



Dr. D. Y. Patil Institute of Management and Entrepreneur Development

Approved by AICTE, Affiliated to SPPU Pune

Address: - Sr. No. 27/A/1/2C, Near Talegaon Railway Station, Towards HP Service Station, Varale, Talegaon, Pune, Maharashtra 410507. Website: dypatilef.com. dypatilimed.com E- mail- director.dypimed@dypatilef.com

Dr. D. Y. Patil Founder Dr. D Y Patil Group

Dr. Sushant Patil
President

Dr. Priyanka A. Singh Director

Criterion I: CURRICULAR ASPECTS

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Varale Talegaon 6836

Dr. Priyanka Singh Director Dr.D.Y.Patilinstitute of Management & Entrepreneur Development, Varale Talegaon Pune-410507(1)

Master of Business Administration (MBA) -Syllabus 2019 Pattern (revised)

2 year, 4 Semester Full time Programme Choice Based Credit System (CBCS) and Grading System Outcome Based Education Pattern

MBA I effective from AY 2022-23 MBA II effective from AY 2022-23

1.0 Preamble: The revised MBA Curriculum 2022 finetunes the MBA 2019 Pattern which was built upon the Choice Based Credit System (CBCS) and Grading System and the Outcome Based Education. The MBA Curriculum 2022 also incorporates several aspects of NEP.

2.0 Definitions:

- 2.1 Outcome Based Education:
- 2.1.1 Outcome Based Education (OBE) Approach: Outcomes are about performance, and this implies:
 - There must be a performer the student (learner), not only the teacher
 - b) There must be something performable (thus demonstrable or assessable) to perform
 - c) The focus is on the performance, not the activity or task to be performed
- 2.1.2 Programme Educational Objectives (PEOs): Programme Educational Objectives are a set of broad future-focused student performance outcomes that explicitly identify what students will be able to do with what they have learned, and what they will be like after they leave school and are living full and productive lives. Thus PEOs are what the programme is preparing graduates for in their career and professional life (to attain within a few years after graduation¹).
- 2.1.3 Graduate Attributes (GAs): Graduate Attributes (GAs) are the qualities, knowledge and capabilities that students are encouraged to take responsibility for developing throughout their studies and are the defining characteristics of the students passing out of the MBA program. These attributes include, but go beyond, the disciplinary expertise or technical knowledge.
- 2.1.4 Programme Outcomes (POs): Programme Outcomes are a set of narrow statements that describes what students (learners) of the programme are expected to know and be able to perform or attain by the time of graduation.
- 2.1.5 Programme Specific Outcomes (PSOs): Programme Outcomes are a set of narrow statements that describes what students (learners) of a particular specialization of the programme are expected to know and be able to perform or attain by the time of graduation. PSOs are also a function of the various course combinations offered by the Institute.
- 2.1.6 Learning Outcomes: A learning outcome is what a student CAN DO as a result of a learning experience. It describes a specific task that he/she is able to perform at a given level of competence under a certain situation. The three broad types of learning outcomes are:
 - a) Disciplinary knowledge and skills
 - b) Generic skills
 - c) Attitudes and values
- 2.1.7 Course Outcomes (COs): A set of specific statements that describes the complex performances a student should be capable of as a result of learning experiences within a course.
- 2.1.8 Teaching and Learning Activities (TLAs): The set of pedagogical tools and techniques or the teaching and learning activities that aim to help students to attain the intended learning outcomes and engage them in these learning activities through the teaching process.
- 2.1.9 Assessment: It is the process of collecting, recording, scoring, describing and interpreting information about learning
- 2.1.10 Outcome Based Assessment (OBA): An assessment system that asks course teachers to first identify what it is that we expect students to be able to do once they have completed a course or program. It then asks course teachers to provide evidence that they are able to do so. In other words, how will each learning outcome be assessed? What evidence of student learning is most relevant for each learning outcome and what standard or criteria will be used to evaluate that evidence? Assessment is therefore a key part of outcome-based education and used to determine whether or not a qualification has been achieved.
- 2.1.11 Rubric (Assessment Rubric): A rubric for assessment, also called a scoring guide, is a tool used to interpret and grade students on any kind of work against criteria and standards.
- 2.2 Academic credit: An academic credit is a unit by which the course work (theory/ practical/ training) is measured. Each course may be allotted credits in proportion to the time expected to be devoted by the student for that course. Thus, it determines the number of hours of instructions required per week

Graduation refers to passing out of the MBA programme. Graduation does NOT refer to 10+2+3/4 degree e. BA, BE, etc.

Entire process of the MBA programme. Graduation does NOT refer to 10+2+3/4 degree e. BA, BE, etc.

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- 2.2.1 Credit: In terms of credits, for a period of one semester of 15 weeks:
 - a) every ONE hour session per week of L amounts to 1 credit per semester
 - b) every TWO hour tutorial per week of L amounts to 1 credit per semester
 - c) a minimum of TWO hours per week of P amounts to 1 credit per semester,

Each credit is a combination of 3 components viz. Lecture (L) + Tutorials (T) + Practice (Practical / Project Work / Self Study) (P) i.e. LTP Pattern. Indicative LTP, for each course, is documented in the syllabus.

The course teacher may modify the LTP of the course in view of the course requirements, nature of the course, the level of learners and the type of pedagogy and assessment tools proposed. The modified LTP shall have to be approved by the Director / Head of the Department / Designated academic authority of the Institute.

- 2.2.2 Session: Each teaching-learning, evaluation session shall be of 60 minutes. However, institutes shall have the flexibility to define their time slots in a manner as to use their faculty and infrastructure resources in the best possible way and ensure effective learning.
- 2.2.3 Course Announcement: The institute shall announce the elective courses and specializations it proposes to offer the students out of the wider course basket. It is not mandatory to offer all the specializations and all the electives. The decision of the Director shall be final in this case. However, in the spirit of Choice Based Credit System, institutes should offer choices to the students for the elective courses and not offer only the minimum number of electives.
- 2.2.4 Course Registration: It is mandatory for every student, to register every semester, for the courses opted for that semester. Each student, on admission shall be assigned to a Faculty Advisor who shall advise her/him about the academic programs and counsel on the choice of courses considering the student's profile, career goals and courses taken in the earlier semesters. With the advice and consent of the Faculty Advisor, the student shall register for a set of courses he/she plans to take up for the Semester. Students shall have to register for the courses for the semester within first week of Semester I and immediately after conclusion of the preceding term for subsequent Semesters II, III and IV.

3.0 MBA Programme Focus:

3.1 Programme Educational Objectives (PEOs):

- PEO1: Graduates of the MBA program will successfully integrate core, cross-functional and inter-disciplinary
 aspects of management theories, models and frameworks with the real world practices and the sector specific
 nuances to provide solutions to real world business, policy and social issues in a dynamic and complex world.
- PEO2: Graduates of the MBA program will possess excellent communication skills, excel in cross-functional, multi-disciplinary, multi-cultural teams, and have an appreciation for local, domestic and global contexts so as to manage continuity, change, risk, ambiguity and complexity.
- PEO3: Graduates of the MBA program will be appreciative of the significance of Indian ethos and values in managerial decision making and exhibit value centered leadership.
- PEO4: Graduates of the MBA program will be ready to engage in successful career pursuits covering a broad spectrum of areas in corporate, non-profit organizations, public policy, entrepreneurial ventures and engage in life-long learning.
- 5. PEO5: Graduates of the MBA program will be recognized in their chosen fields for their managerial competence, creativity & innovation, integrity & sensitivity to local and global issues of social relevance and earn the trust & respect of others as inspiring, effective and ethical leaders, managers, entrepreneurs, intrapreneurs and change agents.



Dr. Priyanka Singh Dractor Dr.D.Y.Pathholiute of Management & Entrepreneur Development Variate Talegaon Pune 410507(1)

3.2 Programme Outcomes (POs): At the end of the MBA programme the learner will possess the

- Generic and Domain Knowledge Ability to articulate, illustrate, analyze, synthesize and apply the knowledge
 of principles and frameworks of management and allied domains to the solutions of real-world complex
 business issues
- Problem Solving & Innovation Ability to Identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
- Critical Thinking Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions
- Effective Communication Ability to effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large
- Leadership and Team Work Ability to collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all stakeholders.
- Global Orientation and Cross-Cultural Appreciation: Ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management.
- Entrepreneurship Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills for founding, leading & managing startups as well as professionalizing and growing family businesses.
- Environment and Sustainability Ability to demonstrate knowledge of and need for sustainable development
 and assess the impact of managerial decisions and business priorities on the societal, economic and
 environmental aspects.
- Social Responsiveness and Ethics Ability to exhibit a broad appreciation of the ethical and value
 underpinnings of managerial choices in a political, cross-cultural, globalized, digitized, socio-economic
 environment and distinguish between ethical and unethical behaviors & act with integrity.
- LifeLong Learning Ability to operate independently in new environment, acquire new knowledge and skills and assimilate them into the internalized knowledge and skills.
- 3.3 Programme Specific Outcomes (PSOs): It is expected that Institutes define the PSOs for each specialization / major-minor combination. PSOs shall also vary based upon the customized combination of Generic Core, Generic Elective, Subject Core, Subject Elective, Foundation, Enrichment & Alternative Study Credit Courses that they offer.

3.4 Graduate Attributes (GAs): At the end of the MBA programme the learner shall exhibit:

- GA1: Managerial competence
- GA2: Proficiency in Communication, Collaboration, Teamwork and Leadership
- GA3: Competence in Creativity & Innovation
- GA4: Research Aptitude, Scholarship & Enquiry
- GA5: Global Orientation
- GA6: Proficiency in ICT & Digital Literacy
- GA7: Entrepreneurship & Intrapreneurship Orientation
- GA8: Cross-functional & Inter-disciplinary Orientation
- GA9: Results Orientation

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- GA10: Professionalism, Ethical, Values Oriented & Socially Responsible behaviour
- GA11: Life-Long Learning Orientation

4.0 MBA Programme Course Types & Evaluation Pattern:

| Course Type | Credits | Nature | Assessment (FA) Marks | Summative Evaluation (SE) Marks | Total Marks |
|------------------------------------|---|--|--|--|---|
| | | BASIC COURSE TYPES | | | |
| Generic Core (GC) | 3 | Compulsory | 50 | 50 | 100 |
| Subject Core (SC) | 3 | Compulsory (Specialization specific) | 50 | 50 | 100 |
| Generic Elective (GE - UL) | 2 | Elective | 0 | 50 | 50 |
| Generic Elective (GE - IL) | 2 | Elective | 50 | 0 | 50 |
| Subject Elective (SE - IL) | 2 | Elective (Specialization specific) | 50 | 0 | 50 |
| Summer Internship Project (SIP) | 6 | Project (Compulsory) | 50 | 50 | 100 |
| | Generic Core (GC) Subject Core (SC) Generic Elective (GE - UL) Generic Elective (GE - IL) Subject Elective (SE - IL) Summer Internship | Generic Core (GC) 3 Subject Core (SC) 3 Generic Elective (GE - 2 UL) Generic Elective (GE - IL) 2 Subject Elective (SE - IL) 2 Summer Internship 6 | BASIC COURSE TYPES Generic Core (GC) 3 Compulsory Subject Core (SC) 3 Compulsory (Specialization specific) Generic Elective (GE - 2 Elective UL) Generic Elective (GE - IL) 2 Elective Subject Elective (SE - IL) 2 Elective (Specialization specific) Summer Internship 6 Project (Compulsory) | Assessment (FA) Marks BASIC COURSE TYPES Generic Core (GC) 3 Compulsory 50 Subject Core (SC) 3 Compulsory (Specialization 50 specific) Generic Elective (GE - 2 Elective 0 UL) Generic Elective (GE - IL) 2 Elective 50 Subject Elective (SE - IL) 2 Elective (Specialization 50 specific) Summer Internship 6 Project (Compulsory) 50 | Assessment (FA) Marks Evaluation (SE) Marks |

Dr. Priyanka Singh Director Dr.D.Y.Pelitretute of Management & Integration Dr. Verde Talegar

| 1 | Enrichment Courses (ENR) | 1 | Elective | 25 | 0 25 |
|---|--|--------|------------------------------------|-------------------------|----------------------------|
| 2 | Foundation Courses (FOU) | 1 | Elective | 25 | 0 25 |
| 3 | Alternative Study Credit Courses (ASCC) | 2 | Elective | 50 | 0 50 |
| 4 | Open Electives (OE) | 3 or 2 | Subject Core / Subject Elective | As per Subje Pattern | ct Core / Subject Elective |

4.1 Course Types

- 4.1.1 Foundation Course: These courses focus on developing the basic abilities that support the understanding of other courses.
- 4.1.2 Core courses are the compulsory courses for all the students. Core courses are of two types: Generic Core & Subject Core.
- 4.1.3 Generic Core: This is the course which should compulsorily be studied by a candidate as a core requirement to complete the requirement of a degree in a said discipline of study. Therefore, Generic Core courses are mandatory and fundamental in nature. These courses cannot be substituted by any other courses. Such courses are also known as Hard Core Courses.
- 4.1.4 Subject Core: A Core course may be a Subject Core if there is a choice or an option for the candidate to choose from a broad category (grouping) of subjects (specializations / electives). These are also known as Soft Core Courses.
- 4.1.5 Elective Course: Elective course is a course which can be chosen from a pool of courses. It may be:
 - a) Very Specialized or advanced course focusing on a specific aspect
 - b) Supportive to the discipline of study
 - c) Providing an extended scope
 - d) Enabling an exposure to some other discipline/domain
 - e) Nurturing candidate's proficiency/skills.
- 4.1.6 Generic Elective: An elective course which is common across disciplines / subjects is called a generic elective. 'Generic Elective' courses develop generic proficiencies amongst the students.
- 4.1.7 Generic Elective University Level: These elective courses are supportive to the discipline of study and focus on the knowledge aspect of competence building. The course outcomes for such courses can be better assessed through traditional End Semester Evaluation (Summative Evaluation).
- 4.1.8 Generic Elective Institute Level: These elective courses are aimed to develop inter-personal, technical and other skills aspect of competence building. The course outcomes for such courses can be better assessed through Comprehensive Concurrent Evaluation.
- 4.1.9 Subject Elective: A 'Discipline (specialization) centric' elective is called 'Subject Elective.' Subject Elective courses, in the Semester II, III and IV are focused on a specialization.
- 4.1.10 Open Elective: A subject elective course chosen generally from another Discipline / specialization / subject, with an intention to seek cross-functional exposure is called an Open Elective. A Subject Elective offered in one specialization area may be treated as an Open Elective by another specialization area and vice-a-versa.
- 4.1.11 Enrichment Course: This is a course generally offered to bright learners / fast learners for advanced inputs beyond the curriculum. Enrichment / Add-on Course shall be a 1 Credit Course. The course is of the nature of Course of Independent Study (CIS) and is designed for learners who have the ability and inclination to work independently with limited guidance, supervision and interaction with the faculty member(s).
- 4.1.12 Alternative Study Credit Courses: These courses prepare the learners for a VUCA (Volatile Uncertain, Complex and Ambiguous) world by going beyond the boundaries of their campus. Apart from core and elective courses, these courses engage students in discussion, debate and solution of real world challenges.
- 4.1.13 Massive Open Online Courses (MOOCs)²: Massive Open Online Courses (MOOCs) are such online courses which are developed as per the pedagogy stated in the AICTE regulation (2016) or equiavelent; following the four quadrant approach and made available on the SWAYAM platform of Government of India.



Dr. Priyanika Singh
Director
Dr.D.Y.Patthautur of Mangement &
Entrepreneur Coveropment variet Tolegeon
Pune-410507(1)

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² AICTE (Credit Framework for online learning course through SWAYAM) Regulations, 2016

4.2 MBA Programme Structure: The Basic Programme Structure shall be as depicted below

| | Course# | Semester I | | Semester II | | Semester III | | Semester IV | | Credits | FA | SE |
|---|---------|--|--------|--|--------|--------------------------------------|---------|--------------------------------------|---------|----------------------------|--------------------|-------|
| | | COMPULSO | DRY CO | RE COURSES (GE | NERIC | (GC) + SUBJECT (S | SC) + 9 | iummer Interneh | in Proi | oct CID) | Marks | Marks |
| | 1 | GC-1 | 1 | GC -7 | 1 | GC - 11 | 1 | GC - 14 | ip rioj | ect SIP) | | |
| | 2 | GC-2 | 2 | GC - 8 | 2 | GC - 12 | 2 | GC - 15 | | | | |
| | 3 | GC-3 | 3 | GC -9 | 3 | GC -13 (SIP) | 3 | SC-5 | | 66 | | |
| ١ | 4 | GC - 4 | 4 | GC - 10 | 4 | SC - 3 | 4 | SC-6 | | Credits | | |
| | 5 | GC - 5 | 5 | SC -1 | 5 | SC-4 | | | | dits | | |
| | 6 | GC- 6 | 6 | SC-2 | | | | | | | 1050 | 105 |
| | | THE PARTY OF THE P | 100 | GENERIC ELECTIV | /E COU | RSES (UNIVERSIT | VIEV | FIX-GE-III | | 10 | 2100 | |
| | 7 | GEUL-1 | 7 | GE UL - 4 | 6 | GE UL -7 | 5 | GE UL - 10 | 8 | 2 | | - |
| 3 | 8 | GE UL - 2 | 8 | GEUL-5 | 7 | GEUL-8 | 6 | GE UL - 11 | | 22 Cr | | 100 |
| | 9 | GE UL - 3 | 9 | GE UL - 6 | 8 | GEUL-9 | | | E. | Credits | 0 | 55 |
| | | | SENERI | / SUBJECT ELEC | TIVE C | OURSES (INSTITU | TE LE | VEL) - GE - IL / SE | - 11 | | 550 | |
| | 10 | GE IL-1 | 10 | GE IL-4 | 9 | SE IL -3 | 7 | SE IL-6 | | 22 | | |
| 2 | 11 | GEIL-2 | 11 | SE IL -1 | 10 | SE IL -4 | 8 | SE IL -7 | | 2 Credi | 550 | |
| | 12 | GEIL-3 | 12 | SE IL-2 | 11 | SE IL -5 | | | | edits | 550 | |
| | | | 1307 | | | | 40 = | | 4200 | 110 | 550 1600 | 1600 |
| | 12 | Line State of the | 12 | onguero e en en co | 11 | N COURSES (OPT | 8 | | 43 | Credits | FA | SE |
| | | 2 FOUNDATION | | 8 FOUNDATION | | | | | | 0 to | | |
| | | 3 FOUNDATION 4 FOUNDATION 5 FOUNDATION 6 | | 9 FOUNDATION 10 | CHMEN | T COURSES (OPTI | IONA | <u>.</u> | | 0 to 10 Credits | | |
| | | FOUNDATION 4 FOUNDATION 5 FOUNDATION 6 ENRICHMENT 1 | | ENRICE ENRICHMENT 7 | CHMEN | ENRICHMENT 11 | IONAI | ENRICHMENT 13 | | 10 Credits | =: | == |
| | -= | FOUNDATION 4 FOUNDATION 5 FOUNDATION 6 | | FOUNDATION 10 ENRICEMENT | СНМЕМ | ENRICHMENT | IONA | ENRICHMENT | | | =: | == |
| | ==: | FOUNDATION 4 FOUNDATION 5 FOUNDATION 6 ENRICHMENT 1 ENRICHMENT 2 ENRICHMENT | | ENRICHMENT 7 ENRICHMENT 8 ENRICHMENT | CHMEN | ENRICHMENT 11 ENRICHMENT | IONAI | ENRICHMENT 13 ENRICHMENT | | | =: | = - |
| | | FOUNDATION 4 FOUNDATION 5 FOUNDATION 6 ENRICHMENT 1 ENRICHMENT 2 | | ENRICHMENT 7 ENRICHMENT 8 ENRICHMENT 9 ENRICHMENT | CHMEN | ENRICHMENT 11 ENRICHMENT | IONAI | ENRICHMENT 13 ENRICHMENT | | | =: | = = |
| | | FOUNDATION 4 FOUNDATION 5 FOUNDATION 6 ENRICHMENT 1 ENRICHMENT 2 ENRICHMENT 3 | | ENRICHMENT 7 ENRICHMENT 8 ENRICHMENT 9 | CHMEN | ENRICHMENT 11 ENRICHMENT | IONA | ENRICHMENT 13 ENRICHMENT | | 10 Credits 0 to 14 Credits | =: | |
| | | FOUNDATION 4 FOUNDATION 5 FOUNDATION 6 ENRICHMENT 1 ENRICHMENT 2 ENRICHMENT 3 ENRICHMENT 4 ENRICHMENT 5 ENRICHMENT 5 ENRICHMENT 6 | | ENRICHMENT 7 ENRICHMENT 8 ENRICHMENT 9 ENRICHMENT 10 | | ENRICHMENT 11 ENRICHMENT | | ENRICHMENT 13 ENRICHMENT 14 | | | =: | === |
| E | | FOUNDATION 4 FOUNDATION 5 FOUNDATION 6 ENRICHMENT 1 ENRICHMENT 2 ENRICHMENT 3 ENRICHMENT 4 ENRICHMENT 5 | | ENRICHMENT 7 ENRICHMENT 8 ENRICHMENT 9 ENRICHMENT 10 | | ENRICHMENT 11 ENRICHMENT 12 | | ENRICHMENT 13 ENRICHMENT 14 | | | =: | === |

Note:

- 1. The basic programme structure comprises of Block A, B & C above.
- Variations to the basic programme structure shall be defined at the institute level using any permissible
 combination of A,B,C,D,E and F blocks depicted above, taking into consideration institutional vision-missionfocus areas, industry demand, student learning capabilities, faculty competencies, availability of learning
 resources, etc. PSOs shall be appropriately defined by the institute.

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Dr. Priyanka Singh
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Dr.D.Y.Pallinstinia of Management &
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| # | Block | FA - SA(Credits per course) | Course Type | Credits | Courses | Nature |
|-----|-------|-----------------------------|---|---------|---------|------------|
| 1.1 | A1 | 50-50 (3 Credits) | GENERIC CORE (GC) | 42 | 14 | COMPULSORY |
| 1.2 | A2 | 50-50 (3 Credits) | SUBJECT CORE (SC) | 18 | 6 | COMPULSORY |
| 1.3 | A3 | 50-50 (3 Credits) | PROJECT | 6 | 1 | COMPULSORY |
| 2 | В | 0 - 50 (2 Credits) | GENERIC ELECTIVE (UNIVERSITY LEVEL) GE – UL | 22 | 11 | ELECTIVES |
| 3.1 | C1 | 50-0 (2 Credits) | GENERIC ELECTIVE (INSTITUTE LEVEL) GE – IL | 8 | 4 | ELECTIVES |
| 3.4 | C2 | 50-0 (2 Credits) | SUBJECT ELECTIVE (INSTITUTE LEVEL) SE - IL | 14 | 7 | ELECTIVES |
| | | | TOTAL | 110 | 43 | |
| | | | OPTIONAL COURSES (In Lieu of C1 / C2 ONLY) | | | |
| 4.1 | D | 25 - 0 (1 Credit) | FOUNDATION COURSES | 0 -10 | 0 - 10 | ELECTIVES |
| 4.2 | E | 25 - 0 (1 Credit) | ENRICHMENT COURSES | 0-14 | 0 - 14 | ELECTIVES |
| 4.3 | F | 50 - 0 (2 Credits) | ALTERNATIVE STUDY CREDIT COURSES | 0 -22 | 0 -11 | ELECTIVES |

5.0 Specializations offered: The following specializations shall be offered as MAJOR / MINOR:

- 1. Marketing Management (MKT)
- 2. Financial Management (FIN)
- 3. Human Resources Management (HRM)
- 4. Operations & Supply Chain Management (OSCM)
- 5. Business Analytics (BA)

The following specializations shall be offered ONLY as MINOR Specializations:

- 1. Rural & Agribusiness Management (RABM)
- 2. Pharma & Healthcare Management (PHM)
- 3. Tourism & Hospitality Management (THM)
- 4. International Business Management (IB)

Note:

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- Institutes may offer ONLY SELECT specializations based on industry needs, faculty strength & competencies, student demands, employability potential, etc.
- Institutes MAY NOT offer a specialization if a minimum of 20% of students are not registered for that specialization.
- The Institute MAY NOT offer an elective course if a minimum of 20% of students are not registered for that elective course.

5.1 Open Elective(s):

- Learners who intend to learn specific courses from other specialization(s) can opt for Subject Elective (SE IL) courses from other specializations in lieu of the Subject Elective (SE IL) courses from their native specialization.
- 2. These open electives MAY BE from two different specializations.
- 3. Open Electives can be opted for only in Sem III and Sem IV.
- Students can opt for maximum 1 Subject Elective (SE IL) course in Sem III and Sem IV each. i.e. Students can
 opt for maximum 2 Open Electives (total 4 credits).

5.2 Major Specialization + Minor Specialization Combination:

- For a Major + Minor Specialization combination the learner shall complete
 - a) Major Specialization Courses: Total 9 (4 Subject Core courses and 5 Subject Elective courses)
 - b) Minor Specialization Courses: Total 4 (2 Subject Core courses and 2 Subject Elective courses)
- 2. For a Major + Minor Specialization combination the learner shall earn
 - a) Major Specialization Credits: Total 22 (12 Credits from Subject Core + Minimum 10 Credits from Subject Electives)
 - Minor Specialization Credits: Total 10 (6 Credits from Subject Core + Minimum 4 Credits from Subject Electives)
- The 10 credits of the MINOR specialization shall be from a single specialization, out of which 6 credits shall be mandatorily earned through the Subject Core Courses.
- The Major + Minor specialization combination is OPTIONAL.
- 5. Students shall be permitted to opt for ANY Major + ANY Minor specialization combination, subject to institutional norms and guidelines, issued from time to time.

Dr. Priyanka Singh
Director
Dr.D.Y.Pablins of American & Entrepreneur Description & Viola Talogacon
Pune-410507(1)



ANNEXURE I

| 50 Marks FORMATIVE ASSESSMENT, 50 Marks SUMMATIVE EVALUATION | | | | | |
|--|-------------|--|----------|--|--|
| Course No. | Course Code | Course | Semester | | |
| 101 | GC-01 | Managerial Accounting | 1 | | |
| 102 | GC - 02 | Organizational Behaviour | 1 | | |
| 103 | GC - 03 | Economic Analysis for Business Decisions | | | |
| 104 | GC - 04 | Business Research Methods | 1 | | |
| 105 | GC - 05 | Basics of Marketing | 1 | | |
| 106 | GC - 06 | Digital Business | 1 | | |
| 201 | GC-07 | Marketing Management | II | | |
| 202 | GC - 08 | Financial Management | 11 | | |
| 203 | GC - 09 | Human Resources Management | H and | | |
| 204 | GC - 10 | Operations & Supply Chain Management | II . | | |
| 301 | GC-11 | Strategic Management | 111 | | |
| 302 | GC - 12 | Decision Science | III | | |
| 303 | GC - 13 | Summer Internship Project* | III | | |
| 401 | GC-14 | Enterprise Performance Management | IV | | |
| 402 | GC - 15 | Indian Ethos & Business Ethics | IV | | |

^{*} Six Credits



Dr. Priyanka Singh Director Dr.D.Y.Palthasible of Humanement & Entrepreneur Devolopment Variate Talegoon Pune-410507(1)



| | 00 Marks FO | RMATIVE ASSESSMENT, 50 Marks SUMMATIVE EVALUATION | N |
|----------|--------------|---|----------|
| Course # | Course Code | Course | Semester |
| | Any 3 co | purses to be selected from the following list in Semester I | |
| 107 | GE - UL - 01 | Management Fundamentals | 1 |
| 108 | GE - UL - 02 | Indian Economy | 1 |
| 109 | GE - UL - 03 | Entrepreneurship Development | 1 |
| 110 | GE - UL - 04 | Essentials of Psychology for Managers | 1 |
| 111 | GE - UL - 05 | Legal Aspects of Business | 1 |
| 112 | GE - UL - 06 | Demand Analysis & Forecasting | 1 |
| | Any 3 co | ourses to be selected from the following list in Semester II | |
| 207 | GE - UL - 07 | Contemporary Frameworks in Management | II. |
| 208 | GE - UL - 08 | Geopolitics & World Economic Systems | II . |
| 209 | GE - UL - 09 | Start Up and New Venture Management | II |
| 210 | GE - UL - 10 | Qualitative Research Methods | II II |
| 211 | GE - UL - 11 | Business, Government & Society | 11 |
| 212 | GE - UL - 12 | Business Process Re-engineering | 11 |
| | Any 3 co | ourses to be selected from the following list in Semester III | |
| 306 | GE - UL - 13 | International Business Economics | III |
| 307 | GE - UL - 14 | International Business Environment | III |
| 308 | GE - UL - 15 | Project Management | III |
| 309 | GE - UL - 16 | Knowledge Management | III |
| 310 | GE - UL - 17 | Corporate Governance | 111 |
| 311 | GE - UL - 18 | Management of Non-profit organizations | III |
| | Any 2 c | ourses to be selected from the following list in Semester IV | |
| 405 | GE - UL - 19 | Global Strategic Management | IV |
| 406 | GE - UL - 20 | Technology Competition and Strategy | IV |
| 407 | GE - UL - 21 | Cyber Laws | IV |
| 408 | GE - UL - 22 | Corporate Social Responsibility & Sustainability | IV |



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| | | ECTIVES INSTITUTE LEVEL (GE – IL) COURSES – 2 Credits RMATIVE ASSESSMENT , 00 Marks SUMMATIVE EVALUA | |
|------------|--------------|---|---------|
| Course No. | Course Code | Course | Semeste |
| | Maximum | 3 courses to be selected from the following list in Semes | |
| 113 | GE - IL - 01 | Verbal Communication Lab | |
| 114 | GE - IL - 02 | Enterprise Analysis & Desk Research | 1 |
| 115 | GE - IL - 03 | Selling & Negotiation Skills Lab | 1 |
| 116 | GE - IL - 04 | MS Excel | 1 |
| 117 | GE - IL - 05 | Business Systems & Procedures | 1 |
| 118 | GE - IL- 06 | Managing Innovation | 1 |
| 119 | GE - IL- 07 | Foreign Language – I | 1 |
| | Maximum | 1 course to be selected from the following list in Semest | erII |
| 213 | GE - IL - 08 | Written Analysis and Communication Lab | 11 |
| 214 | GE-IL-09 | Industry Analysis & Desk Research | 11 |
| 215 | GE - IL - 10 | Entrepreneurship Lab | H |
| 216 | GE - IL - 11 | SPSS | II |
| 217 | GE-IL-12 | Foreign Language – II | ll ll |



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| 3 Credits Each, 50 Marks FORMATIVE ASSESSMENT, 50 Marks SUMMATIVE EVALUATION | | | | | |
|--|--------------|---------------------------------|----------|--|--|
| Course No. | Course Code | Course | Semester | | |
| 205 MKT | SC - MKT- 01 | Marketing Research | 11 | | |
| 206 MKT | SC - MKT- 02 | Consumer Behaviour | 11 | | |
| 304 MKT | SC - MKT- 03 | Services Marketing | 111 | | |
| 305 MKT | SC - MKT- 04 | Sales & Distribution Management | III | | |
| 403 MKT | SC - MKT- 05 | Marketing 4.0 | IV | | |
| 404 MKT | SC - MKT- 06 | Marketing Strategy | IV | | |

| 2 Cred | lits Each, 50 Marks F | ORMATIVE ASSESSMENT, 00 Marks SUMMATIVE EVALUATION | N |
|------------|-----------------------|--|----------|
| Course No. | Course Code | Course | Semester |
| | Maximum 2 cour | ses to be selected from the following list in Semester II | |
| 217 MKT | SE - IL - MKT- 01 | Integrated Marketing Communications | 11 |
| 218 MKT | SE - IL - MKT- 02 | Product & Brand Management | 11 |
| 219 MKT | SE - IL - MKT- 03 | Personal Selling Lab | 11 |
| 220 MKT | SE – IL - MKT- 04 | Digital Marketing - I | II |
| 221 MKT | SE - IL - MKT- 05 | Marketing of Financial Services - I | 11 |
| 222 MKT | SE - IL - MKT- 06 | Marketing of Luxury Products | П |
| | Maximum 3 cour | ses to be selected from the following list in Semester III | |
| 312 MKT | SE - IL - MKT- 07 | Business to Business Marketing | 111 |
| 313 MKT | SE - IL - MKT- 08 | International Marketing | III |
| 314 MKT | SE - IL - MKT- 09 | Digital Marketing - II | Ш |
| 315 MKT | SE - IL - MKT- 10 | Marketing of Financial Services - II | 111 |
| 316 MKT | SE – IL - MKT- 11 | Marketing Analytics | 111 |
| 317 MKT | SE - IL - MKT- 12 | Marketing of High Technology Products | III |
| Set week | Maximum 2 cour | ses to be selected from the following list in Semester IV | |
| 409 MKT | SE - IL - MKT- 13 | Customer Relationship Management | IV |
| 410 MKT | SE - IL - MKT- 14 | Rural & Agriculture Marketing | IV |
| 411 MKT | SE - IL - MKT- 15 | Tourism & Hospitality Marketing | IV |
| 412 MKT | SE - IL - MKT- 16 | Retail Marketing | IV |
| 413 MKT | SE - IL - MKT- 17 | Retailing Analytics | IV |
| 414 MKT | SE - IL - MKT- 18 | Marketing to Emerging Markets & Bottom of the Pyramid | IV |



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| 3.0 | | E (SC) COURSES: Specialization – Financial Management | |
|------------|---------------|---|----------|
| Course No. | Course Code | arks FORMATIVE ASSESSMENT, 50 Marks SUMMATIVE E | Semester |
| 205 FIN | SC - FIN - 01 | Financial Markets and Banking Operations | II |
| 206 FIN | SC - FIN - 02 | Personal Financial Planning | II |
| 304 FIN | SC - FIN - 03 | Advanced Financial Management | III |
| 305 FIN | SC - FIN - 04 | International Finance | III |
| 403 FIN | SC - FIN - 05 | Financial Laws | IV |
| 404 FIN | SC - FIN - 06 | Current Trends & Cases in Finance | IV |

| | | (SE - IL) COURSES: Specialization – Financial Management (FIN | |
|------------|--|---|-----------|
| | The second secon | ks FORMATIVE ASSESSMENT, 00 Marks SUMMATIVE EVALUA | TION |
| Course No. | Course Code | Course | Semester |
| | Maximum 2 c | ourses to be selected from the following list in Semester II | |
| 217 FIN | SE - IL - FIN - 01 | Securities Analysis & Portfolio Management | II |
| 218 FIN | SE – IL - FIN - 02 | Futures and Options | 11 |
| 219 FIN | SE – IL - FIN - 03 | Direct Taxation | H |
| 220 FIN | SE - IL - FIN - 04 | Financial Reporting | 11 |
| 221 FIN | SE - IL - FIN - 05 | Retail Credit Management- Lending & Recovery | 11 |
| 222 FIN | SE - IL - FIN - 06 | Banking Laws & Regulations | 11 |
| 223 FIN | SE - IL - FIN - 07 | Fundamentals of Life Insurance – Products and Underwriting | 11 |
| 224 FIN | SE - IL - FIN - 08 | General Insurance - Health and Vehicle | 11 |
| | Maximum 3 c | ourses to be selected from the following list in Semester III | |
| 312 FIN | SE - IL - FIN - 09 | Behavioural Finance | 111 |
| 313 FIN | SE - IL - FIN - 10 | Technical Analysis of Financial Markets | Ш |
| 314 FIN | SE - IL - FIN - 11 | Commodities Markets | III |
| 315 FIN | SE - IL - FIN - 12 | Indirect Taxation | 111 |
| 316 FIN | SE - IL - FIN - 13 | Corporate Financial Restructuring | III |
| 317 FIN | SE – IL - FIN - 14 | Financial Modeling | 111 |
| 318 FIN | SE - IL - FIN - 15 | Digital Banking | III |
| 319 FIN | SE - IL - FIN - 16 | Treasury Management | HL |
| 320 FIN | SE - IL - FIN - 17 | Project Finance and Trade Finance | 111 |
| 321 FIN | SE - IL - FIN - 18 | Insurance Laws & Regulations | 111 |
| 322 FIN | SE - IL - FIN - 19 | Marine Insurance | 111 |
| 323 FIN | SE – IL - FIN – 20 | Fire Insurance | HI |
| LA SINE | Maximum 2 c | courses to be selected from the following list in Semester IV | Bull 1997 |
| 409 FIN | SE - IL - FIN - 21 | Fixed Income Securities | IV |
| 410 FIN | SE - IL - FIN - 22 | Business Valuation | IV |
| 411 FIN | SE - IL - FIN - 23 | Risk Management | IV |
| 412 FIN | THE RESERVE SHARE | Strategic Cost Management | IV |
| 413 FIN | THE RESERVE | Rural and Micro Finance | IV |
| 414 FIN | The state of the s | Reinsurance | IV |
| 415 FIN | SE - IL - FIN - 27 | Agricultural Insurance | IV |

| 3 0 | redits Each, 50 Mai | COURSES: Specialization – Human Resource Management (ks FORMATIVE ASSESSMENT, 50 Marks SUMMATIVE EVAL | HATION |
|------------|---------------------|---|--|
| Course No. | Course Code | Course | The state of the s |
| 205 HR | SC - HRM - 01 | Competency Based Human Resource Management | Semester |



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| 206 HR | SC - HRM - 02 | Employee Relations & Labour Legislation | II |
|--------|---------------|---|-----|
| 304 HR | SC - HRM - 03 | Strategic Human Resource Management | III |
| 305 HR | SC - HRM - 04 | HR Operations | III |
| 403 HR | SC - HRM - 05 | Organizational Diagnosis & Development | IV |
| 404 HR | SC - HRM - 06 | Current Trends & Cases in Human Resource Management | IV |

| 2 Cre | dits Each, 50 Marks F | ORMATIVE ASSESSMENT, 00 Marks SUMMATIVE EVALU | ATION |
|------------|-----------------------|--|----------|
| Course No. | Course Code | Course | Semester |
| | Maximum 2 cours | es to be selected from the following list in Semester II | |
| 217 HRM | SE - IL - HRM - 01 | Labour Welfare | П |
| 218 HRM | SE – IL - HRM - 02 | Lab in Recruitment and Selection | 11 |
| 219 HRM | SE - IL - HRM - 03 | Learning and Development | II |
| 220 HRM | SE - IL - HRM - 04 | Public Relations & Corporate Communications | II |
| 221 HRM | SE - IL - HRM - 05 | HR Analytics | 11 |
| 222 HRM | SE - IL - HRM - 06 | Conflict and Negotiation Management | 11 |
| | Maximum 3 cours | ses to be selected from the following list in Semester III | |
| 312 HR | SE - IL - HRM - 07 | Talent Management | III |
| 313 HR | SE - IL - HRM - 08 | Psychometric Testing and Assessment | III |
| 314 HR | SE - IL - HRM - 09 | HR perspective in Mergers and Acquisition | III |
| 315 HR | SE - IL - HRM - 10 | International HR | H |
| 316 HR | SE - IL - HRM - 11 | Mentoring and Coaching | 111 |
| 317 HR | SE - IL - HRM - 12 | Compensation and Reward management | III |
| 318 HR | SE - IL - HRM - 13 | Performance Management System | 111 |
| 319 HR | SE - IL - HRM - 14 | Change Management & New Technologies in HRM | 111 |
| | Maximum 2 cour | ses to be selected from the following list in Semester IV | |
| 409 HR | SE - IL - HRM - 15 | Labour Legislation | IV |
| 410 HR | SE - IL - HRM - 16 | Designing HR Policies | IV |
| 411 HR | SE - IL - HRM - 17 | Labour Economics and Costing | IV |
| 412 HR | SE - IL - HRM - 18 | Best Practices in HRM | IV |
| 413 HR | SE - IL - HRM - 19 | Employee Engagement and Ownership | IV |
| 414 HR | SE - IL - HRM - 20 | Leadership and Succession Planning | IV |
| 415 HR | SE - IL - HRM - 21 | E - HRM | IV |



Dr. Priyanka Singh
Dr.D.Y.Patineaute of M.s. cment &
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| 3 Cr | edits Each, 50 Mark | s FORMATIVE ASSESSMENT, 50 Marks SUMMATIV | E EVALUATION |
|------------|---------------------|---|--------------|
| Course No. | Course Code | Course | Semester |
| 205 OSCM | SC - OSCM - 01 | Services Operations Management - I | II II |
| 206 OSCM | SC - OSCM - 02 | Supply Chain Management | II. |
| 304 OSCM | SC - OSCM - 03 | Services Operations Management - II | III |
| 305 OSCM | SC - OSCM - 04 | Logistics Management | III |
| 403 OSCM | SC - OSCM - 05 | E Supply Chains & Logistics | IV |
| 404 OSCM | SC - OSCM - 06 | Industry 4.0 | IV |

| 2 Cred | lits Each, 50 Marks FORMA | TIVE ASSESSMENT, 00 Marks SUMMATIVE EVALUATION | |
|------------|---------------------------|---|----------|
| Course No. | Course Code | Course | Semester |
| | Maximum 2 courses to b | e selected from the following list in Semester II | 1819 |
| 217 OSCM | SE - IL - OSCM - 01 | Planning & Control of Operations | 11 |
| 218 OSCM | SE - IL - OSCM - 02 | Productivity Management | 11 |
| 219 OSCM | SE - IL - OSCM - 03 | Inventory Management | 11 |
| 220 OSCM | SE - IL - OSCM - 04 | Theory of Constraints | 11 |
| 221 OSCM | SE - IL - OSCM - 05 | Quality Management Standards | 11 |
| 222 OSCM | SE - IL - OSCM - 06 | Service Value Chain Management | 11 |
| | Maximum 3 courses to | be selected from the following list in Semester III | |
| 312 OSCM | SE - IL - OSCM - 07 | Manufacturing Resource Planning | III |
| 313 OSCM | SE - IL - OSCM - 08 | Sustainable Supply Chains | III |
| 314 OSCN | SE - IL - OSCM - 09 | Business Excellence | Ш |
| 315 OSCN | 1 SE - IL - OSCM - 10 | Toyota Production System | Ш |
| 316 OSCN | 1 SE - IL - OSCM - 11 | Operations and Services Strategy | III |
| 317 OSCN | M SE-IL-OSCM-12 | Six Sigma for Operations | III |
| | Maximum 2 courses to | be selected from the following list in Semester IV | |
| 409 OSC! | M SE - IL - OSCM - 14 | Enterprise Resource Planning | IV |
| 410 OSC | M SE-IL-OSCM-15 | World Class Manufacturing | IV |
| 411 OSC | M SE-IL-OSCM-16 | Supply Chain Strategy | IV |
| 412 OSC | M SE-IL-OSCM-17 | Financial Perspectives in Operations Management | IV |
| 413 OSC | M SE - IL - OSCM - 18 | Facilities Planning | IV |
| 414 OSC | M SE-IL-OSCM-19 | Purchasing and Supplier Relationship Management | IV |
| 415 OSC | M SE-IL-OSCM - 20 | Strategic Supply Chain Management | IV |



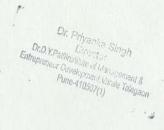
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| 2.0 | | RE (SC) COURSES: Specialization – Business Analytics (BA) irks FORMATIVE ASSESSMENT, 50 Marks SUMMATIVE EVALUA | TION |
|------------|--------------|---|----------|
| Course No. | Course Code | Course | Semester |
| 205 BA | SC - BA - 01 | Basic Business Analytics using R | 11 |
| 206 BA | SC - BA - 02 | Data Mining | 11 |
| 304 BA | SC - BA - 03 | Advanced Statistical Methods using R | HI |
| 305 BA | SC - BA - 04 | Machine Learning & Cognitive intelligence using Python | III |
| 403 BA | SC - BA - 05 | Economics of Network Industries | IV |
| 404 BA | SC - BA - 06 | Artificial Intelligence in Business Applications | IV |

| | SUBJECT ELECTIV | E (SE - IL) COURSES: Specialization — Business Analytics (BA | 4) |
|------------|---------------------|--|-------------------|
| 2 Cr | edits Each, 50 Mark | s FORMATIVE ASSESSMENT, 00 Marks SUMMATIVE EVAL | UATION |
| Course No. | Course Code | Course | Semester |
| | Maximum 2 co | urses to be selected from the following list in Semester II | |
| 217 BA | SE - IL - BA - 01 | Marketing Analytics | 11 |
| 218 BA | SE - IL - BA - 02 | Retailing Analytics | 11 |
| 219 BA | SE - IL - BA - 03 | Workforce Analytics | 11 |
| 220 BA | SE - IL - BA - 04 | Tableau | н |
| 221 BA | SE - IL - BA - 05 | Data Warehousing Project Life Cycle Management |)I |
| | Maximum 3 co | urses to be selected from the following list in Semester III | before the second |
| 312 BA | SE - IL - BA - 06 | Social Media, Web & Text Analytics | III |
| 313 BA | SE - IL - BA - 07 | Industrial Internet of Things | Ш |
| 314 BA | SE - IL - BA - 08 | Supply Chain Analytics | III |
| 315 BA | SE - IL - BA - 09 | Cognos Analytics | III |
| 316 BA | SE - IL - BA - 10 | Predictive Modelling using SPSS Modeler | III |
| 317 BA | SE - IL - BA - 11 | E commerce Analytics - I | 111 |
| | Maximum 2 co | ourses to be selected from the following list in Semester N | |
| 409 BA | SE – IL - BA - 13 | E Commerce Analytics - II | IV |
| 410 BA | SE - IL - BA - 14 | Healthcare Analytics | IV |
| 411 BA | SE - IL - BA - 15 | Watson | IV |
| 412 BA | SE - IL - BA - 16 | Scala and Spark | IV |







[D] FOUNDATION (FOU) COURSES (ELECTIVES) - 1 Credit Each 25 Marks FORMATIVE ASSESSMENT, 00 Marks SUMMATIVE EVALUATION Between ZERO to SIX courses to be selected from the following list in Semester I and / or Between ZERO to FOUR courses to be selected from the following list in Semester II Semester Course No. **Course Code** Course **Elementary English** FOU - 001 1 1 FOU - 002 **Elementary Mathematics & Statistics** 2 **Elementary Economics** FOU - 003 3 FOU - 004 **Elementary Accounting** 4 5 FOU - 005 **Elementary Information Technology Elementary Business Etiquette** 6 FOU - 006 11 FOU - 007 7 Elementary MS WORD 11 8 FOU - 008 **Elementary MS POWERPOINT** Elementary Data Interpretation & Logical Reasoning 11 9 FOU - 009 11 Elementary Verbal and Reading Comprehension FOU - 010 10



FOU - 011

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Elementary Quantitative Ability



11

[E] ENRICHMENT (ENR) COURSES (ELECTIVES) - 1 Credit Each

25 Marks FORMATIVE ASSESSMENT, 00 Marks SUMMATIVE EVALUATION

Between ZERO to SIX courses to be selected from the following list in Semester I and / or

Between ZERO to FOUR courses to be selected from the following list in Semester II and / or

Between ZERO to TWO courses to be selected from the following list in Semester III and / or

Between ZERO to FOUR courses to be selected from the following list in Semester IV

| ourse | Course Code | Proficiency Track | Course | Semester |
|-------|---|-------------------|---|----------|
| 1 | ENR - 1 | Entrepreneurship | Entrepreneurship in The Online Economy – Seminar | Any |
| 2 | ENR - 2 | Entrepreneurship | Management Skills for MSMEs – Seminar | Any |
| 3 | ENR - 3 Entrepreneurship Business Plan for Small Business - Case Study Development and Presentation | | Any | |
| 4 | ENR - 4 | Entrepreneurship | The Elevator Pitch - Case Study Development and Presentation | Any |
| 5 | ENR - 5 | Entrepreneurship | Private Equity – Seminar | Any |
| 6 | ENR - 6 | Entrepreneurship | Launching & Sustaining Start-Ups- Case Study Development and Presentation | Any |
| 7 | ENR - 7 | Entrepreneurship | Start-Up Fest | Any |
| 8 | ENR - 8 | Entrepreneurship | Marketing on a shoe string budget for Small Business - Case Study Development and Presentation | Any |
| 9 | ENR - 9 | Entrepreneurship | Growing business through Franchising - Case Study Development and Presentation | Any |
| 10 | ENR - 10 | Entrepreneurship | Finance and Accounting aspects of Small Businesses - Case Study Development and Presentation | Any |
| 11 | ENR - 11 | Entrepreneurship | Planning, Structuring, and Financing Small Businesses - Case Study Development and Presentation | Any |
| 12 | ENR - 12 | Entrepreneurship | Digital Marketing for MSMEs- Case Study Development and Presentation | |
| 13 | | | | Any |
| 14 | ENR - 14 | Entrepreneurship | Contemporary Indian Models in Entrepreneurship - Case Study Development and Presentation | Any |
| 15 | ENR - 15 | Entrepreneurship | Women Entrepreneurs in Contemporary India - Case Study Development and Presentation | Any |
| 16 | ENR - 16 | Desk Research | Review of National Databases & Reports | Any |
| 17 | ENR - 17 | Desk Research | Review of Industry Databases | Any |
| 18 | B ENR - 18 | Desk Research | Review of Industry Best Practice Surveys | Any |
| 19 | ENR - 19 | Desk Research | Review of Global Best Practice Surveys | Any |
| 20 | ENR - 20 | Desk Research | Review of TED Talks | Any |
| 2 | 1 ENR - 21 | Desk Research | Book Reviews | Any |
| 2 | 2 ENR - 22 | Desk Research | Emerging Trends in Business - Seminar | Any |
| 2 | 3 ENR - 23 | Desk Research | Best Business Practices - Case Study Development and Presentation | Any |
| 2 | 4 ENR - 24 | Desk Research | Disruptive Business Practices - Case Study Development and Presentation | Any |

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| 25 | ENR - 25 | Desk Research | Business Houses & Business Families in India - Case Study Development and Presentation | Any |
|----|----------|----------------------------|---|-----|
| 26 | ENR - 26 | Desk Research | Industry Specific Governance & Compliances - Seminar | Any |
| 27 | ENR - 27 | Desk Research | Business Excellence Awards & Awardees - Case Study Development and Presentation | Any |
| 28 | ENR - 28 | Managerial Effectiveness | Design Thinking Workshop | Any |
| 29 | ENR - 29 | Managerial Effectiveness | Problem Solving Tools & Techniques Workshop | Any |
| 30 | ENR - 30 | Managerial Effectiveness | Theory of Constraints Workshop | Any |
| 31 | ENR - 31 | Managerial Effectiveness | Six Sigma Applications in Business Workshop | Any |
| 32 | ENR - 32 | Managerial Effectiveness | Budgeting Workshop | Any |
| 33 | ENR - 33 | Managerial Effectiveness | i-Lab Design Thinking Projects Workshop | Any |
| 34 | ENR - 34 | Managerial Effectiveness | Public Relations Workshop | Any |
| 35 | ENR - 35 | Managerial Effectiveness | Cross Cultural Relationship Marketing Workshop | Any |
| 36 | ENR - 36 | Managerial Effectiveness | Digital Productivity Tools Workshop | Any |
| 37 | ENR - 37 | Managerial Effectiveness | Effective Meetings Management Workshop | Any |
| 38 | ENR - 38 | Managerial Effectiveness | Balanced Score Card - Case Study Development and Presentation | Any |
| 39 | ENR - 39 | Perspectives on Management | Management Thinkers & Contributions - Seminar | Any |
| 40 | ENR - 40 | Perspectives on Management | Enduring Management Principles & Thoughts - Seminar | |
| 41 | ENR - 41 | Perspectives on Management | Mysteries in Management - Seminar | |
| 42 | ENR - 42 | Perspectives on Management | Management - The Future Frontiers - Seminar | |
| 43 | ENR - 43 | Perspectives on Management | Leaderships Lessons from Non- business leaders – Seminar | |
| 44 | ENR - 44 | Perspectives on Management | Leadership Lessons from Antiquity - Seminar | Any |
| 45 | ENR - 45 | Perspectives on Management | Leading in the 21st Century - Case Study Development and Presentation Strategy in a VUCA world - Case Study | Any |
| 46 | ENR - 46 | Perspectives on Management | Development and Presentation The Economics & Politics of NGOs - | Any |
| 47 | ENR - 47 | Economy & Polity | Case Study Development and Presentation | Any |
| 48 | ENR - 48 | Economy & Polity | Politics & Governance - Seminar | Any |
| 49 | ENR - 49 | Economy & Polity | Climate Change Politics & Policy - Seminar | Any |
| 50 | ENR - 50 | Economy & Polity | Energy Economics - Seminar | Any |
| 51 | ENR - 51 | Economy & Polity | Civil Society, New Social Movements & Public Policy - Case Study Development and Presentation | Any |
| 52 | ENR - 52 | Economy & Polity | Corporations, NGOs & Civil societies - Seminar | Any |
| 53 | ENR - 53 | Economy & Polity | Environment & Development - Seminar | Any |
| | ENR - 54 | Economy & Polity | Globalization & Localization - Seminar | Any |
| 55 | ENR - 55 | Economy & Polity | Strategic Transformation and Change in the Indian Economy - Case Study Development and Presentation | |
| 56 | ENR - 56 | Communication | Verbal Communication & Presentation Skills Workshop | Any |

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| 57 | ENR - 57 | Communication | Visual Communication Workshop | Any |
|----|----------|------------------------------------|--|-----|
| 58 | ENR - 58 | Communication | Communication Through Theatre Techniques Workshop | Any |
| 59 | ENR - 59 | Communication | Technical Writing Workshop | Any |
| 60 | ENR - 60 | Communication | Walk the Talk - Leader / Entrepreneur Interviews Lab | Any |
| 61 | ENR - 61 | Communication | Creative Writing Workshop | Any |
| 62 | ENR - 62 | Communication | Blog Writing Workshop | Any |
| 63 | ENR - 63 | Behavioural & Interpersonal Skills | Transactional Analysis Lab | Any |
| 64 | ENR - 64 | Behavioural & Interpersonal Skills | Emotional Intelligence & Managerial Effectiveness Lab | Any |
| 65 | ENR - 65 | Behavioural & Interpersonal Skills | Influence & Persuasion Lab | Any |
| 66 | ENR - 66 | Behavioural & Interpersonal Skills | Negotiation Skills Lab | Any |
| 67 | ENR - 67 | Behavioural & Interpersonal Skills | Team Selling Lab | Any |
| 68 | ENR - 68 | Technology | Technology Clinic | Any |
| 69 | ENR - 69 | Technology | Digital Innovation and Transformation – Seminar | Any |
| 70 | ENR - 70 | Technology | Social Impact of Technology - Case Study Development and Presentation | Any |
| 71 | ENR - 71 | Technology | Technology Commercialization – Seminar | Any |
| 72 | ENR - 72 | Technology | Intellectual Property Rights – Seminar | Any |
| 73 | ENR - 73 | Technology | Strategy and Technology – Seminar | Any |
| 74 | ENR - 74 | Technology | Internet of Things – Seminar | Any |
| 75 | ENR - 75 | Technology | Cyber Security – Seminar | Any |
| 76 | ENR - 76 | Technology | Gamification Workshop | Any |
| 77 | ENR - 77 | Understanding India | Skill-India - Case Study Development and Presentation | |
| 78 | ENR - 78 | Understanding India | Smart-Cities - Case Study Development and Presentation | |
| 79 | ENR - 79 | Understanding India | Swacch Bharat - Case Study Development and Presentation | Any |
| 80 | ENR - 80 | Understanding India | Make-in-India - Case Study Development and Presentation | Any |
| 81 | ENR - 81 | Understanding India | Constitution of India – Seminar | Any |
| 82 | ENR - 82 | Understanding India | Indian Social Structure - Case Study Development and Presentation | Any |
| 83 | ENR - 83 | Understanding India | Methodological Foundations of Indian Scientific Tradition – Seminar | Any |
| 84 | ENR - 84 | Understanding India | Some Scientific Concepts from Sanskrit Texts – Seminar | Any |
| 85 | ENR - 85 | Understanding India | Film Appreciation - Case Study Development and Presentation | Any |
| 86 | ENR - 86 | Understanding India | Culture, Diversity & Society – Seminar | Any |
| 87 | ENR - 87 | Understanding India | Contemporary Debates in Business & Society – Seminar | Any |
| 88 | ENR - 88 | Understanding India | Consumerism and Sociology of the Family – Seminar | Any |
| 89 | ENR - 89 | Understanding India | Culture and Media – Seminar | Any |
| 90 | ENR - 90 | Understanding India | Business History – Seminar | Any |
| 91 | ENR - 91 | Unconventional Sectors | onventional Sectors Educational Institutions Management - Case Study Development and Presentation | |
| 92 | ENR - 92 | Unconventional Sectors | The Business of Bollywood - Case Study Development and Presentation | Any |



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| 93 | ENR - 93 | Unconventional Sectors | Contemporary Sports: A Business Perspective - Case Study Development and Presentation | Any |
|-----|-----------|--------------------------------|---|-----|
| 94 | | | Managing Public Festivals , Exhibitions & Fairs - Case Study Development and Presentation | Any |
| 95 | ENR - 95 | Unconventional Sectors | Agro Tourism- Case Study Development and Presentation | Any |
| 96 | ENR - 96 | Ethics & Social Responsibility | Rural Immersion Project | Any |
| 97 | ENR - 97 | Ethics & Social Responsibility | Managing for bottom of the Pyramid Business – Seminar | Any |
| 98 | ENR - 98 | Ethics & Social Responsibility | Digital Technologies For Social Inclusion - Case Study Development and Presentation | Any |
| 99 | ENR - 99 | Ethics & Social Responsibility | Social Impact Analysis for Local Community Projects - Case Study Development and Presentation | Any |
| 100 | ENR - 100 | Ethics & Social Responsibility | Social & Ethical Aspects of Healthcare – Seminar | Any |
| 101 | ENR - 101 | Ethics & Social Responsibility | Spirituality for Managers – Seminar | Any |
| 102 | ENR - 102 | Personal Interest Course | Yoga | Any |
| 103 | ENR - 103 | Personal Interest Course | Vedic Maths | Any |
| 104 | ENR - 104 | Personal Interest Course | Graphology | Any |
| 105 | ENR - 105 | Personal Interest Course | Caligraphy | Any |
| 106 | ENR - 106 | Personal Interest Course | Music | Any |
| 107 | ENR - 107 | Personal Interest Course | Dance | Any |
| 108 | ENR - 108 | Personal Interest Course | Adventure Sports | Any |
| 109 | ENR - 109 | Personal Interest Course | Hackathon | Any |
| 110 | ENR - 110 | Personal Interest Course | Local Community Development Project | Any |
| 111 | ENR - 111 | Personal Interest Course | Videography | Any |
| 112 | ENR - 112 | Personal Interest Course | Fine Arts | Any |



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Dr.D.Y.Palilishin to if Management &
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[F] ALTERNATIVE STUDY CREDIT COURSES (ASCC) (ELECTIVES) - 2 Credit Each

50 Marks FORMATIVE ASSESSMENT, 00 Marks SUMMATIVE EVALUATION

Between ZERO to THREE courses to be selected from the following list in Semester I* and / or

Between ZERO to THREE courses to be selected from the following list in Semester II*
and / or

Between ZERO to THREE courses to be selected from the following list in Semester III*
and / or

Between ZERO to TWO courses to be selected from the following list in Semester IV"

| Course No. | Course Code | Course | Semester |
|------------|-------------|-------------------------------------|----------|
| 1 | ASCC - 001 | MOOCs | Any |
| 2 | ASCC - 002 | Professional Certification Programs | Any |
| 3 | ASCC - 003 | CSR Project | Any |
| 4 | ASCC - 004 | Innovation Projects | Any |
| 5 | ASCC - 005 | Industry or Academic Internships | Any |
| 6 | ASCC - 006 | Field/Live Projects | Any |

[#] Same type of course can be selected multiple number of times.



Dr. Priyanka Singh
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MINOR ONLY SPECIALIZATIONS

| | Specializa | tion – Rural & Agri -Business Management (RABM) | |
|--------------------------|---|---|--------------------------------|
| Course No. | Course Code | Course | Semester |
| | 2 CORE courses | as per the following list – in Semester III or Semester IV | |
| 1 | SC - RABM - 01 | Agriculture and Indian Economy | 111 |
| 2 | SC - RABM - 02 | ICT for Agriculture Management | IV |
| Any 2 ELE | CTIVE courses to be | selected from the following list - either in Semester III or Se | mester IV |
| 1 | SE - RABM - 03 | Rural Credit and Finance | 111 |
| 2 | SE - RABM - 04 | Rural Marketing - I | 111 |
| 3 | SE- RABM - 05 | Agri – Entrepreneurship | IV |
| 4 | SE - RABM - 06 | Rural Marketing II | IV |
| USTATION. | Specializa | ition – Pharma & Health Care Management (PHCM) | |
| Course No. | Course Code | Course | Semester |
| | 2 CORE course | s as per the following list – in Semester III or Semester IV | Semester |
| 1 | SC - PHCM- 01 | Fundamentals of Pharma and Healthcare Management | III |
| 2 | SC - PHCM- 02 | Pharma and healthcare regulatory environment in India | IV |
| Any 2 ELE | CTIVE courses to be | e selected from the following list – either in Semester III or Ser | |
| 1 | SE - PHCM- 03 | Strategic Planning & Healthcare Management | III |
| 2 | SE - PHCM- 04 | Information Technology in Pharma and Healthcare | III |
| 3 | SE - PHCM- 05 | Pharmaceutical Import and Export | IV |
| 4 | SE - PHCM- 06 | Entrepreneurship in Pharma and Healthcare | 38 |
| THE PARTY | Specializ | ation – Tourism & Hospitality Management (THM) | IV |
| Course No. | Course Code | Course Course | |
| | 2 CORE course | s as per the following list – in Semester III & Semester IV | Semester |
| 1 | SC - THM - 01 | Fundamentals of Hospitality Management | |
| 2 | SC - THM - 02 | Tourism & Travel Management | 111 |
| Any 2 ELE | CTIVE courses to be | e selected from the following list – either in Semester III or Sei | IV |
| 1 | SE - THM - 03 | Event Management | |
| 2 | SE – THM - 04 | Tourism Planning & Development | III |
| 3 | SE - THM - 05 | Strategic Hospitality Management | III |
| | SE - THM - 06 | Revenue Management | IV |
| 4 | | | IV |
| 4 | | | |
| Course No. | | ization – International Business Management (IB) | |
| | Special Course Code | ization – International Business Management (IB) Course | |
| | Special Course Code | ization – International Business Management (IB) Course es as per the following list – in Semester III & Semester IV | Semester |
| Course No. | Special Course Code 2 CORE course | ization – International Business Management (IB) Course es as per the following list – in Semester III & Semester IV Import Export Documentation and Procedures | Semester |
| Course No. | Special Course Code 2 CORE course SC - IB - 01 SC - IB - 02 | ization – International Business Management (IB) Course as as per the following list – in Semester III & Semester IV Import Export Documentation and Procedures Global Trade and Logistics Management | Semester |
| Course No. | Special Course Code 2 CORE course SC - IB - 01 SC - IB - 02 | Course sas per the following list – in Semester III & Semester IV Import Export Documentation and Procedures Global Trade and Logistics Management se selected from the following list – either in Semester III or Se | Semester III IV mester IV |
| Course No. 1 2 Any 2 EL | Special Course Code 2 CORE course SC - IB - 01 SC - IB - 02 ECTIVE courses to b | course sas per the following list – in Semester III & Semester IV Import Export Documentation and Procedures Global Trade and Logistics Management se selected from the following list – either in Semester III or Se Cross Cultural Management and Global Leadership | Semester V mester V |
| Course No. 1 2 Any 2 EL | Special Course Code 2 CORE course SC - IB - 01 SC - IB - 02 ECTIVE courses to b | Course sas per the following list – in Semester III & Semester IV Import Export Documentation and Procedures Global Trade and Logistics Management se selected from the following list – either in Semester III or Se | Semester III IV mester IV |



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Savitribai Phule Pune University, Pune

Faculty of Commerce and Management

Master of Computer Applications (MCA)

Programme Curriculum (Sem. I & II) (2020-2022)

Preamble:

- 1. The name of the programme shall be Masters of Computer Applications (M.C.A)
- The revised MCA Curriculum 2020 builds on the implementation of the Choice Based Credit System (CBCS) and Grading System initiated in the AY 2015. The curriculum takes the MCA programme to the next level in terms of implementing Outcome Based Education along with the Choice Based Credit System (CBCS) and Grading System.
- 3. The Institutes should organize placement programme for M.C.A. students by interacting with Industries and software consultancy.
- 4. At the end of each semester, appearing for various certifications is possible for each student enabling them to make their resume rich.
- With the rapidly changing scenario industry and academia should identify possible areas of collaboration and work together. Institute's placement cell should focus on identifying industrial expectations and institutional preparation for meeting industrial needs.

Introduction:

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- 1. Definition: Outcome Based Education:
- 1.1 Outcome Based Education (OBE) Approach: Outcomes are about performance, and this implies:
 - 1.1.1 There must be a performer the student (learner), not only the teacher
 - 1.1.2 There must be something performable (thus demonstrable or assessable) to perform
 - 1.1.3 The focus is on the performance, not the activity or task to be performed
- 1.2 Programme Educational Objectives (PEOs): Programme educational objectives are broad statements that describe the career and professional accomplishments that the programme is preparing graduates to achieve. Programme Educational Objectives are a set of broad future focused learner's performance outcomes that explicitly identify what learners will be able to do with what they have learned, and what they will be like after they leave institution and are living full and productive lives. Thus, PEOs are what the programme is preparing graduates for in their career and professional life (to attain within a few years after graduation).

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- 1.3 Programme Outcomes (POs): Programme Outcomes are a set of narrow statements that describes what students (learners) of the programme are expected to know and be able to perform or attain by the time of graduation.
- 1.4 Course Outcomes (COs): Course Outcomes are narrower statements that describe what students are expected to know and be able to do at the end of each course. These relate to the skills, knowledge, and behavior that students acquire in their matriculation through the course.
- 1.5 Learning Outcomes: A learning outcome is what a student CAN DO because of a learning experience. It describes a specific task that he/she can perform at a given level of competence under a certain situation. The three broad types of learning outcomes are: a) Disciplinary knowledge and skills b) Generic skills c) Attitudes and values
- 1.6 Teaching and Learning Activities (TLAs): The set of pedagogical tools and techniques or the teaching and learning activities that aim to help students to attain the intended learning outcomes and engage them in these learning activities through the teaching process.
- 1.7 Assessment and Evaluation: Assessment is one or more processes, carried out by the institution, that identify, collect, and prepare data to evaluate the achievement of programme educational objectives and programme outcomes. Evaluation is one or more processes, done by the evaluation team, for interpreting the data and evidence accumulated through assessment practices. Evaluation
- **1.8** determines the extent to which programme educational objectives or programme outcomes are being achieved, and results in decisions and actions to improve the programme.

2. MCA Programme Focus:

The basic objective of the Master of Computer Applications (MCA) is to provide a steady stream of necessary knowledge, skills and foundation for acquiring a wide range of rewarding careers into rapidly expanding world of Information Technology

- 2.1 Programme Educational Objectives: PEOs are defined by institution. Following are the guidelines for defining PEOs
 - 2.1.1 PEOs should be assessable and realistic within the context of the committed resources.
 - 2.1.2 The PEOs should be consistent with the mission of the institution.
 - 2.1.3 All the stakeholders should participate in the process of framing PEOs.
 - 2.1.4 The number of PEOs should be manageable.
 - 2.1.5 It should be based on the needs of the stakeholders.
 - 2.1.6 It should be achievable by the programme.
 - 2.1.7 It should be specific to the programme and not too broad.
 - 2.1.8 It should not be too narrow and similar to the POs.
 - 2.2 MCA Programme Outcomes (POs): At the end of the MCA programme the learner will possess the following Program Outcome:

PO1: Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.



PO2: Identify, formulate, research literature, and solve *complex* Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.

PO3: Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PO4: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

PO5: Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.

PO6: Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.

PO7: Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.

PO8: Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO9: Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.

PO10: Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.

PO11: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.

PO12: Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.

3. Admission Details:

- 3.1 Eligibility for Admission: The eligibility criteria for admission for the MCA course will be as decided by the All Indian Council of Technical Education (AICTE), New Delhi and Directorate of Technical Education (DTE), Government of Maharashtra. It will be published on their respective websites time to time.
- **3.2 Reservation of Seat:** The percentage of seat reserved for candidates belonging to backward classes only from Maharashtra State in all the Government Aided, Un-aided Institutions/Colleges and University Departments is as per the norms given by Government of Maharashtra, time to time.



Dr. Priyanka Singh
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3.3 Selection Basis: The selection would be done as per the guidelines given by the Director of Technical Education, Maharashtra State, time to time.

4. Lecture-Practical/Project-Tutorial (L-P-T)

A course shall have either or all the three components, i.e. a course may have only lecture component, or only practical/project component or a combination of any two/three components

- **4.1 Lecture(L):** Classroom sessions delivered by faculty in an interactive mode. It should be conducted as per the scheme of lectures indicated in respective course.
- 4.2 Practical/Project(P): Practical / Project Work consisting of Hands-on experience /Field Studies / Case studies that equip students to acquire the much-required skill component. Besides separate Practical/Project course, three courses in each semester include few practical assignments and it will be evaluated under internal evaluation
- 4.3 Tutorial(T): Session consisting of participatory discussion/ self-study/ desk work/ brief seminar presentations by students and such other novel methods that make a student to absorb and assimilate more effectively the contents delivered in the Lecture sessions
- **4.4 A Mini project** is an assignment that the student needs to complete at the end of every semester in order to strengthen the understanding of fundamentals through effective application of the courses learnt. The details guidelines have been given in the course structure.
- **4.5** The Project Work to be conducted in the FINAL Semester and evaluated at the end of the semester. The detail guidelines have been in the respective course structure.
- **4.6** The teaching / learning as well as evaluation are to be interpreted in a broader perspective as follows:
 - Teaching Learning Processes: Classroom sessions, Group Exercises, Seminars, Small Group Projects, Self-study, etc.
 - ii) Evaluation: Tutorials, Class Tests, Presentations, Field work, Assignments, competency-based Activity, Research papers, Term papers, etc.

The MCA programme is a combination of:

- a. Three-Credit Courses (75 Marks each): 3 Credits each
- b. Two-Credit Courses (50 Marks each): 2 Credits each
- c. One-Credit Courses (25 Marks each): 1 Credits each

Following are the session details per credit for each of L-P-T model

- 1) Every ONE-hour session per week of Lecture(L) amounts to 1 credit per semester,
- 2) Minimum of TWO hours per week of Practical(P) amounts to 1 credit per semester,
- 3) Minimum of ONE hours per week of Tutorial(T) amounts to 1 credit per semester

Open Courses (OC):

Institute has to offer two open courses of 1 credit each per semester to the students from Semester I to Semester III. The motive behind keeping an open course is to make students aware of current/upcoming trends in Information Technology and other domains. Full autonomy is given to the Institute to plan and execute the open courses. It is expected to extend the autonomy to the student

also. Care must be taken to consider credit points and necessary contact hours assigned to it while finalizing any open course for the given semester. In each semester total 2 credits are reserved for open courses.

Suggestive List of OPEN Courses

| | FOR SEMESTER I | | FOR SEMESTER II | | FOR SEMESTER III |
|----|---|--------------|--|----|--------------------------|
| 1 | Data Privacy and Protection | 1 | Software Agent | 1 | Speech Recognition |
| 2 | Linux system administration | 2 | Aptitude building -1 | 2 | Sentiment Analysis |
| 3 | social media listening | 3 | Basics of Tableau | 3 | R Programming |
| 4 | Research Methodology | 4 | Fraud detection | 4 | Gesture recognition |
| 5 | Applied Statistical Methods | 5 | Ruby Basics | 5 | Aptitude building-2 |
| 6 | Digital Marketing | 6 | LaTeX | 6 | Digital Image processing |
| 7 | G-Suite | 7 | Big data Analytics | 7 | Network Security |
| 8 | Joomla | 8 | Game Programming in Unity | 8 | big data Technologies |
| 9 | e-trading | 9 | Block Chain Technology | 9 | AWS Fundamentals |
| 10 | Scratch and MIT App Inventor Programming | 10 | Business Intelligence - be specific | 10 | Edge Computing |
| 11 | Random Forest using MS Excel | 11 | Design Thinking & Problem- solving skills | | |
| 12 | WordPress | 12 | Green Computing | | |
| 13 | MS-OFFICE | 13 | IoT | | |
| 14 | Code ignitor | The state of | | | |

6. Extra Reading and Certification:

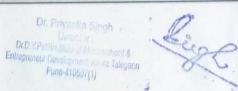
Each Chapter in the course is added with the extra reading part which gives extra pointer to gain In-depth knowledge apart from basic knowledge imparted in the syllabus. Learners should be encouraged to complete this extra reading portion as regular practice. Also, each course (Where ever applicable) includes suggested certification which help learners to enrich themselves as per industry demands and requirements.

7. Evaluation and Assessment:

In total 112 credits represent the workload of a year for MCA program.

| Semester | Credit | IE | UE |
|--------------|--------|------|------|
| Semester I | 28 | 350 | 350 |
| Semester II | 28 | 350 | 350 |
| Semester III | 28 | 350 | 350 |
| Semester IV | 28 | 350 | 350 |
| Total | 112 | 1400 | 1400 |
| | | | 2800 |





The final total assessment of the candidate is made in terms of an internal (concurrent) evaluation and an external (university) examination for each course. In total the internal (concurrent) to external (university) marks ratio is maintained 50:50.

In general

- 1) For each course, 25 will be based on evaluation and 50 marks for semester end examination conducted by University, unless otherwise stated.
- The internal evaluation of 25 marks further divided into Written Examination (Assignments/Unit test/written examination etc.), Practicals and Tutorials. The details have been specified in each course.
- 3) There will be one Practical course and one Mini Project course in each semester with 75 marks allotted for internal evaluation and 50 marks allotted for University examination. External assessment will be done by university appointed examiner. During external examination, examiner should ask the programs/practical ONLY from the work book of the students.
- 4) The internal marks will be communicated to the University at the end of each semester, but before the semester-end examinations. These marks will be considered for the declaration of the results.

Guidelines to conduct Mini-Project evaluation for Semester I, Semester II and Semester III of MCA – 2020 pattern

For Internal Evaluation

1. Internal evaluation will be of 75 Marks. It will be distributed as follows

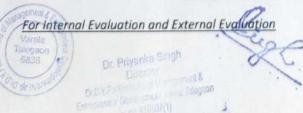
| Description | Marks |
|----------------|-------|
| Project Report | 35 |
| Viva | 15 |
| Working Demo | 25 |
| Total | 75 |

 Project Report (including Project Diary) should be evaluated only during INTERNAL evaluation. Textual chapters should be given 10 marks while diagrams, test cases/validations, screen designs should be evaluated for 20 marks and 5 Marks should be given for Project Diary. Thus, totaling up to 35 marks.

For External Evaluation

- 1. Evaluation will be conducted by one Internal (Appointed by Institute) and one External examiner (Appointed by university).
- 2. External evaluation will be of 50 Marks. It will be distributed as follows

| Description | Marks |
|--------------|-------|
| Viva | 15 |
| Working Demo | 35 |
| Total | 50 |



- VIVA should be conducted based on project domain and technologies used for developing the project. Every team member's individual contribution to the project may vary. Hence VIVA should be based on individual contribution pertaining to the project.
- 2. Working Demo is given maximum weightage to make sure that each group submits executable version of their project.
- Examiners should evaluate efforts and contribution of every individual in the team (in case of group project).
- 4. Examiner may review code of the project while evaluating its working demo and modules.

Examination: Examinations shall be conducted at the end of the semester i.e. during November and in April/May. However supplementary examinations will also be held in November and April/May.

Concurrent Evaluation: A continuous assessment system in semester system (also known as internal assessment/comprehensive assessment) is spread through the duration of course and is done by the teacher teaching the course. The continuous assessment provides a feedback on teaching learning process. The feedback after being analyzed is passed on to the concerned student for implementation and subsequent improvement. As a part of concurrent evaluation, the learners shall be evaluated on a continuous basis by the Institute to ensure that student learning takes place in a graded manner. Concurrent evaluation components should be designed in such a way that the faculty can monitor the student learning & development and intervene wherever required. The faculty must share the outcome of each concurrent evaluation component with the students, soon after the evaluation, and guide the students for betterment Individual faculty member shall have the flexibility to design the concurrent evaluation components in a manner so as to give a balanced assessment of student capabilities across Knowledge, Skills & Attitude (KSA) dimensions based on variety of assessment tools.

Suggested components for Concurrent Evaluation (CE) are:

- 1. Case Study / Situation Analysis (Group Activity or Individual Activity)
- 2. Class Test
- 3. Open Book Test
- 4. Field Visit / Study tour and report of the same
- 5. Small Group Project & Internal Viva-Voce
- 6. Learning Diary
- 7. Scrap Book
- 8. Group Discussion
- 9. Role Play / Story Telling
- 10. Individual Term Paper / Thematic Presentation
- 11. Written Home Assignment
- 12. Industry Analysis (Group Activity or Individual Activity)
- 13. Literature Review / Book Review
- 14. Model Development / Simulation Exercises (Group Activity or Individual Activity)
- 15. In-depth Viva
- 16. Quiz

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Institute can decide the type, method and frequency of Concurrent Evaluation for each course and execute accordingly. Detailed record of the Concurrent Evaluation shall be maintained by the Institute. The same shall be made available to the University, on demand.

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8. Choice based Credit System (CBCS) and Grading:

The detail document about Choice based Credit System for PG Programme is available on university website. The Grading methodology is also available on university website. University reserves rights to revise CBCS and grading system time to time.

9. Medium of Instruction:

The medium of Instruction will be English.

10. Clarification of Syllabus:

It may be necessary to clarify certain points regarding the course. The BOS should meet to study and clarify any difficulties from the Institutes, as and when required.

11. Revision of Syllabus:

As the computer technology is changing very fast, revision of the syllabus should be considered every 2 years.

12.Attendance:

The student must meet the requirement of 75% attendance per semester per course for grant of the term. The Director shall have the right to withhold the student from appearing for examination of a specific course if the above requirement is not fulfilled. Since the emphasis is on continuous learning and concurrent evaluation, it is expected that the student's study all-round the semester. Therefore, there shall not be any preparatory leave before the University examinations.

13.ATKT Rules:

The ATKT rules mention in CBCS handbook (available on university website) is application to MCA Programme.

14. Maximum Duration for completion of the Programme:

The candidates shall complete the MCA Programme WITHIN 5 YEARS from the date of admission, by earning the requisite credits. The student will be finally declared as failed if she/he does not pass in all credits within a total period of four years. After that, such students will have to seek fresh admission as per the admission rules prevailing at that time.

15.Structure of the Programme and detail syllabus of each course:



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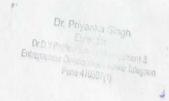


| Semester I | | | | | | | |
|------------|--------------------------------------|-------------|---------|-----|-----|--|--|
| Sr. No. | Course Title | Course Code | СР | EXT | INT | | |
| 1 | Java Programming | IT11 | 3 | 50 | 25 | | |
| 2 | Data Structure and Algorithms | IT12 | 3 | 50 | 25 | | |
| 3 | Object Oriented Software Engineering | IT13 | 3 | 50 | 25 | | |
| 4 | Operating System Concepts | IT14 | 3 | 50 | 25 | | |
| 5 | Network Technologies | IT15 | 3 | 50 | 25 | | |
| 6 | Open Course 1 | OC11 | 1 | | 25 | | |
| 7 | Open Course 2 | OC12 | 1 | | 25 | | |
| | * Practicals | 1000 | ar says | | | | |
| 8 | Practical | IT11L | 5 | 50 | 75 | | |
| 9 | Mini Project | ITC11 | 5 | 50 | 75 | | |
| | Soft Skills | | | | | | |
| 10 | Soft Skills - I | SS11 | 1 | | 25 | | |
| I SELECT | | | 28 | 350 | 35 | | |

| | Semeste | rII | | | |
|---------|--------------------------------|-------------|----|-----|-----|
| Sr. No. | Course Title | Course Code | CP | EXT | INT |
| 1 | Python Programming | IT21 | 3 | 50 | 25 |
| 2 | Software Project Management | IT22 | 3 | 50 | 25 |
| 3 | Optimization Techniques | MT21 | 3 | 50 | 25 |
| 4 | Advanced Internet Technologies | IT23 | 3 | 50 | 25 |
| 5 | Advanced DBMS | IT24 | 3 | 50 | 25 |
| 6 | Open Course 3 | OC21 | 1 | | 25 |
| 7 | Open Course 4 | OC22 | 1 | | 25 |
| | * Practicals | | | | |
| 8 | Practical | IT21L | 5 | 50 | 75 |
| 9 | Mini Project | ITC21 | 5 | 50 | 75 |
| | Soft Skills | | | | |
| 10 | Soft Skills - II | SS21 | 1 | | 25 |
| sulf. | | | 28 | 350 | 350 |







| | Semester III | | | | |
|---------------|---|-------------|----|-----|-----|
| Sr. No. | Course Title | Course Code | СР | EXT | INT |
| 1 | Mobile Application Development | IT31 | 3 | 50 | 25 |
| 2 | Data Warehousing and Data Mining | IT32 | 3 | 50 | 25 |
| 3 | Software Testing and Quality Assurance | IT33 | 3 | 50 | 25 |
| 4 | Knowledge Representation & Artificial Intelligence - ML, DL | IT34 | 3 | 50 | 25 |
| 5 | Cloud Computing | IT35 | 3 | 50 | 25 |
| 6 | Open Course 5 | OC31 | 1 | | 25 |
| 7 | Open Course 6 | OC32 | 1 | | 25 |
| | * Practicals | | | | |
| 8 | Practical | IT31L | 5 | 50 | 75 |
| 9 | Mini Project | ITC31 | 5 | 50 | 75 |
| Terror Street | Soft Skills | | | | |
| 10 | Soft Skills- III | SS31 | 1 | | 25 |
| | | | 28 | 350 | 350 |

| Sr. No. | Course Title | Course Code | СР | EXT | INT |
|---------|--------------|-------------|----|-----|-----|
| 1 | DevOps | IT41 | 3 | 50 | 25 |
| 2 | PPM and OB | BM41 | 3 | 50 | 25 |
| 2 | Project | ITC41 | 22 | 250 | 300 |
| | | | 28 | 350 | 350 |

| Semester | Credit | IE | UE |
|--------------|--------|------|------|
| Semester I | 28 | 350 | 350 |
| Semester II | 28 | 350 | 350 |
| Semester III | 28 | 350 | 350 |
| Semester IV | 28 | 350 | 350 |
| Total | 112 | 1400 | 1400 |
| | | | 2800 |



Dr. Priyanka Singh Director Dr.D.Y.Pattinsbutz Strangement & Entrepreneur Development Suizie Talegaph Pune-410507(1)

