

AC 11/5/2017

Item No.

**UNIVERSITY OF MUMBAI****Syllabus for Approval**

	<b>Heading</b>	<b>Particulars</b>
1	Title of the Course	Master In Financial Technology (MFT)
2	Eligibility for Admission	<ol style="list-style-type: none"> <li>1. Graduate with minimum 50% from a recognized University having a flair for numbers can apply.</li> <li>2. Consideration will be given to SC/ST candidates and Persons with Disability (PWD).</li> <li>3. Candidates from Engineering / MCA /BCA / Mathematics / Economics background will get an edge over the remaining applicants for FinTech</li> <li>4. Admissions on the basis of Written Test &amp; Interview.</li> </ol>
3	Passing Marks	50% PASSING MARKS
4	Ordinances / Regulations ( if any)	
5	No. of Years / Semesters	2 YEARS / 4 SEMESTERS
6	Level	GRADUATE
7	Pattern	SEMESTER
8	Status	NEW
9	To be implemented from Academic Year	From Academic Year 2017-18

Date: 11/5/2017

Signature:

Dr. Anil Karnik, I/C. Director, Garware Institute of Career Education &amp; Development



**UNIVERSITY OF MUMBAI'S  
GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT**



**M. In Financial Technology**

**Proposed syllabus**

**Credit Based Semester and Grading System with  
effect from the Academic Year**

**(w.e.f. Academic Year 2017-18)**

**UNIVERSITY OF MUMBAI**  
**GARWARE INSTITUTE OF CAREER EDUCATION & DEVELOPMENT**  
**Ordinances, Regulations and Syllabus Relating to**

**M. in Financial Technology**  
**(TWO YEAR FULL-TIME COURSE)**

**Preamble / Scope:**

The financial markets arena is a field which is constantly evolving; in which updated and specialized knowledge is essential. Financial companies today seek candidates who not only have excellent knowledge of their field and specialist skills, but who can cope with dynamism and lead the company successfully through changes. The innovations of the financial markets, as well as the globalization process and technological changes require highly trained professionals, able to face the challenges of the financial areas of corporate business. They seek individuals who can represent the company in a positive light when dealing with clients and transmitting in them, confidence of the company's ability to manage the funds.

The PGP - Global Financial Markets program is intended to prepare students for a wide range of careers both inside and outside the financial markets industry, including Investment Banking, Fund Management, Debt and Capital Markets, Mergers and Acquisitions, Investment Analysis and Research to name a few.

**Objective of the Course:**

**Learning in practice**

The classroom sessions are a combination of lively case study discussions and hands on practice exercises. This ensures that the learning is an enriching experience. To experience our learning sessions is to go inside the issues that matter - and to reach inside yourself for the knowledge, skills, and confidence you will develop to analyze and address complex situations. In every case, class, event, and activity, you are asked not only to develop new skills, but also to demonstrate it.

**Blended Learning**

Our Blended learning programs are perhaps the highest impact, lowest cost way to drive major corporate learning initiatives. It offers you the advantages of face to face learning as well as those of technology based learning. We design blended learning programs that are:

- It was well-structured (all steps were well-defined and scheduled in advance);
- Takes advantage of best-in-class media of the day
- Saves time, since part of the learning can be done by learners directly from their desktop
- Helps create a social culture (learners do spent a lot of time together);
- Uses demonstration and experiential learning

Students will have a solid understanding of the fundamental quantitative tools ranging from applied economic theory, probability and statistics, to financial modeling and securities law all of which are becoming increasingly vital in the financial industry. As for any aspirant looking forward to entering this vibrant field, it is essential to have sound technical knowledge. However at the same time, it is also essential for one to be well versed in their soft skills, that is, their communication abilities and overall presentation. One cannot learn about the financial markets operations without participating in it. Keeping this in mind the PGP - Global Financial Markets from BIL has been designed to interlace practical sessions such as case study discussions, projects, group discussions, class presentation, simulation programs and internships along with the theory sessions so that the students can correlate between theory and practice and develop a wholesome understanding of the subject.

**SEMESTER- WISE SYLLABUS:**

<b>Master In Financial Technology – Duration Two Years</b>									
	<b>Subject Code</b>	<b>Core Subject</b>	<b>Assessment Pattern</b>			<b>Teaching Hours</b>			
<b>SEMESTER- I</b>		<b>Topics</b>	<b>Internal Marks 60</b>	<b>External Marks 40</b>	<b>Total Marks 100</b>	<b>Theory Hours</b>	<b>Practical Hours</b>	<b>Total Hours</b>	<b>Total Credits</b>
	1.1	Business Communication	60	40	100	45	-	45	3
	1.2	Financial Accounting	60	40	100	45	-	45	3
	1.3	Business Statistics	60	40	100	45	-	45	3
	1.4	Dealing with Data	60	40	100	45	-	45	3
	1.5	Economic Environment of Business	60	40	100	45	-	45	3
	1.6	Introduction to Financial Management	60	40	100	45	-	45	3
	1.7	Financial Information Systems	60	40	100	45	-	45	3
	1.8	Fintech Personal Finance and Payments	60	40	100	45	-	45	3
			<b>Total</b>			<b>800</b>	<b>360</b>	<b>-</b>	
<b>SEMESTER- II</b>	2.9	Competitive Strategy	60	40	100	45	-	45	3
	2.10	Business Law	60	40	100	45	-	45	3
	2.11	Business Research Methods	60	40	100	45	-	45	3
	2.12	Strategic Financial Management	60	40	100	45	-	45	3
	2.13	Marketing and Sales of Financial Products	60	40	100	45	-	45	3
	2.14	Derivatives	60	40	100	45	-	45	3
	2.15	Fund Management and Portfolio Selection	60	40	100	45	-	45	3
	2.16	Leadership Development	60	40	100	45	-	45	3
			<b>Total</b>			<b>800</b>	<b>420</b>		

## Master In Financial Technology – Duration Two Years

	Subject Code	Core Subject	Assessment Pattern			Teaching Hours			
			Internal Marks 60	External Marks 40	Total Marks 100	Theory Hours	Practical Hours	Total Hours	Total Credits
<b>SEMESTER- III</b>		<b>Topics</b>							
	3.17	International Business	60	40	100	45	-	45	3
	3.18	Strategy Management	60	40	100	45	-	45	3
	3.19	Securities Law	60	40	100	45	-	45	3
	3.20	Technical Analysis	60	40	100	45	-	45	3
	3.21	Financial Modelling	60	40	100	45	-	45	3
	3.22	Robo-Advisors and Systematic Trading	60	40	100	45	-	45	3
	3.23	Retail Banking Technology and Operations	60	40	100	45	-	45	3
	3.24	FinTech Analysis: Data Driven Credit Modelling	60	40	100	45	-	45	3
	3.25	Summer Internship	100	-	100	-	-	2 mth	8
	<b>Total</b>			<b>900</b>	<b>360</b>			<b>32</b>	
	4.26	Entrepreneurship Management	60	40	100	45		45	3
<b>SEMESTER- IV</b>	4.27	Algorithmic Trading	60	40	100	45	-	45	3
	4.28	Cyber security Technology and Applications	60	40	100	45	-	45	3
	4.29	Financial Risk Management: Technology and Operations	60	40	100	45	-	45	3
	4.30	Fintech Application in Entrepreneurial Finance	60	40	100	45	-	45	3
	4.31	Debt Markets	60	40	100	45	-	45	3
	4.32	Project Work	100	-	100	-			2
		<b>Total</b>			<b>700</b>	<b>270</b>			<b>20</b>
		<b>FINAL TOTAL</b>			<b>3200</b>	<b>1410</b>			<b>100</b>

## SEMESTER- I

PAPER NO.	SUBJECT	Total Hours	SESSION OF 3 Hrs. Each
1.1	<p><b>Business Communication</b></p> <p><b>Unit 1:</b> Introduction to Business Communication  <b>Unit 2:</b> Communicating for Employment  <b>Unit 3:</b> Business Ethics  <b>Unit 4:</b> E-mails, Memos, Routine Letters  <b>Unit 5:</b> Persuasive Writing  <b>Unit 6:</b> Giving Oral Presentations  <b>Unit 7:</b> Formal/Informal Reports  <b>Unit 8:</b> Proposals  <b>Unit 9:</b> Dealing with the Public and Media</p>	45	15
1.2	<p><b>Financial Accounting</b></p> <p><b>Unit 1:</b> Introduction to Accounting  <b>Unit 2:</b> Double Entry  <b>Unit3:</b> Accounting Concepts  <b>Unit4:</b> Accounting Conventions  <b>Unit5:</b> Basic Accounting Process  <b>Unit6:</b> Final Accounts  <b>Unit7:</b> Inventory Accounting  <b>Unit8:</b> Accounting for Depreciation  <b>Unit9:</b> Accounting for Capitalization  <b>Unit10:</b> Financial Statements  <b>Unit11:</b> Financial Statement Analysis  <b>Unit12:</b>Balance Sheet, Profit &amp; Loss Account  <b>Unit13:</b> Ratio  <b>Unit14:</b> Cash and Funds Flow Statement</p>	45	15
1.3	<p><b>Business Statistics</b></p> <p><b>Unit1:</b> Introduction to Statistical Analysis  <b>Unit2:</b> Counting, Probability and Probability  <b>Unit3:</b> Distributions  <b>Unit4:</b> The Normal Distribution  <b>Unit5:</b> Sampling and Sampling Distribution  <b>Unit6:</b> Estimation and Hypothesis Testing  <b>Unit7:</b> Correlation and Regression</p>	45	15
1.4	<p><b>Dealing with Data</b></p> <p><b>Unit 1:</b> Introduction to data  <b>Unit 2:</b> Statistical Inference  <b>Unit 3:</b> Exploratory Data Analysis</p>	45	15

	<b>Unit 4:</b> Basic Machine Learning Algorithms <b>Unit 5:</b> Feature generation and feature selection <b>Unit 6:</b> Building a user facing data product <b>Unit 7:</b> Data Visualization <b>Unit 8:</b> Data Science and Ethical Issues		
1.5	<b>Economics Environment of Business</b>  <b>Unit 1:</b> Introduction to Micro Economics <b>Unit 1:</b> Demand <b>Unit 2:</b> Utility Concepts <b>Unit 3:</b> Indifference Analysis <b>Unit 4:</b> Supply side economics <b>Unit 5:</b> Equilibrium <b>Unit 6:</b> Competition and Market Forms <b>Unit 7:</b> Oligopoly and Duopoly <b>Unit 8:</b> Introduction to Macro Economics <b>Unit 9:</b> Aggregate Demand and Supply, GDP <b>Unit 10:</b> Inflation and Interest Rates <b>Unit 11:</b> Monetary and Fiscal Policy <b>Unit 12:</b> Fiscal Deficit and Balance of Payments <b>Unit 13:</b> Exchange Rates	45	15
1.6	<b>Introduction to Financial Management</b>  <b>Unit 1:</b> Characteristics of financial markets <b>Unit 2:</b> Interest rate determinants <b>Unit 3:</b> Time value of money <b>Unit 4:</b> Bond pricing <b>Unit 5:</b> Fundamental Stock Pricing <b>Unit 6:</b> Finish Stock Pricing <b>Unit 7:</b> Weighted average cost of capital <b>Unit 8:</b> Capital Budgeting	45	15
1.7	<b>Financial Information Systems</b>  <b>Unit 1:</b> Introduction and Overview of course topics <b>Unit 2:</b> Financial Software and Analytic Tools <b>Unit 3:</b> Banking and Payment Processing Systems <b>Unit 4:</b> Information Technology in Financial Markets <b>Unit 5:</b> Financial Markets Infrastructure	45	15
1.8	<b>Fintech Personal Finance and Payments</b>  <b>Unit 1:</b> Peer to Peer Currency exchange framework <b>Unit 2:</b> Digital Currencies <b>Unit 3:</b> Insuretech <b>Unit 4:</b> Peer to Peer Lending <b>Unit 5:</b> Regulatory Issues	45	15

## SEMESTER- II

PAPER NO.	SUBJECT	Total Hours	SESSION OF 3 Hrs. Each
2.9	<p><b>Competitive Strategy</b></p> <p><b>Unit 1:</b> Basics of Strategy  <b>Unit 2:</b> Competitive Advantage  <b>Unit 3:</b> Strategic Interactions  <b>Unit 4:</b> Industry Dynamics and Competition  <b>Unit 5:</b> Corporate Strategy  <b>Unit 6:</b> Technology Strategy</p>	45	15
2.10	<p><b>Business Law</b></p> <p><b>Unit 1:</b> Introduction of law and court procedures  <b>Unit 2:</b> Business Crimes and Torts  <b>Unit 3:</b> Government Regulation of Business  <b>Unit 4:</b> Contracts-nature and Capacity to contract  <b>Unit 5:</b> Offer and acceptance  <b>Unit 6:</b> Defective and illegal agreements  <b>Unit 7:</b> Termination of Contract and Consumer Protection</p>	45	15
2.11	<p><b>Business Research Methods</b></p> <p><b>Unit 1:</b> Background to Research  <b>Unit 2:</b> Literature Review  <b>Unit 3:</b> Qualitative Methods  <b>Unit 4:</b> Quantitative Methods  <b>Unit 5:</b> Research Proposal</p>	45	15
2.12	<p><b>Strategic Financial Management</b></p> <p><b>Unit 1:</b> Financial management objectives and conflicting stakeholder interests  <b>Unit 2:</b> Financial strategy formulation and ethical issues in financial management  <b>Unit 3:</b> Corporate valuation and strategies for acquisitions and mergers  <b>Unit 4:</b> Application of option pricing theory in investment decisions  <b>Unit 5:</b> International investment and financing decisions  <b>Unit 6:</b> The nature of the equity and debt markets and sources of finance including hybrids  <b>Unit 7:</b> The estimation of cost of capital  <b>Unit 8:</b> Review of capital structure and distribution theory</p>	45	15



	<b>Unit 9:</b> Option pricing theory and real options <b>Unit 10:</b> The valuation of intangibles <b>Unit 11:</b> Methods of interest rate risk and currency risk management		
2.13	<b>Marketing and Sales of Financial Products</b>  <b>Unit 1:</b> Introduction to Marketing <b>Unit 2:</b> Environment Scanning <b>Unit 3:</b> Marketing Strategy and Consumer buying <b>Unit 4:</b> Segmentation and Targeting <b>Unit 5:</b> Positioning <b>Unit 6:</b> Product and Branding <b>Unit 7:</b> Introduction to Services Marketing <b>Unit 8:</b> Price <b>Unit 9:</b> Place <b>Unit 10:</b> Promotion	45	15
2.14	<b>Derivatives</b>  <b>Unit 1:</b> Introduction to Derivatives and Derivative Products <b>Unit 2:</b> Options <b>Unit 3:</b> Futures <b>Unit 4:</b> Types of Margins <b>Unit 5:</b> Future and Option Strategies <b>Unit 6:</b> Derivative Markets	45	15
2.15	<b>Fund Management and Portfolio Selection</b>  <b>Unit 1:</b> Financial markets and instruments <b>Unit 2:</b> Active Fund Management and Investor Strategies <b>Unit 3:</b> Market microstructure <b>Unit 4:</b> Diversification <b>Unit 5:</b> Risk and Performance Management <b>Unit 6:</b> Introduction to Portfolio Management <b>Unit 7:</b> Portfolio Management Models <b>Unit 8:</b> Portfolio Manager <b>Unit 9:</b> Security Analysis <b>Unit 10:</b> Case Studies and Practical Application	45	15
2.16	<b>Leadership Development</b>  <b>Unit 1:</b> Foundational Skill Building <b>Unit 2:</b> Cross Functional Business Approach <b>Unit 3:</b> Strategy Formulation and Implementation <b>Unit 4:</b> Leading Charge <b>Unit 5:</b> Personal Leadership	45	15

### SEMESTER- III

PAPER NO.	SUBJECT	Total Hours	SESSION OF 3 Hrs. Each
3.17	<p><b>International Business</b></p> <p><b>Unit 1:</b> Overview of International Business  <b>Unit 2:</b> The evolution of International Business  <b>Unit 3:</b> Regional Economic Integration  <b>Unit 4:</b> The international flow of funds  <b>Unit 5:</b> International Business Environment  <b>Unit 6:</b> Market Entry modes and decision making  <b>Unit 7:</b> International Business Strategies  <b>Unit 8:</b> International HRM  <b>Unit 9:</b> International Marketing  <b>Unit 10:</b> Global Value chain</p>	45	15
3.18	<p><b>Strategic Management</b></p> <p><b>Unit 1:</b> The Concept of Strategy  <b>Unit 2:</b> Industry &amp; Competitive Analysis  <b>Unit 3:</b> Competitive Advantage  <b>Unit 4:</b> Competitive Dynamics  <b>Unit 5:</b> Corporate and Global Strategy</p>	45	15
3.19	<p><b>Securities Law</b></p> <p><b>Unit 1:</b> Introduction to Indian Capital Markets  <b>Unit 2:</b> SEBI Act 1992  <b>Unit 3:</b> Securities Contract (Regulations) Act 1956  <b>Unit 4:</b> Companies Act 2013  <b>Unit 5:</b> Company Formation  <b>Unit 6:</b> Corporate Governance  <b>Unit 7:</b> Other Regulations</p>	45	15
3.20	<p><b>Technical Analysis</b></p> <p><b>Unit 1:</b> Introduction to Technical Analysis  <b>Unit 2:</b> Theories, Techniques &amp; Benefits  <b>Unit 3:</b> Important Aspects of Technical Analysis  <b>Unit 4:</b> Charts and their patterns  <b>Unit 5:</b> Technical Indicators  <b>Unit 6:</b> Trend Lines - Support and Resistance  <b>Unit 7:</b> Importance of Volume  <b>Unit 8:</b> Charts and Chart Types  <b>Unit 9:</b> Chart Patterns  <b>Unit 10:</b> Moving Averages  <b>Unit 11:</b> Indicators and Oscillators</p>	45	15

	<b>Unit 12: Technical Analysis Step by Step</b>		
3.21	<b>Financial Modelling</b> <b>Unit 1:</b> Overview of Financial Modelling <b>Unit 2:</b> Best Practices <b>Unit 3:</b> Core Statements <b>Unit 4:</b> Forecasting Revenue and Expenses <b>Unit 5:</b> Scenario Analysis <b>Unit 6:</b> Working Capital Schedule – (Assets and Liabilities) <b>Unit 7:</b> Depreciation and Amortization Schedule <b>Unit 8:</b> Long-Term Items and completion of income statement logic <b>Unit 9:</b> Shareholder’s equity Schedule <b>Unit 10:</b> Debt and Interest <b>Unit 11:</b> Troubleshooting your Financial Model <b>Unit 12:</b> Data Tables <b>Unit 13:</b> Basics of Valuation <b>Unit 14:</b> Valuation Of Companies - DDM <b>Unit 15:</b> Discounted Cash Flow Model	<b>45</b>	<b>15</b>
3.22	<b>Robo-Advisors and Systematic Trading</b> <b>Unit 1:</b> Smart beta and Robo advisors <b>Unit 2:</b> Signal, noise, randomness <b>Unit 3:</b> Markets and basic measurements of performance, direction and volatility <b>Unit 4:</b> Comparing strategies <b>Unit 5:</b> Systematic Trading: Trend Following Systems & Futures Markets <b>Unit 6:</b> Systematic trading: Trend and Counter-trend systems <b>Unit 7:</b> Systematic trading: Trend and Counter-trend systems <b>Unit 8:</b> Technical trading: Spreads and pairs trading in Equities Markets <b>Unit 9:</b> Pairs trading review <b>Unit 10:</b> Fundamentals and currency trading strategies <b>Unit 11:</b> Currencies: Flow-based strategies and carry trades; <b>Unit 12:</b> Co-integration and basket trading <b>Unit 13:</b> Machine Learning and Artificial Intelligence in Financial Prediction <b>Unit 14:</b> High frequency trading	<b>45</b>	<b>15</b>
3.23	<b>Retail Banking Technology and Operations</b> <b>Unit 1:</b> Overview of Financial Ecosystem and Retail Banking <b>Unit 2:</b> The universal Banking Process Framework		

	<b>Unit 3:</b> Payments Ecosystem <b>Unit 4:</b> Compliance and Risk management <b>Unit 5:</b> Disaster recovery and Business Continuity Planning <b>Unit 6:</b> Data warehouse and analytics – Concepts, Architecture and Applications	<b>45</b>	<b>15</b>
3.24	<b>FinTech Analysis: Data Driven Credit Modelling</b>  <b>Unit 1:</b> Introduction to credit risk modelling concepts <b>Unit 2:</b> R tutorial and data sets <b>Unit 3:</b> PD model validation <b>Unit 4:</b> PD model calibration <b>Unit 5:</b> Regression-based models of default and data pre-processing <b>Unit 6:</b> Tree-based models <b>Unit 7:</b> Loss Given Default: theory, data acquisition and modelling <b>Unit 8:</b> Mortgages	<b>45</b>	<b>15</b>
3.25	<b>Summer Internship</b>	<b>2 months</b>	<b>8</b>

**SEMESTER- IV**

<b>PAPER NO.</b>	<b>SUBJECT</b>	<b>Total Hours</b>	<b>SESSION OF 3 Hrs. Each</b>
4.26	<p><b>Entrepreneurship Management</b></p> <p><b>Unit 1:</b> Business Opportunity  <b>Unit 2:</b> The process of building a business  <b>Unit 3:</b> Idea to business model  <b>Unit 4:</b> Venturing through innovating the business model  <b>Unit 5:</b> Discovery driven planning  <b>Unit 6:</b> Crafting a business plan  <b>Unit 7:</b> Modes of venturing  <b>Unit 8:</b> Raising venture capital  <b>Unit 9:</b> Mobilizing Resource for the venture  <b>Unit 10:</b> Venturing in emerging markets  <b>Unit 11:</b> Paths to entrepreneurship</p>	45	15
4.27	<p><b>Algorithmic Trading</b></p> <p><b>Unit 1:</b> Introduction and Overview of Algorithmic Trading  <b>Unit 2:</b> The Mathematics of Algorithmic Trading  <b>Unit 3:</b> Global Trends in Algorithmic Trading  <b>Unit 4:</b> Lifecycle of Algorithmic Trading  <b>Unit 5:</b> Risk, Costs and Roles in Algorithmic Trading  <b>Unit 6:</b> The trading strategies  <b>Unit 7:</b> Business aspect of algorithmic trading  <b>Unit 8:</b> India in algorithmic trading</p>	45	15
4.28	<p><b>Cyber security Technology and Applications</b></p> <p><b>Unit 1:</b> Introduction to cyber security  <b>Unit 2:</b> Systems Security  <b>Unit 3:</b> Cryptograph and Network Security  <b>Unit 4:</b> The Landscape of Cyber security and Case Studies</p>	45	15
4.29	<p><b>Financial Risk Management: Technology and Operations</b></p> <p><b>Unit1:</b> Market structure &amp; Participant ant  <b>Unit2:</b> Solution Architecture &amp; Design  <b>Unit3:</b> Financial Market Product life Cycle Development &amp; Implementation  <b>Unit4:</b> Introduction to Risk  <b>Unit5:</b> Market Risk  <b>Unit6:</b> Algorithmic Trading &amp; complex event processing</p>	45	15

4.30	<b>Fintech Application in Entrepreneurial Finance</b>  <b>Unit 1:</b> Crowd funding <b>Unit 2:</b> Peer to Peer Equity <b>Unit 3:</b> Regulatory Issues	45	15
4.31	<b>Debt Markets</b>  <b>Unit 1:</b> Overview of debt contracts and classification of debt securities <b>Unit 2:</b> Players and their objectives <b>Unit 3:</b> Government debt markets <b>Unit 4:</b> The money market <b>Unit 5:</b> The repo market <b>Unit 6:</b> MBS and ABS markets <b>Unit 7:</b> Fixed income derivatives markets <b>Unit 8:</b> No-arbitrage and the law of one price <b>Unit 9:</b> Risks of debt securities	45	15
4.32	<b>Project Work</b>		2

### **PASSING STANDARD AND PERFORMANCE GRADING:**

<b>MARKS</b>	<b>GRADE POINTS</b>	<b>GRADE</b>
75 TO 100	7.5 TO 10.0	O
65 TO 74	6.5 TO 7.49	A
60 TO 64	6.0 TO 6.49	B
55 TO 59	5.5 TO 5.99	C
50 TO 54	5.0 TO 5.49	D
0 TO 49	0.0 TO 4.99	F (FAILS)

The performance grading shall be based on the aggregate performance of Internal Assessment and Semester End Examination.

The Semester Grade Point Average (SGPA) will be calculated in the following manner:  
 $SGPA = \frac{\sum CG}{\sum C}$  for a semester, where C is Credit Point and G is Grade Point for the Course/ Subject.

The Cumulative Grade Point Average (CGPA) will be calculated in the following manner :  
 $CGPA = \frac{\sum CG}{\sum C}$  for all semesters taken together.

#### **R. \_\_\_\_\_ PASSING STANDARD FOR ALL COURSES :**

Passing 50% in each subject /Course combined Progressive Evaluation (PE)/Internal Evaluation and Semester-End/Final Evaluation (FE) examination taken together. i.e. (Internal plus External Examination)

#### **R. \_\_\_\_\_**

- A. Carry forward of marks in case of learner who fails in the Internal Assessments and/ or Semester-end examination in one or more subjects (whichever component the learner has failed although passing is on total marks).
- B. A learner who PASSES in the Internal Examination but FAILS in the Semester-end Examination of the Course shall reappear for the Semester-End Examination of that Course. However his/her marks of internal examinations shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

- C. A learner who PASSES in the Semester-end Examination but FAILS in the Internal Assessment of the course shall reappear for the Internal Examination of that Course. However his/her marks of Semester-End Examination shall be carried over and he/she shall be entitled for grade obtained by him/her on passing

**R. \_\_\_\_\_ ALLOWED TO KEEP TERMS (ATKT)**

- A. A learner shall be allowed to keep term for Semester II irrespective of number of heads/courses of failure in the Semester I.
- B. A learner shall be allowed to keep term for Semester III wherever applicable if he/she passes each of Semester I and Semester II.

**OR**

- C. A learner shall be allowed to keep term for Semester III wherever applicable irrespective of number of heads/courses of failure in the Semester I & Semester II.
- D. A learner shall be allowed to keep term for Semester IV wherever applicable if he/she passes each of Semester I, Semester II and Semester III.

**OR**

- E. A learner shall be allowed to keep term for Semester IV wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, and Semester III
- F. A learner shall be allowed to keep term for Semester V wherever applicable if he/she passes each of Semester I, Semester II, Semester III and Semester IV.

**OR**

- G. A learner shall be allowed to keep term for Semester V wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, Semester III, and Semester IV.
- H. The result of Semester VI wherever applicable OR final semester shall be kept in abeyance until the learner passes each of Semester I, Semester II, Semester III, Semester IV, Semester V wherever applicable.

**OR**

- I. A learner shall be allowed to keep term for Semester VI wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, Semester III, Semester IV and Semester V.