted Application & Tools that can be used: Interactive Quiz TED Talks You Tube Links Activities FIRO-B Diagnostic Tool Reflection Journals Career Mapping Templates Resume Builders STAR Method Guides Project work/Assignment: Mention the Type of Project /Assignment proposed for this course: <u>Assignment 1:</u> Profile Presentation (e.g., present self-insights from FIRO-B and personal values aligned to career goals). <u>Assignment 2:</u> Career Roadmap and Professional Portfolio (e.g., 3-Year Career Map, Skill Action Plan, Updated Resume, and Brand Statement). The topics related to skill development: The topics related to soft skills, behavioral skills, emotional intelligence, career readiness, and employability skills for Skill Development through Participative Learning Techniques. This is attained through assessment Component mentioned in course handout.				
Catalogue prepared by	Ms Nirmal Kaur			
Recommended by the Board of Studies on				
Date of Approval by the Academic Council				

Course Code: PPS4011	Course Title: Corporate Readiness Program – II Type of Course: Practical Only Course	L- T - P- C	0	0	2	0
Version No.	1.0					
Course Pre-requisites	Students are expected to understand Basic English. Students should have inclination and enthusiasm to involve, participate and learn.					

Anti-requisites	NIL			
Course Description	This course enables students to develop a strong foundation in the critical soft skills required to succeed in the corporate environment. It equips learners with the ability to create profile-centric resumes, participate effectively in group discussions, and perform confidently in interviews. Through role-playing exercises, simulations, and experiential learning activities, the course offers a practical and engaging learning environment that bridges the gap between academic learning and workplace expectations.			
Course Objective	The objective of the course is to familiarize the learners with the concepts of "Corporate Readiness Program II course" and attain SKILL DEVELOPMENT through PARTICIPATIVE LEARNING techniques.			
Course Comes Out	On successful completion of this course the students shall be able to: CO1 Create a profile-centric resume that highlights skills and experiences effectively CO2 Apply effective communication strategies such as clarity, relevance, turn-taking, and active listening during group discussions CO3 Apply effective verbal and non-verbal communication skills, and professional presence during interviews			
Course Content				
Module 1	Corporate Readiness	Classroom Activity		8 Sessions
Topics: KYC (Know Your Company) and JD (Job Description), resume writing (profile centric), video resume, ATS. Activity: Resume Templates, Peer Feedback, Video Resumes				
Module 2	Group Discussion	Mock GD		10 Sessions
Topics: Types & Purpose of GD, Tips to prepare for GD, GD Phrases and Vocabularies, GOD Technique, Mind mapping, Parameters, Mock GD practice. Activity: Group Activities, Peer Assessment				
Module 3	Personal Interview Skills	Mock PI		10 Sessions
Topics: Purpose, Type and Modes of Interview, virtual and offline PI, KYC (Know Your Company) and JD (Job Description), Techniques - STAR, CAR, FAB, Mock PI practice. Activity: Interview Question Bank, Sample JDs, KYC Framework, STAR, CAR, and FAB Technique Templates				
Targeted Application & Tools that can be used: - Interactive Quiz - TED Talks - You Tube Links Activities				
Assignment proposed for this course Assignment 1: Text & Video Resume Assignment 2: Personal Interview				
- Continuous Individual Assessment - Campus to Corporate Mock Drill for each module				
The topics related to skill development:				

Corporate Readiness, Group Discussion, Personal Interview skills for Skill Development through Participative Learning Techniques. This is attained through assessment Component mentioned in course handout.	
Catalogue prepared by	Ms. Nirmal Kaur
Recommended by the Board of Studies on	
Date of Approval by the Academic Council	

Course Code: PPS4012	Course Title: Introduction to Verbal Ability Type of Course: Theory Only Course	L- T- P- C	0	1	0	0
Version No.	1.0					
Course Pre-requisites	Students are expected to understand Basic English. Students should have desire and enthusiasm to involve, participate and learn.					
Anti-requisites	NIL					
Course Description	This course is designed to enable students understand the importance of Verbal Ability and improve confidence, communication and professional skills to give them a competitive advantage and increase chances of success in the professional world. The course will benefit learners in presenting themselves effectively through various worksheets and learning methodologies.					
Course Objective	The objective of the course is to familiarize the learners with the concepts of "Verbal Ability" and attain SKILL DEVELOPMENT through PARTICIPATIVE LEARNING techniques.					
Course Out Comes	On successful completion of this course the students shall be able to: CO1: Recognize significance of verbal ability CO2: Use skimming and scanning techniques in reading comprehension and critical reasoning to draw logical inferences CO3: Apply techniques of vocabulary building to showcase effective communication					

Course Content:			
Module 1	INTRODUCTION TO VERBAL ABILITY	Individual Assessment	01 Hour
Topics: Setting Expectations, Ice Breaker, Significance of verbal ability, pre-assessment			
Module 2	EFFECTIVE VERBAL COMMUNICATION	Practice Worksheets	06 Hours
Topics: Idioms and Phrases, Error Identification and Sentence Correction			
Module 3	VOCABULARY BUILDING	Practice Worksheets	04 Hours
Topics: Root words, Synonyms and antonyms, analogies, para-jumbles			
Module 4	READING COMPREHENSION AND CRITICAL REASONING	Individual Assessment	04 Hours
Topics: Reading Comprehension, Critical Reasoning and Para Jumbles			
Targeted Application & Tools that can be used: LMS			
Project work/Assignment: Mention the Type of Project /Assignment proposed for this course			
• Individual Assessment • LMS MCQ			
The topics related to Skill Development: Communication, grammar rules, vocabulary building, effective presentation for skill development through participative learning techniques. This is attained through learning and practicing the rules of effective communication through worksheets as mentioned in the assessment component.			
Catalogue prepared by	Faculty members of L&D Department		
Recommended by the Board of Studies on			
Date of Approval by the Academic Council			

Course Code: PPS4013	Course Title: Introduction to Aptitude Type of Course: Practical Only Course	L- T- P- C	0	0	2	0
Version No.	2.0					

Course Pre-requisites	Students should know the basic Mathematics & Aptitude along with understanding of English				
Anti-requisites	Nil				
Course Description	The objective of this course is to prepare the trainees to tackle the questions on various topics and various difficulty levels based on Quantitative Ability, and Logical Reasoning asked during the placement drives. There will be sufficient focus on building the fundamentals of all the topics, as well as on solving the higher order thinking questions. The focus of this course is to teach the students to not only get to the correct answers, but to get there faster than ever before, which will improve their employability factor.				
Course Objective	The objective of the course is to familiarize the learners with the concepts of Aptitude and attain Skill Development through Problem Solving techniques.				
Course Outcomes	On successful completion of the course the students shall be able to: CO1] Recall all the basic mathematical concepts they learnt in high school. CO2] Solve the quantitative and logical ability questions with the appropriate. concept CO3] Analyze the data given in complex problems.				
Course Content:					
Module 1	Logical Foundations	Assignment	Bloom's Level : Application		10 Hours
Topics: Introduction to Aptitude, Working of Tables, Squares & Cubes, Number Series, Wrong number series , Letter series.					
Module 2	Arrangement and Sequencing	Assignment	Bloom's Level : Application		10 Hours
Topics: Coding & Decoding, Directions and Distance, Linear Arrangement, Circular Arrangement					
Module 3	Logical Thinking	Assignment	Bloom's Level : Application		10 Hours
Topics:					

Blood Relations, Clocks, Calendars, Puzzles, Syllogisms	
Targeted Application & Tools that can be used: Application area: Placement activities and Competitive examinations. Tools: LMS	
Continuous Evaluation Internal Assessments (90%):- Assessment 1 (30%) Assessment 2 (30%) Assessment 3 (30%) Attendance (10%)	
Text Book Quantitative Aptitude by R S Aggarwal Verbal & Non-Verbal Reasoning by R S Aggarwal	
References 1. www.indiabix.com 2. www.youtube.com/c/TheAptitudeGuy/videos 3. Prepinsta.com	
Topics relevant to Skill development: Quantitative and reasoning aptitude for Skill Development through Problem solving Techniques. This is attained through the assessment component mentioned in course handout.	
Catalogue prepared by	
Recommended by the Board of Studies on	BOS No.: BOS Date:
Date of Approval by the Academic Council	Academic Council Meeting No.: Date of the meeting: