

Savitribai Phule Pune University, Pune

Faculty of Commerce and Management

Master of Computer Applications (MCA)

Programme Curriculum (Sem. III & IV)
(2020-2022)

Semester III

Course Code: IT-31

Course Name: Mobile Application Development

Credit Scheme			Evaluation Scheme				
Lecture	Practical	Credit	Internal			External	Total
			Written	Practical	Tutorial		
3 Hrs./Week	-	3	25	-	-	50	75

Course Description:

Course Objectives:

1. To understand the different mobile application Architectures.
2. To understand different types of widgets like buttons, views, layout etc.
3. To know the ways of application handling like intents, adapters, Notifications, Web Services and Web View.
4. To learn and know about data storing, retrieval and sharing in android.
5. To explore cross platform mobile application development framework, React Native and Flutter.

Course Outcomes:

Student will be able to

- CO1: Understand Various Mobile Application Architectures. (Understand)
- CO2: Apply different types of widgets and Layouts. (Apply)
- CO3: Describe Web Services and Web Views in mobile applications. (Understand)
- CO4: Implement data storing and retrieval methods in android. (Apply)
- CO5: Demonstrate Hybrid Mobile App Framework. (Apply)

Course Structure:

Course Code: ITC31

Course Name: Mini Project

Credit Scheme			Evaluation Scheme				
Lecture	Practical	Credit	Internal			External	Total
			Written	Practical	Tutorial		
-	10 Hrs./Week	5	-	75	-	50	125

Course Description:

A mini project is an assignment that the student needs to complete at the end of every semester to strengthen the understanding of fundamentals through effective application of the subjects learnt.

Course Outcomes:

Student will be able to

CO1: Create working project using tools and techniques learnt in this semester
(Create)

Course Structure:

Guidelines for Mini Project

1. Students are expected to undertake one mini project starting from first semester till third semester.
2. The student may take up the mini project in first semester based on the courses learnt in that semester and for every next semester the mini project may be based on the courses learnt in the current semester along with all the subjects learnt in earlier semesters.
3. The student may take up the project individually or in group. However, if project is done in group, each student must be given a responsibility for distinct modules.
4. Selected project/module must have relevant scope as per the marks assigned and must be carried out in the Institute.
5. Internal guide should monitor and evaluate the progress of the project on individual basis through handwritten workbook (Project Diary) maintained by students containing various project milestones with learnings and remarks from internal guide for concurrent evaluation.
6. The Project Synopsis should contain an Introduction to Project clearly stating the project scope in detail justifying enough scope for 125 marks. The project work will carry 75 marks for internal assessment and 50 marks for external assessment.
7. Students are expected to show working demo of the project during final evaluation.
- 8. Students are expected to upload mini-project on GITHUB as project repository of the institution.**
9. Students are expected to submit the soft copy of mini project report as a part of final submission.
10. The project will be assessed internally as well as externally by the examiners appointed by University. University may appoint Industry Experts as an external examiner

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)
2. 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.
5. 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:

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).

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.
- 2) 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

2. 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

For Internal Evaluation and External Evaluation

Semester I					
Sr. No.	Course Title	Course Code	CP	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					
8	Practical	IT11L	5	50	75
9	Mini Project	ITC11	5	50	75
Soft Skills					
10	Soft Skills - I	SS11	1		25
			28	350	350

Semester II					
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
			28	350	350

Semester III					
Sr. No.	Course Title	Course Code	CP	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
Soft Skills					
10	Soft Skills- III	SS31	1		25
			28	350	350

Semester IV					
Sr. No.	Course Title	Course Code	CP	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

13. Practical based on Divide and Conquer Technique-Binary Search, Tower of Hanoi
14. Implementation of Dynamic Programming- LCS, Regular Expression Matching
15. Practical based on backtracking- N Queen's problems

Course Code: ITC11
Course Name: Mini Project

Credit Scheme			Evaluation Scheme				
Lecture	Practical	Credit	Internal			External	Total
			Written	Practical	Tutorial		
-	10 Hrs./Week	5	-	75	-	50	125

Course Description:

A mini project is an assignment that the student needs to complete at the end of every semester to strengthen the understanding of fundamentals through effective application of the subjects learnt.

Course Outcomes:

Student will be able to

CO1: Create working project using tools and techniques learnt in this semester (Create)

Course Structure:

Guidelines for Mini Project

1. Students are expected to undertake one mini project starting from first semester till third semester.
2. The student may take up the mini project in first semester based on the courses learnt in that semester and for every next semester the mini project may be based on the courses learnt in the current semester along with all the subjects learnt in earlier semesters.
3. The student may take up the project individually or in group. However, if project is done in group, each student must be given a responsibility for distinct modules.
4. Selected project/module must have relevant scope as per the marks assigned and must be carried out in the Institute.
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8. **Students are expected to upload mini-project on GITHUB as project repository of the institution.**
9. Students are expected to submit the soft copy of mini project report as a part of final submission.

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
- There must be something performable (thus demonstrable or assessable) to perform
- 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:

- Disciplinary knowledge and skills
- Generic skills
- 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

¹ Graduation refers to passing out of the MBA programme. Graduation does NOT refer to 10+2+3/4 degree e.g. BA, BE, etc.

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):

1. **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.*
2. **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.*
3. **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.*
4. **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.*

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

GA10: Professionalism, Ethical, Values Oriented & Socially Responsible behaviour

GA11: Life-Long Learning Orientation

4.0 MBA Programme Course Types & Evaluation Pattern:

Sr.No.	Course Type	Credits	Nature	Formative Assessment (FA) Marks	Summative Evaluation (SE) Marks	Total Marks
BASIC COURSE TYPES						
1	Generic Core (GC)	3	Compulsory	50	50	100
2	Subject Core (SC)	3	Compulsory (Specialization specific)	50	50	100
3	Generic Elective (GE - UL)	2	Elective	0	50	50
4	Generic Elective (GE - IL)	2	Elective	50	0	50
5	Subject Elective (SE - IL)	2	Elective (Specialization specific)	50	0	50
6	Summer Internship Project (SIP)	6	Project (Compulsory)	50	50	100
ADDITIONAL COURSE TYPES						

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 Subject Core / Subject Elective Pattern		

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:
- Very Specialized or advanced course focusing on a specific aspect
 - Supportive to the discipline of study
 - Providing an extended scope
 - Enabling an exposure to some other discipline/domain
 - 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 equivalent; following the four quadrant approach and made available on the SWAYAM platform of Government of India.

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 Marks	SE Marks
COMPULSORY CORE COURSES (GENERIC (GC) + SUBJECT (SC) + Summer Internship Project SIP)												
A	1	GC - 1	1	GC - 7	1	GC - 11	1	GC - 14	66 Credits	1050	1050	
	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				
	4	GC - 4	4	GC - 10	4	SC - 3	4	SC - 6				
	5	GC - 5	5	SC - 1	5	SC - 4						
	6	GC - 6	6	SC - 2								
GENERIC ELECTIVE COURSES (UNIVERSITY LEVEL) – GE - UL												
B	7	GE UL - 1	7	GE UL - 4	6	GE UL – 7	5	GE UL - 10	22 Credits	0	550	
	8	GE UL - 2	8	GE UL - 5	7	GE UL – 8	6	GE UL - 11				
	9	GE UL - 3	9	GE UL - 6	8	GE UL – 9						
GENERIC / SUBJECT ELECTIVE COURSES (INSTITUTE LEVEL) - GE – IL / SE - IL												
C	10	GE IL - 1	10	GE IL - 4	9	SE IL -3	7	SE IL -6	22 Credits	550	0	
	11	GE IL - 2	11	SE IL -1	10	SE IL -4	8	SE IL -7				
	12	GE IL - 3	12	SE IL -2	11	SE IL -5						
										110	1600	1600
										43	Credits	FA SE
FOUNDATION COURSES (OPTIONAL)												
D	FOUNDATION 1		FOUNDATION 7						0 to 10 Credits			
	FOUNDATION 2		FOUNDATION 8									
	FOUNDATION 3		FOUNDATION 9									
	FOUNDATION 4		FOUNDATION 10									
	FOUNDATION 5											
	FOUNDATION 6											
ENRICHMENT COURSES (OPTIONAL)												
E	ENRICHMENT 1		ENRICHMENT 7		ENRICHMENT 11		ENRICHMENT 13		0 to 14 Credits			
	ENRICHMENT 2		ENRICHMENT 8		ENRICHMENT 12		ENRICHMENT 14					
	ENRICHMENT 3		ENRICHMENT 9									
	ENRICHMENT 4		ENRICHMENT 10									
	ENRICHMENT 5											
	ENRICHMENT 6											
ALTERNATIVE STUDY CREDIT COURSES (OPTIONAL)												
F	ASCC 1		ASCC 4		ASCC 7		ASCC 10		0 to 22 Credits			
	ASCC 2		ASCC 5		ASCC 8		ASCC 11					
	ASCC 3		ASCC 6		ASCC 9							

Note:

1. The basic programme structure comprises of Block A, B & C above.
2. 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-mission-focus areas, industry demand, student learning capabilities, faculty competencies, availability of learning resources, etc. PSOs shall be appropriately defined by the institute.

LEGEND:

#	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	B	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:

1. Institutes may offer ONLY SELECT specializations based on industry needs, faculty strength & competencies, student demands, employability potential, etc.
2. Institutes MAY NOT offer a specialization if a **minimum of 20% of students** are not registered for that specialization.
3. 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):

1. 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.
4. 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:

1. 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)
 - b) Minor Specialization – Credits: Total 10 (6 Credits from Subject Core + Minimum 4 Credits from Subject Electives)
3. 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.
4. 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.

[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.

FMB2224067	NATH KHUSHI KAILAS
FMB2224068	NIRANJAN SHIVAJI BINAGE
FMB2224069	NIRMAL SOPAN KISHANRAO

Financial Management (FIN)	khushinath77@gmail.com	8668749995
Financial Management (FIN)	niranjanbinage143@gmail.com	7397917508
Financial Management (FIN)	sopannirmal1477@gmail.com	7083825249

Roll Number	Student Name	Faculty Name	Specialization	Email address	Contact
FMB2224071	PATEL ROSHAN RAVINDRA	Prof Deepak Shirke	Marketing Management (MKT)	roshanpatel28@gmail.com	8554006441
FMB2224072	PATEL AJAY TUKARAM		Marketing Management (MKT)	ajaypatilap828@gmail.com	9096526362
FMB2224074	PAWAR AVISHA VIJAY		Marketing Management (MKT)	avishapawar123@gmail.com	9370423500
FMB2224080	RASKAR SAWALI SUJIT		Marketing Management (MKT)	sauraskar2323@gmail.com	8432892323
FMB2224084	SANJEVANI BABASAHEB B		Marketing Management (MKT)	sanjeevanibhandwale@gmail.com	9850226931
FMB2224086	SAURABH JADHAV		Marketing Management (MKT)	saurabhjadhav15220@gmail.com	9503271609
FMB2224089	SHINDE KAMAL PRAVIN		Marketing Management (MKT)	kamalshinde30842@gmail.com	9011767198
ZMB2224101	SAWANT VEDANT KAILAS		Financial Management (FIN)	avedant007@gmail.com	7249456252
ZMB2224102	SHAH JINAL KIRTIKUMAR		Financial Management (FIN)	Sjinal731@GMAIL.COM	8788264440
ZMB2224105	SHINDE ACHAL RENUKADAS		Financial Management (FIN)	aachalshinde689@gmail.com	9823772325
ZMB2224108	SHRIPAD MAHESH SHINDE		Financial Management (FIN)	shripadshinde9256@gmail.com	8956139256
ZMB2224111	SNEHA NANDKUMAR SHINDE		Financial Management (FIN)	snehans3003@gmail.com	7887671389
ZMB2224112	SONAWANE KSHITIJA ANANT		Financial Management (FIN)	kshitijasonawane8948@gmail.com	7420988948
ZMB2224116	TEJAS PRADIP KASLIWAL		Financial Management (FIN)	tejaskasliwal99@gmail.com	7083041660
ZMB2224117	TEJASVI SUBHASH BOBADE		Financial Management (FIN)	tejasvibobade833@gmail.com	8799976220

Roll Number	Student Name	Faculty Name SK	Specialization	Email address	Contact
FMB1211012	GORHE PRASHANT TANAJI	Prof Sayli Wankhade	Marketing Management (MKT)	pgorhe8668@gmail.com	7767877060
FMB1211014	HULE MANASI MACHHINDRANATH		Marketing Management (MKT)	manasi123mh@gmail.com	7821078363
FMB1211016	INGOLE AJAY RANGNATH		Marketing Management (MKT)	ajayingole783@gmail.com	9764043474
FMB1211017	JHA ASHWINI KUMAR		Marketing Management (MKT)	ashwin2732@gmail.com	7050198780
FMB1211018	JOGDAND WALMIK UDDHAV		Marketing Management (MKT)	walmikujogdand01@gmail.com	9561238301
FMB1211023	KHANDRE BALKRUSHANA PRAMOD		Marketing Management (MKT)	mansikhandre2000@gmail.com	7038204941
FMB1211025	KURKUT ISHWAR ARUN		Marketing Management (MKT)	kurkutishwar@gmail.com	8669208719
FMB1211028	MAHAJAN KUNAL DIPAK		Marketing Management (MKT)	mahajankun123@gmail.com	7507788003
FMB1211030	MAVALE OMKAR ANIL		Marketing Management (MKT)	omkarmavale@hotmail.com	7058890100
FMB1211034	OMBASE ABHIJEET SURESH		Marketing Management (MKT)	abhi@ombasgroup.com	7559164370
FMB1211037	PAWAR SANKET CHANDRAKANT		Marketing Management (MKT)	aishwaryanpawar2205@gmail.com	8329826160
FMB1211039	RANPISE PRANOTI PRAVIN		Marketing Management (MKT)		7719974434
FMB1211042	SHIRAVLE PRATIKSHA SANTOSH		Marketing Management (MKT)	pratikshashiravle27185@gmail.com	9930048205
FMB1211013	HAMBIRRAV PRIYANKA SHSHIKANT		Business Analytics (BA)	hambirravpriyanka@gmail.com	8796815393
FMB1211015	INGALE SHUBHAM MADHUKAR		Business Analytics (BA)	shubhaminge890@gmail.com	8308190732
FMB1211040	SANAP NIKITA VITTHAL		Business Analytics (BA)	nikitasanap4007@gmail.com	9579874984
FMB1211053	DAMALE MOHIL MILIND		Business Analytics (BA)	mohildamale143@gmail.com	7875305994
FMB1211055	KAPADE PRAVIN SANTOSH	Business Analytics (BA)	pravinkapade00@gmail.com	9518790367	

Roll Number	Student Name	Faculty Name	Specialization	Email address	Contact
ZMB2224002	ABHISHEK BABAN DHEBE		Financial Management (FIN)	abhidhebe2001@gmail.com	9422338024
ZMB2224005	BAHIRAT SHUBHAM BALASAHEB		Financial Management (FIN)	shubhambahirat.123@gmail.com	7972458280

ZMR2224006	RAJPAI KHUSHI SANJAY
ZMR2224007	BARKADE AKSHAY JAJINDAR
ZMR2224008	BHAGAT OMAR HANIMANT
ZMR2224009	BHAWARI SHYAM HARIMANU
ZMR2224011	BHISAJI SWAPNLI RAJHUNATH
ZMR2224015	DEVAJEE SHRAVANI SHYAMKANT
ZMR2224020	FURUSIJE AGH TUSHI VINOD
ZMR2224022	GANE SUDHANSHU RANDE
ZMR2224027	Gagan Pratikha Nagar
ZMR2224028	GURDEW TWAR VAISHNAVI PRAKASH
ZMR2224029	GURDEWAIKAR GANESH VENKATRAO
ZMR2224030	HARSHAL DHEEP DESAI
ZMR2224039	KAKALM ANSHWARYA RAJENDRA
ZMR2224044	KARWANJE RUSHIKESH RAMESH
ZMR2224048	KOLAMBKAR JYOTSNA MADHUSUDAN
ZMR2224051	KULKARNI SHANTANU SANTOSH
ZMR2224052	SHREYA DNYANESHWAR LADEKAR

Prof Shwetal Jadhav

Financial Management (FIN)	khushibajpa61@gmail.com	9075783223
Financial Management (FIN)	akshaybarkade567@gmail.com	9021692104
Financial Management (FIN)	omkarb023@gmail.com	9370596089
Financial Management (FIN)	shirambhokare9@gmail.com	9834814114
Financial Management (FIN)	143erb2001@gmail.com	9309193001
Financial Management (FIN)	denleshkravani@gmail.com	7888105090
Financial Management (FIN)	ashutoshfurusie04@gmail.com	8888403600
Financial Management (FIN)	ganeshlande188175@gmail.com	8378918292
Financial Management (FIN)	prajaktagavani79@gmail.com	9168424239
Financial Management (FIN)	guddetwarvaishnani12@gmail.com	9657929195
Financial Management (FIN)	ggurdhalkar@gmail.com	9730464686
Financial Management (FIN)	desai1996@gmail.com	8623069381
Financial Management (FIN)	aishwaryakakade121@gmail.com	7875423591
Financial Management (FIN)	rushikeshkarwanje3@gmail.com	7378478578
Financial Management (FIN)	ryotsnakolambkar750@gmail.com	9022149278
Financial Management (FIN)	kulkarnishantanu621@gmail.com	8087570069
Financial Management (FIN)	lshreya45@gmail.com	7539192665

Roll Number	Student Name	Faculty Name	Specialization	Email address	Contact
ZMR2224118	THAWARE SIDDHI SHRINIWAS	Prof Vikrant Nagare	Financial Management (FIN)	siddhithaware@gmail.com	7058734896
ZMR2224119	UNAWANE ABHISHEK SUHAS		Financial Management (FIN)	unawaneabhishek1307@gmail.com	9762582523
ZMR2224125	VYAVAHARE MAHADEV BABURAO		Financial Management (FIN)	mahaduvyavahare01@gmail.com	8788774740
ZMR2224064	NARGADE PAYAL DINESH		Financial Management (FIN)	payalnargade86@gmail.com	7972980565
ZMR2224090	ROHIT GAJENDRA ZOPE		Marketing Management (MKT)	rohitzope@gmail.com	9370635875
ZMR2224073	PATIL PRATHAMESH MAHADEV		Financial Management (FIN)	patilprathmesh59497@gmail.com	7378706199
ZMR2224032	HUCHCHE SHRAVANI SANTOSH		Financial Management (FIN)	shravanhuchche519@gmail.com	8010058712
ZMR2224093	SHIVLAD SOUNDARYA PRAKASH		Marketing Management (MKT)	soundaryashivlad@gmail.com	8806357426
ZMR2224096	SONAWANE SAYALI SUHAS		Marketing Management (MKT)	sayalisonawane4444@gmail.com	9359315231
ZMR2224100	TAMBE VARSHA MARUTI		Marketing Management (MKT)	varshatambe09@gmail.com	7764984178
ZMR2224102	THORAT ASHISH BHAGWAN		Marketing Management (MKT)	ashishthorat2916@gmail.com	8805892193
ZMR2224110	VIPUL SANJAY BADAVERE		Marketing Management (MKT)	vipul.badave@gmail.com	9420765495
ZMR2224112	YADAV KAJAL EKNATH		Marketing Management (MKT)	kajalyadav818283@gmail.com	7620291439
ZMR2224113	YADAV NIKITA POPAT		Marketing Management (MKT)	ynikita814@gmail.com	8308448061
ZMR2224114	YADAV PRACHI SANDIP		Marketing Management (MKT)	prachiyadav09082001@gmail.com	9960185211
ZMR2224019	DESHMUKH VISHAL KISHOR		Business Analytics (BA)	vkdeshmukh0808@gmail.com	9767931530

Roll Number	Student Name	Faculty Name	Specialization	Email address	Contact
HMB2224002	AMBAT LOKESH GOVIND		Financial Management (FIN)	lokeshambat251999@gmail.com	7972278706
HMB2224004	AMIT SANTOSH WAKDE		Financial Management (FIN)	amitwakdesw1999@gmail.com	7057957181
HMB2224006	ANKITA RAJESH SUMANT		Financial Management (FIN)	ankitasumant14@gmail.com	7066163628
HMB2224007	ANURADHA HANUMANT TELANGI		Financial Management (FIN)	TELANGIANURADHA3599@GMAIL.COM	8983003599
HMB2224009	ASHWIN SANJAYPANT GANORKAR		Financial Management (FIN)	ashwinganorkar@rediffmail.com	7030440691
HMB2224011	BANDIWARADAR DEEPAK DURGAPPA		Financial Management (FIN)	deepak1997.db@gmail.com	7620976064
HMB2224012	BHOSEKAR ABHISHEK PRASHANT		Financial Management (FIN)	abhishekhosekar134@gmail.com	7620145108
HMB2224013	BHOSEKAR SWAPNIL RAJENDRA		Financial Management (FIN)	swapnilbhoskar1008@gmail.com	7020216720

HMB2224015
HMB2224018
HMB2224020
HMB2224024
HMB2224025

BOBADE M
CHAVAN
DESI

HMB2224011
HMB2224012
HMB2224013

HMB2224015	BORBANE MADHURA SOMNATH
HMB2224018	CHAVAN RISHABH NITIN
HMB2224020	DESHPANDE JAYDIP RAHUL
HMB2224022	DHAVALE SOMNATH BALU
HMB2224024	DORPHODE DHIRAJ UTTAM
HMB2224025	DUSANE SOMNATH SATISH
HMB2224026	FADNIS MAYUR AKNATH
HMB2224027	GAIKWAD ANIKET RAJABHAU
HMB2224028	GAWAI SIDDHARTH MANOJ
HMB2224030	GUPTA NEHA ANIL
HMB2224031	HINGSE VAISHNAVI DIGAMBAR

Prof. Shriram Ugale

Financial Management (FIN)	madhurabobade707@gmail.com	9322319799
Financial Management (FIN)	rishabhchavan126@gmail.com	8956585301
Financial Management (FIN)	jaydeepdeshpande18@gmail.com	9511606697
Financial Management (FIN)	somnathdhavale12@gmail.com	9623781842
Financial Management (FIN)	dhirajdorphode769@gmail.com	8625073008
Financial Management (FIN)	someshdusane6408@gmail.com	7507655102
Financial Management (FIN)	FADNISMAYUR414@GMAIL.COM	7058405050
Financial Management (FIN)	aniketgaikwad71863@gmail.com	9325306443
Financial Management (FIN)	sidgawai2020@gmail.com	9766726755
Financial Management (FIN)	nehagupta4925@gmail.com	8530860122
Financial Management (FIN)	vaishnavi.hingse17@gmail.com	9607560604

Roll Number	Student Name
HMB2224033	INAMDAR KRUPESH HANAMANT
HMB2224038	JAGTAP ANURAG SURESH
HMB2224039	JAMDADE PRANAV SANJAY
HMB2224043	KALE SHUBHAM SUKHDEV
HMB2224044	KAMBLE ROHIT RAJU
HMB2224045	KAMBLE TEJASHRI MAHADEV
HMB2224046	KAMBLE VIPUL VIJAY
HMB2224048	KARANDE SHREENIVAS GANESH
HMB2224051	KHADKE SAIKUMAR RAJESH
HMB2224055	KORADE SHUBHAM DATTATRAYA
HMB2224056	KULKARNI SAMRUDDHI C
HMB2224057	LASHKARI TASMIYA ZAKIRHUSEN
HMB2224059	LOTEKAR ABHISHEK BHARAT
HMB2224060	MALI SAGAR JAYAWANT
HMB2224062	MOHOKAR SUSHANT SANJAY
ZMB2224099	SAMARTHA DHANANJAY JOGALEKAR
ZMB2224100	SATELKAR DEVENDRA NAMDEV
HMB2224076	PAWAR SHARVARI ANIRUDDHA
HMB2224077	POMAN SANKET VIKAS

Prof Bharti Gaikwad

Faculty Name	Specialization	Email address	Contact
Prof Bharti Gaikwad	Financial Management (FIN)	krupeshinamdar2001@gmail.com	7558393395
	Financial Management (FIN)	anuragjagtap143@gmail.com	7385882726
	Financial Management (FIN)	PRANAVJAMDADE027@GMAIL.COM	9284605055
	Financial Management (FIN)	shubhamkale16102001@gmail.com	7028057148
	Financial Management (FIN)	rohit27kamble2001@gmail.com	9822157940
	Financial Management (FIN)	tejashree9405@gmail.com	9405169040
	Financial Management (FIN)	vipulkamble79@gmail.com	7057233709
	Financial Management (FIN)	shrivaskarande09@gmail.com	7796184927
	Financial Management (FIN)	saikhadke7820@gmail.com	7385383286
	Financial Management (FIN)	shubhamkorde21@gmail.com	8237970963
	Financial Management (FIN)	samruddhikulkarni52@gmail.com	7620586029
	Financial Management (FIN)	tasmiyalashkari111@icloud.com	7248968899
	Financial Management (FIN)	abhisheldotekar997@gmail.com	8380053391
	Financial Management (FIN)	MALISAGAR7666@GMAIL.COM	8698098578
	Financial Management (FIN)	sushantmohokar9009@gmail.com	9168708089
	Financial Management (FIN)	samarthajogalekar27@gmail.com	7498995858
	Financial Management (FIN)	devendrasatelkar9151@gmail.com	9423254034
	Financial Management (FIN)	sharvaripawar010@gmail.com	8956661896
Financial Management (FIN)	sanketpoman08@gmail.com	9579423861	

Roll Number	Student Name
HMB2224079	RANE YASH SANJIV
HMB2224081	RAUT RUCHIKA VASUDEV
HMB2224082	RUSHIKESH BALASO RASKAR
HMB2224083	SALVE SANGHPAL SATISH
HMB2224085	SANKET BANDU BINAGE
HMB2224087	SHETE MAYURESH MOHAN
HMB2224088	SHINDE ANKITA ANIL
HMB2224090	SHINDE OMKAR ANIL
HMB2224092	SHIVANI RAKESH MISHRA
HMB2224094	SHWETA DILIP VELUKAR
HMB2224095	SOMASE BALIKA SOPAN

Prof. Sayli Wankhede

Faculty Name	Specialization	Email address	Contact
Prof. Sayli Wankhede	Financial Management (FIN)	yash06656@gmail.com	8766798794
	Financial Management (FIN)	rautruchika2@gmail.com	9307072714
	Financial Management (FIN)	rushiraskar1683@gmail.com	7841801683
	Financial Management (FIN)	sanghpalsalve358@gmail.com	7719975857
	Financial Management (FIN)	sanketbinage1435@gmail.com	9850102315
	Financial Management (FIN)	mayureshshete7777@gmail.com	7218444789
	Financial Management (FIN)	ankitashinde200079@gmail.com	7387765586
	Financial Management (FIN)	omkarshinde2772002@gmail.com	9689628892
	Financial Management (FIN)	shivanirakeshmishra123@gmail.com	9527956129
	Financial Management (FIN)	shwetavelukar@gmail.com	9370805913
	Financial Management (FIN)	balikasomase@gmail.com	9637758607

HMB2224097	SONTAKKE VAISHNAVI BHUTALSIDHI
HMB2224099	SWARAJ RAMESH VITHALKAR
HMB2224103	TUMDAM SHRAVANI VITHALRAO
HMB2224105	UPADHEYE TEJAS BALASAHEB
HMB2224107	VAIBHAV NAMDEO DOLAS
HMB2224108	VETHEKAR PRAJWAL HARICHNADRA

Financial Management (FIN)	sontakkev1411@gmail.com	9209162340
Financial Management (FIN)	swarajvithalkar@gmail.com	8856045120
Financial Management (FIN)	tumramshravani7@gmail.com	9766759107
Financial Management (FIN)	upadhyetejas75@gmail.com	9766636282
Financial Management (FIN)	vaibhav772084@gmail.com	7720846191
Financial Management (FIN)	prajwalvethekar1301@gmail.com	8080117310

Roll Number	Student Name	Faculty Name Mauree	Specialization	Email address	Contact
FMB1211002	BAMBAL RUTIKA DILIPRAO	Prof. <u>Shwetal Tadhar</u>	Financial Management (FIN)	bambalrutika@gmail.com	8767935617
FMB1211003	BAPURE SHRAVANI NAGNATHI		Financial Management (FIN)	bapureshravani12@gmail.com	8421242093
FMB1211010	GHONGADE RATNAMALA B		Financial Management (FIN)	ratnamalaghongade9657@gmail.com	9657327812
FMB1211011	GOLE SNEHA VIJAY		Financial Management (FIN)	snehagole80@gmail.com	9920878230
FMB1211020	KARANDE BHAGYASHRI MANOHAR		Financial Management (FIN)	rucha9648@gmail.com	9307942765
FMB1211021	KARKANDE PRANITA BALASAHEB		Financial Management (FIN)	pranitakarkande7@gmail.com	9322615465
FMB1211022	KATE ASHOK PANDURANG		Financial Management (FIN)	ashokkate08@gmail.com	7559107231
FMB1211024	KORE VAISHALI VIJAY		Financial Management (FIN)	vaishalikore362@gmail.com	8208129054
FMB1211026	KUTAL SANKET RAMCHANDRA		Financial Management (FIN)	kutalsanket9921@gmail.com	9921559403
FMB1211027	LOHAR VIVEK KESILAV		Financial Management (FIN)	viveklohar36552@gmail.com	9112890627
FMB1211029	MALAJI PRASHANT GANESH		Financial Management (FIN)	prashantmalaji1@gmail.com	7507548448
FMB1211031	NEVASE RUTUJA RAJENDRA		Financial Management (FIN)	rutujanevase26@gmail.com	8380963449
FMB1211033	NIWATE SAYALI YOGESH		Financial Management (FIN)	sayaliniwate17@gmail.com	7972455844
FMB1211035	PARALE TANAYA SUNIL		Financial Management (FIN)	paraletanaya@gmail.com	9730775537
FMB1211038	PRADHAN NIKITA SANJAY		Financial Management (FIN)	nikitapradhan797273@gmail.com	7709589527
FMB1211041	SATHE ANIRUDHA RAJENDRAKUMAR		Financial Management (FIN)	sathe.aniruddha.2000@gmail.com	9049453924
FMB1211044	SONTAKKE SHUBHAM PANDURANG		Financial Management (FIN)	sontakkev1411@gmail.com	9209162340
FMB1211045	SURWADE PAVAN BHIMRAO		Financial Management (FIN)	pavanbhimraosurwade2@gmail.com	7083272246

Roll Number	Student Name	Faculty Name	Specialization	Email address	Contact
ZMB2224003	ADSUL PRASAD DNYANESHWAR	Prof Gayatri Patil	Human Resources Management (HRM)	prasadadsul1111@gmail.com	9665979645
ZMB2224014	DESHMUKH DIVYA RAVINDRA		Human Resources Management (HRM)	divyadeshmukh1699@gmail.com	8669852044
ZMB2224016	DHANASHREE RAHUL KHUNTE		Human Resources Management (HRM)	djchrist55@gmail.com	8329179513
ZMB2224017	DHOBLE VAISHALI RAJU		Human Resources Management (HRM)	palashmoon2002@gmail.com	8830745694
ZMB2224021	GAIKWAD VANITA BIHARAT		Human Resources Management (HRM)	vanitagaikwad2001@gmail.com	7218073913
ZMB2224037	Jadhav Swati Vilas		Human Resources Management (HRM)	swatijad7887@gmail.com	9860461367
ZMB2224038	JAYSHREE GUNDERAO HANMANTE		Human Resources Management (HRM)	jaishreehanmante0@gmail.com	8888926227
ZMB2224040	SUPRIYA ASHOK KALE		Human Resources Management (HRM)	supriyakale1314@gmail.com	9922336563
ZMB2224046	KHANDRE MANSI VILAS		Human Resources Management (HRM)	mansikhandre2000@gmail.com	7038204941
ZMB2224055	MAGAR NAYAN SHARAD		Human Resources Management (HRM)	nayanmagar21@gmail.com	7756820088
ZMB2224060	MOTE SAYALI SURESH		Human Resources Management (HRM)	sayalimote648@gmail.com	9503801586
ZMB2224063	NALAGE DIKSHA SURESH		Human Resources Management (HRM)	nalagediksha14900@gmail.com	8329453629
ZMB2224074	PATIL PRAJAKTA JAYPAL		Human Resources Management (HRM)	parajakta6325@gmail.com	9359382744
ZMB2224096	SAHOO LOPAMUDRA BISWORANJAN		Human Resources Management (HRM)	sahoolopamudra10629@gmail.com	9404117085
ZMB2224106	SHIRSAT NEHA SUNIL		Human Resources Management (HRM)	nehashirsat1999@gmail.com	7499030511
ZMB2224109	SIDDHI BHALCHANDRA YADAV		Human Resources Management (HRM)	yadavsiddhi3010@gmail.com	9067036236

Roll Number
HMB2224016
HMB2224021
222

Stud
VANJARI

Z/MB/22/4100
Z/MB/22/4100
Z/MB/22/4100

224121	VANJARI MRUNALI ASHOK	Human Resources Management (HRM)	vanjaremrunali@gmail.com	9763137898
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Roll Number	Student Name	Faculty Name	Specialization	Email address	Contact
HMBR2224016	CHAHAJI ALI ANSAPASALKAR	Prof Sachin Wadekar	Human Resources Management (HRM)	chahralipasalkar7@gmail.com	7620541970
HMBR2224021	DHANYAL KOMAL ARJUN		Human Resources Management (HRM)	dhanyalkomal9958@gmail.com	9209073238
HMBR2224023	DHIRAJ CHAUDHARI CHAUDHARI		Human Resources Management (HRM)	dhirajchudhari2000@gmail.com	7775022290
HMBR2224036	JADHAV KAVIRISATISH		Human Resources Management (HRM)	jadhavgaveri73@gmail.com	8767943906
HMBR2224109	VIHAR KASHINRAJ DHALE		Human Resources Management (HRM)	dhalevihar@gmail.com	9168763580
HMBR2224066	NAIK SHUBHAM SNIHI		Human Resources Management (HRM)	shubhamnaik9139938367@gmail.com	9139938367
HMBR2224101	TEJAS NANDESHWAR SONAWANE		Human Resources Management (HRM)	tejassonawane850@gmail.com	7066935361
Z/MBR2224066	NIRANTALE ANIKET HARICHANDRA		Human Resources Management (HRM)	aniketnirantale@gmail.com	7038099630
Z/MBR2224067	OMKAR DIPAK TAWARI		Financial Management (FIN)	taware943@gmail.com	9763215242
Z/MBR2224068	PATIL JIWAR SHANKAR SHRIVAN		Financial Management (FIN)	SHANKAR.PADGELWAR@GMAIL.COM	9665625531
Z/MBR2224070	PATIL KAR AISHWARYA DATTATRYA		Financial Management (FIN)	aishwaryapatekar11@gmail.com	9325489956
Z/MBR2224073	PATIL CHITANVARACHAND		Financial Management (FIN)	ctpatil1999@gmail.com	8459010213
Z/MBR2224075	PATIL VAISHNAVI SAMBHAJI		Financial Management (FIN)	vaishnavipatil136@gmail.com	7249191697
Z/MBR2224076	PATIL YOGESHWARI SURESH		Financial Management (FIN)	patilyogeshwari357@gmail.com	8381000604
Z/MBR2224077	PAWAR AISHWARYA NANASAHEB		Financial Management (FIN)	aishwaryanpawar2205@gmail.com	8329826160
Z/MBR2224078	PAWAR OMKAR PRAKASH		Financial Management (FIN)	op8806443809@gmail.com	8806443809
Z/MBR2224079	PAWAR SANDEEP KHANDU		Financial Management (FIN)	sandeepawar2215@gmail.com	7972178343
HMBR2224115	YADAV RUCHA GANESH		Financial Management (FIN)	ruchayadav095@gmail.com	7448164111
HMBR2224116	YELMAME SANDIP BHUSAHEB		Financial Management (FIN)	sandipyelmane15@gmail.com	7796891218
Z/MBR2224098	PRATIKSH PRADIP SALUNKHE		Financial Management (FIN)	pratikshsalunkhe78@gmail.com	7498700913

Roll Number	Student Name	Faculty Name	Specialization	Email address	Contact
FMB1211008	FALKE PRAJAKTA SUNIL	Prof Sarika Ghorpade	Human Resources Management (HRM)	prajaktaphalake0@gmail.com	9960896907
FMB1211019	KADAM OMKAR BABURAO		Human Resources Management (HRM)	obk0304@gmail.com	9022971868
FMB1211032	NIGHT MONIKA MARUTI		Human Resources Management (HRM)	monikanight555@gmail.com	7028973598
FMB1211036	PATIL LINA DNYANESHWAR		Human Resources Management (HRM)	linapatil18922@gmail.com	7666752292
FMB1211047	THOKE VAISHNAVI ANIL		Human Resources Management (HRM)	vaishnavithoke792@gmail.com	8788064241
FMB1211063	GUNJAL RUTUJA BABASAHEB		Human Resources Management (HRM)	gunjalrutuja573@gmail.com	8830868781
FMB1211065	JANGAM PRATIKSHA MAHESH		Human Resources Management (HRM)	bhagyashreejangam007@gmail.com	7875726925
FMB1211051	AHIR ADITYA SANJAY		Financial Management (FIN)	aditya.ahir.001@gmail.com	7218220541
FMB1211052	BHALERAO SUPRITA		Financial Management (FIN)	supritabhlerao9163@gmail.com	8308089592
FMB1211057	KUBAL HINAL RAVINDRANATH		Financial Management (FIN)	hinalkubal01@gmail.com	7875340634
FMB1211062	GAIKWAD ANURDHA RAMESH		Financial Management (FIN)	anuradha.gaikwad9325@gmail.com	9325622564
FMB1211064	HODAGE KRANTI PANDIT		Financial Management (FIN)	krantihodage2001@gmail.com	8263086386
FMB1211060	CHAVAN DARSHAN DNYANESHWAR		Marketing Management (MKT)	darshanchavan012@gmail.com	9146594099
FMB1211061	DIGVIJAY KUMAR		Marketing Management (MKT)	pandeydigvijay65@gmail.com	9657094927
FMB1211066	JHA JAY KRISHNA		Marketing Management (MKT)	jaykrjha1993@gmail.com	9006129402
FMB1211067	KATORE DIPAK BAPU		Marketing Management (MKT)	dipakkatore810@gmail.com	8080584106
FMB1211049	ADHAU DARSHAN ASHOK		Financial Management (FIN)	darshanadha2000@gmail.com	9604900878
FMB1211050	ADSUL VISHWAJIT DATTATRAY		Financial Management (FIN)	vishwajitadsul7020@gmail.com	9049433435

MEMORANDUM OF UNDERSTANDING ("MOU")

**BETWEEN
CONFEDERATION OF INDIAN INDUSTRY
AND**

Zeal College of Engineering & Research, Pune

Agreed and executed on **22nd August 2022**

Confederation Of Indian Industry ("CII"), a society registered under the Societies Registration Act, 1860, a not for profit and industry managed organization and having its Central Office at The Mantosh Sondhi Centre 23, Institutional Area, Lodi Road, New Delhi -110 003, India (hereinafter referred to as "CII"), represented by its authorized signatory **Mr. Bharat Oswal (Yi Chapter YUVA Chair for Pune)**, which expression shall unless repugnant to the context and meaning thereof include its successors, administrators and permitted assignees).

And

Zeal College of Engineering, Pune represented by its authorized signatory **Dr. Ajit Kate**, which expression shall unless repugnant to the context and meaning thereof include its successors, administrators and permitted assignees).

Hereinafter individually referred to as CII or **Zeal College of Engineering & Research, Pune** as it may be, and collectively referred to as the Parties

WHEREAS:

CII is a non-government, non-profit, industry led and industry managed organization, which works to create and an environment conducive to the growth of industries in India through advisory and consultative process CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities through a range of specialized services and strategic global linkages. Young Indians (Yi) is an initiative and integral part of the CII formed with an objective of creating a platform for Young Indian's to realize the dream of a developed nation. It has over 4000 direct members in 57 city chapters, and an indirect membership of 29500 through its Yuva. "To become the Voice of Young Indians Globally" being the vision of Yi, it reaches out to the global Indians wherever they are to make them an integral part of the Indian Growth Story. The Yi Yuva platform is one of the most active focus areas within Young Indians by which Yi members engage students from across the country in various initiatives that the students conceptualize, plan and execute. The objective is to create a bridge, a platform for the students to work in cross functional teams with a broad objective of enhancing their leadership skills and giving back to the nation. In the process, the students work in leadership roles while operationalizing projects that are based on self-development, skill building, community service and nation building.

WHEREAS:

Zeal College of Engineering and Research, Pune Studies & Research is located in educational capital of India, Pune, the main objective of this college is to provide quality education to its students & enhance their skills The institute always seeks to help the students to become an effective leader by providing them.



NOW THEREFORE, BOTH THE PARTIES HEREBY AGREE AS UNDER

ARTICLE I: Purpose and Objectives

Both the Parties, by way of this MOU express their commitment to collaborate with each other to:

- i) The role of the institution would be to enroll **all students** at the beginning of the year and increase the same substantially through the years.
- ii) Yi and Education Partner shall motivate and provide opportunities to the students to engage in activities and initiatives that they conceptualize, create reports regularly on their activities to the Yi Executive Member and participate in the Yi National & Chapter events in other cities like the summit (finer details to be worked in coherence with the institution's policies)
- iii) Both the Parties are desirous of promoting mutual cooperation and wish to expand the basis for friendly and cooperative educational and academic collaborations by way of this MOU.
- iv) Both the Parties understand and acknowledge that this MOU is a pre-requisite for further collaboration and cooperation activities, academic partnerships etc.
- v) Any other activities considered by both Parties to be potentially beneficial.

ARTICLE II: Financials

Unless otherwise specifically agreed to in writing by the Parties, each Party will bear on their own the respective costs of carrying out the obligations under this MOU. Each party is responsible for its own taxes and compliances in respect to the deliverables envisaged herein and shall not hold the other party responsible for such taxes and compliances. This is merely a broad understanding between the parties in furtherance to the common intention for accomplishing the objectives mentioned herein above. In future, if the parties intend to enter into any financial arrangement, the legal rights and commercial obligations of the parties as applicable shall be delineated through separate documents on case to case basis. Taxes if any will be charged extra and withholding tax if any will be deducted by respective party on any financial transaction as per applicable laws.

ARTICLE III: Coordination Between Facilitators

Both the Parties shall nominate one or more senior representative/officer, who shall be the point of contact/facilitator for the purposes of this MOU. The facilitators of both the Parties shall maintain regular contact with the other Party as well as propose and review different academic projects, programs and other activities in furtherance of objectives of the purpose and objectives envisioned under this MOU. The Facilitators may also be required to report to and coordinate with different committees or boards for the purposes of this MOU, as may be necessary.

ARTICLE IV: Intellectual Property Rights

Both the Parties shall:

- I. Share with each other all data, research and findings relating to activities, projects undertaken under this MOU.
- i) Enjoy joint ownership of all intellectual property rights in terms of copyrights, patents, trademarks for any discoveries, inventions researches and any outcomes resulting from joint activities undertaken under this MOU.



ARTICLE V: Confidentiality

For the purposes of this MOU:

- i) either of the Parties who provides any sensitive or commercial information shall be referred to as '**Disclosing Party**' and
- ii) either of the Parties, receiving such information shall be referred to as '**Recipient Party**'.

The Recipient Party shall use the confidential information of the provided by the Disclosing Party solely in accordance with the provisions of this MOU and will not disclose or permit to be disclosed, the same, directly or indirectly, to any third party without the Disclosing Party's prior written consent.

The Recipient Party shall exercise all care and caution in protecting the confidential information provided by the Disclosing Party, from any unauthorized use and disclosure. However, neither party bears any responsibility for safeguarding information which:

- i) is publicly available,
- ii) obtained by the other party from third parties without restrictions on disclosure,
- iii) independently developed by the other party without reference to confidential information, or
- iv) required to be disclosed by order of a court or other law enforcement entity, provided written notice of such compelled disclosure before court or law enforcement entity is intimated to the Disclosing Party.

ARTICLE VI: Indemnity

I²IT agrees to indemnify and hold harmless CII, its officers, employees and agents from all claims, liabilities and losses to the extent based on gross negligent acts or gross negligent omissions of I²IT its officers, employees, and agents in the performance of this Agreement.

ARTICLE VII: Force Majeure

If performance of this MoU or any obligation under this MoU is prevented, restricted, or interfered with by causes beyond either party's reasonable control ("Force Majeure"), and if the party unable to carry out its obligations gives the other party prompt written notice of such event, then the obligation of the party invoking this provision shall be suspended to the extent necessary by such event. The term Force Majeure shall include without limitation, acts of God, fire, explosion, vandalism, storm or other similar occurrences, orders or acts of military or civil authority, or by national emergencies, insurrections, riots, or wars, or strikes, lock-outs, work stoppages or a pandemic. The excused party shall use reasonable efforts under the circumstances to avoid or remove such causes of non-performance and shall proceed to perform with reasonable dispatch whenever such causes are removed or ceased. An act or omission shall be deemed with the reasonable control of a party if committed, omitted, or caused by such party, or its employees, officers, agents, or affiliates.

ARTICLE VIII: Governing Law, Jurisdiction & Arbitration

- I. This MOU shall be construed, interpreted and enforced in accordance with Laws of India.
- II. In case of any differences, both the parties, shall make all efforts to settle the disputes amicably through mutual discussion and negotiation, failing which, dispute(s) shall be referred to a sole Arbitrator appointed by both the Parties, as per provisions of Arbitration and



Conciliation Act, 1996 including amendments. Language of Arbitration shall be English and place of Arbitration shall be New Delhi, India.

- iii) Subject to the Arbitration Clause, the Courts competent jurisdiction at Delhi shall have exclusive jurisdiction in respect of any and all matters pertaining to this MOU.

ARTICLE IX: Miscellaneous

- i) This MOU can only be amended in writing by mutual consent of both the Parties.
- ii) This MOU shall come in effect from the date of affixing signature by both the Parties and shall remain valid for a period of Three (03) year from that date, subject to any written notice by one party to the other party, expressing its intent to terminate this MOU.
- iii) Either of the Parties, may terminate this MOU by way of 2 (two) months advance notice. In such an event, both the Parties, shall make all endeavours to fulfil their obligations and responsibilities for any ongoing program(s), project(s) or any endeavour(s) which has been initiated under this MOU.
- iv) This MOU may be executed in counterparts including but not limited to MOUs, communications exchanged defining responsibilities, obligations of both the Parties for different programmes, initiatives etc. under this MOU, each of which shall be deemed to be an original, and all of which, taken together, shall constitute an integral part of this MOU.
- v) If any provision of this MOU shall be invalid, illegal or otherwise unenforceable, the validity, legality and enforceability of the remaining provisions shall in no way be affected or impaired thereby.
- vi) The captions of the clauses of this MOU are for convenience of reference only and in no way define, limit or affect the scope or substance of any clause of this MOU.

IN WITNESS WHEREOF the parties hereto have executed this MOU, in duplicate, by their duly authorized representatives on the date, month and year first written above.



Chapter Yuva Chair



(Institute)

Principal
ZES's Zeal College of
Engineering & Research
Narhe, Pune - 411 041.



Yi (Executive Member)



MEMORANDUM OF UNDERSTANDING

This **MOU** is made and entered at Mumbai on this Monday, 1st August 2022, by and between:

RPG FOUNDATION a Public Charitable Trust registered under the Bombay Public Trusts Act, 1950 having its registered office at 463, RPG House, Dr. A. B. Road, Worli, Mumbai 40030, (hereinafter referred to as "**RPGF**") which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its successor-in-interest, executors, administrators and assigns) of the **FIRST PART**.

AND

ZES's ZEAL COLLEGE OF ENGINEERING & RESEARCH, an entity incorporated/registered under the provisions of the **Maharashtra University Act 1994/B1**, having its registered office at **Sr. No.39,Katraj Dhayari Road, Narhe, Pune**. (hereinafter referred to as "**ZCOER**" which expression shall mean and include unless repugnant to the context or meaning thereof, its successors and permitted assigns) of the **SECOND PART**.

In this MOU, **RPGF** and **ZES's ZEAL COLLEGE OF ENGINEERING & RESEARCH** are collectively referred to as the "**Parties**", and individually as a "**Party**".

1. PREAMBLE

WHEREAS **RPGF** has been set up to undertake activities in the field of social welfare and reform, across wide range of areas including education, employability, health including eye health, community development etc.

WHEREAS **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** is a leading educational institute affiliated to and approved by **AICTE, India**, offering courses in Engineering/Graduation.

WHEREAS **RPGF** as a part of its Corporate Social Responsibilities (CSR) activities desires to collaborate with **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** for promoting special education and employment enhancing skills (hereinafter referred to as "Programme") among students undergoing graduation courses in engineering or any other discipline so as to attain them a level as expected by IT industry for perform the job on joining the company.

WHEREAS **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** has shown readiness to collaborate with **RPGF** for promoting the Programme and to provide all required infrastructure and its faculties as well for running and conduct of the Programme.

RPGF has identified **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** to carry out the activities under Project **Employability Skill Development Program** which is one of the Corporate Social Responsibilities Initiatives undertaken by **RPGF**.

ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH has represented to **RPGF** that it has necessary skill, licenses, approvals, experience, expertise, infrastructure and skillful personnel



for carrying out activities under Project **Employability Skill Development Program** and is willing to assist RPGF in skillful manner within the agreed timeline.

Based on the representation by **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH**, RPGF has agreed to assign few of the activities of Project **Employability Skill Development Program** Initiative as detailed out in Annexure 1 of this MOU, hereinafter referred to as the ("**CSR Activities**") **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** has agreed to independently undertake and complete the CSR Activities subject to and upon the terms and conditions contemplated herein.

NOW THEREFORE IN CONSIDERATION OF THE FOREGOING AND THE MUTUAL COVENANTS AND PROMISES CONTAINED HEREIN AND OTHER GOOD AND VALUABLE CONSIDERATION THE RECEIPT AND ADEQUACY OF WHICH IS HEREBY ACKNOWLEDGED, THE PARTIES INTENDING TO BE BOUND LEGALLY AND AGREE AS FOLLOWS:

1. It is agreed between the parties that **RPGF** and **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** shall work together on non-exclusive basis for the Programme mentioned hereof.
2. **Role and responsibilities of each party will be as under:**

2.1 Role and Responsibilities of **RPGF**:

- a) To decide criteria for selection of the students for undergoing the Programme in consultation with **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH**
- b) To decide the strength of students in one batch (batch size) of the Programme.
- c) To inform duration of the Programme with start and end date to **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH**
- d) To providing courseware to the students.
- e) To arrange faculties to impart Technical as well as soft skill training to the students.
- f) To train the students so as to give them exposure on core software skills and thereby improve their basic concepts through real-time case studies and assignments in technologies viz Java, .NET, SQL, Testing, IM, Agile, Cloud, Mobility etc. OR any other specific technology/methodology as per the latest industry trends, such as DevOps, IoT, Cloud Computing, Robotics Process Automation, Design Thinking, etc.
- g) To impart training to the students through mix of virtual, eLearning and physical classroom setup as per the program design.
- h) To conduct periodic evaluations at various phases of the program as decided by RPGF and providing feedback to the participating student of **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH**
- i) To issue certificates to each participating student on successful completion of the Programme.
- j) To provide a Single Point of Contact for mentoring and conducting the Programme.
- k) To arrange few training programs for faculty members as a part of capacity building of colleges.
- l) To enhance the overall program periodically, to ensure maximum impact of the program.



2.2 Role and Responsibilities of ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH:

- a) To Allow students and nominate few faculty members of ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH and other colleges as agreed with RPGF to conduct the Programme for selected students.
- b) To organize trainings/events/competition as suggested by RPGF for successful conduct of the Programme.
- c) To render all required support to RPGF in section of the students to undergo the Programme.
- d) To arrange and provide infrastructural facilities as enumerated in Annexure "A".
- e) To make sure that all selected students are attending the program.
- f) To form ESD Committee at college level as recommended by RPGF, to coordinate the overall support required from college at college level. This committee will consist of faculty members and students undergoing the overall program.
- g) To conduct periodic check points after the completion of trainings, at college level.
- h) To extend support to RPGF with data inputs on a periodic basis, for reporting and documentation purpose.

3. This program is intended to give students the opportunity to work in an industry-like environment under the guidance of experts during their final year of the academic tenure. No placements, internships or project support are promised by RPGF under the said program other than the pre-agreed training for the students under the Programme. RPGF makes no commitment to offer employment to the participating students in the Programme or any placement help or to provide any additional support by way of trainings, project guidance or mentoring that the students may need to meet the Academic requirements apart from the agreed Training program

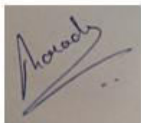
4. OBLIGATIONS OF RPGF

- a) RPGF shall be free to carry out periodical inspection of Project Implementation to ensure if CSR Activities are being completed as per Annexure 1 and ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH shall extend necessary support to RPGF for inspection of the Project implementation.
- b) RPGF shall be involved in all the matters related to CSR Activates except for documentation procedures connected therewith. Suggestion given by RPGF for the improvement of the Project implementation shall be given due weightage by ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH. RPGF will be responsible for value addition in the design and execution of the CSR Activities. This is with a view to sustain and ensure the spirit and state of excellence on an ongoing basis.

5. EFFECTIVE DATE AND DURATION OF THE MOU:

This MOU shall come into force from the date mentioned above and shall be valid till **31 July 2027**. Unless terminated earlier in the manner provided in this MOU.

Parties herein expressly agree that in the event, the Parties fail to renew / extend the MOU



for whatsoever reasons, the MOU shall be deemed have been terminated due to efflux of time.

6. NON-EXCLUSIVITY

This MOU shall be nonexclusive for RPGF i.e. RPGF shall be free to engage any no of Service provider for similar purpose or CSR Activities.

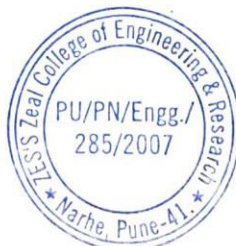
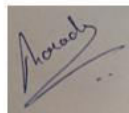
7. CONFLICT OF INTEREST

ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH shall not, without the prior written consent of RPGF, directly or indirectly, solicit or entertain offers from any third party, negotiate with or in any manner encourage, discuss or accept any proposal of any other person or entity, or pursue any CSR Activities assigned to them which shall be in direct conflict with the CSR Activities under this MOU during the subsistence of this MOU. However, ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH can associate with other Field level organizations, identified by RPGF for the successful implementation of the project.

8. CONFIDENTIALITY

8.1 Each Party, and its officers, directors, employees, representatives, and agents shall hold in confidence all Confidential Information (as defined below) obtained from or received from the other Party in strict confidence and shall not disclose, disseminate, publish or otherwise provide, either orally or in writing, to any third party without a prior written consent of the other Party.

8.2 "Confidential Information": Both Parties agree to regard and preserve as confidential all Confidential Information provided by each to the other or which may be disclosed, received or granted access to by either Party or come to the knowledge of either Party in any manner in connection with the negotiations for the possible business relationship. Confidential Information shall also include all information and data relating to the purpose; which is obtained whether in writing, pictorially, in machine readable form, on disc, mail or orally (unless reduced into writing within 7 days of oral disclosure) in connection with the discussions (including but without limitation, financial information, know-how, processes, ideas, (whether patentable or not), schematics, trade secrets, technology, customer lists (potential or actual) and other customer-related information, supplier information, sales statistics, market intelligence, marketing, business working, operations, parent, subsidiaries, affiliates and other business strategies and other commercial information of a confidential nature and other technical financial and business information concerning a Party, or any such information of clients, customers, parents, affiliates, subsidiaries or agents of a Party, which is disclosed by such Party (the "Disclosing Party"), whether directly in oral or material form to the other Party (the "Receiving Party"). Further, Confidential Information of the Disclosing Party shall also include the analyses, business plans, compilations, data, studies or other documents prepared by the Receiving Party based on the information disclosed or derived therefrom. It shall not be necessary for the



Disclosing Party to mark the information as "confidential" at the time of disclosing the same. The non-marking of the same shall not mean that the information ceases to be Confidential Information.

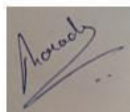
8.3 In maintaining the confidentiality of Confidential Information hereunder both Parties agree that they shall not, without first obtaining the written consent of the other, disclose or make available to any person (including all natural and legal persons (whether incorporated or not)), firm or enterprise, reproduce or transmit, or use (directly or indirectly) for its own benefit or the benefit of others, any Confidential Information save and except both Parties may disclose any Confidential Information to its Directors, officers, employees or advisors on a "need to know" basis to enable them to evaluate such "Confidential Information" in connection with the MOU.

8.4 Both Parties shall ensure that the said employee(s) and /or the said person(s) shall maintain confidentiality with regard to the disclosed Confidential Information, if any being disclosed to them, and shall issue suitable instructions and/or get suitable written undertakings or MOU executed to bind its employees and / or the said person(s) to the same obligations of confidence and safeguarding as the Parties hereto and to adhere to the confidentiality / non-disclosure terms contained in this MOU. Provided that the execution of such a MOU shall not absolve the responsibility of the Receiving Party to confidentiality and in the event of any breach by the employees of their obligations of confidentiality, it shall always be construed to be a breach of the obligations of the Receiving Party under this MOU.

8.5 Save and except for the purposes mentioned in clause (a) above both Parties further agree that neither Party will part with/disclose any "Confidential Information" received by it to any other person directly or indirectly and such written material /documents will be retained under strict confidentiality by the receiving Party nor make copy(s) or reproduce in any way (including without limitation store in any computer or electronic system any written material/documents) such Confidential Information. Both Parties further agree that the Confidential Information which may pertain to or touch upon any regulatory aspects and /or dealings of either Party with any statutory /government/ related agencies / bodies, whether the said information is received verbally or in writing, will not be disclosed in any manner, either directly or indirectly, to any other persons. Both Parties further agree to use the same degree of care that it uses to protect its own Confidential Information of a like nature from unauthorized disclosure, but in no event less than a reasonable degree of care.

8.6 It is mutually acknowledged and agreed that information shall not be considered "Confidential Information" and the receiving Party shall have no confidentiality obligations under this MOU with regard to that information to the extent, that such information:

a) at the time of disclosure was in the public domain; or



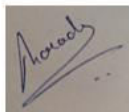
 **RPG**
FOUNDATION



- b) is already known to the Receiving Party free of any confidentiality obligation at the time it is obtained from the Disclosing Party or a third Party on the Disclosing Party's behalf; or
- c) after disclosure is or becomes publicly known or available through no wrongful act of the Receiving Party; or
- d) rightfully received from a third party without restriction or
- e) is required to be disclosed pursuant to a requirement of a governmental agency or law so long as the Parties provide each other with timely prior written notice of such requirement; or
- f) the Disclosing Party has given its prior written approval to disclose; provided, however that any information consisting of a combination of non-confidential information and Confidential Information will only be considered by the Receiving Party as non-confidential information if the combination itself is in the public domain or the prior possession of the Receiving Party, or is received by the Receiving Party without obligation of confidence, is independently developed, or is approved for disclosure as described above; or
- g) Has been disclosed in written graphic or other tangible form unless clearly designated in writing as "confidential". Provided that the burden of proving the existence of any such exceptions shall always be on the Party claiming the same.

8.7 Both Parties further agree and undertake not to disclose the Confidential Information of the other to their agents or contractors without prior written approval from the other and without having first obtained from each agent or contractor a separate written agreement or undertaking binding them to the same obligations of confidence and safeguarding. Further in the event of a business relationship being agreed to, whether a contractor or agent can be appointed at all would be dependent on the terms and conditions governing the business relationship Both Parties further agree to indemnify and keep indemnified each other against all actual loss and damage which the Disclosing Party may suffer as a result of any breach of this MOU by the Receiving Party.

8.8 Both Parties further agree that upon termination/expiry of the MOU or at any time during its currency, at the request of the Disclosing Party, the Receiving Party shall promptly deliver to the Disclosing Party all copies of the Confidential Information in its possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Receiving Party or its Directors, officers, employees or advisors based on the Confidential Information, provided that the obligations of this Clause 4 shall always survive the completion/termination/expiry of this MOU. Notwithstanding the expiration or early termination of this MOU, the obligations of confidentiality set forth in this MOU will survive such expiration or earlier termination for a period of three (3) years, and will be binding on agents, successors and assigns of the other Party including its past and/or present employees to whom the Confidential Information was disclosed in terms of this MOU.



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9. INDEMNITY

- a) **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** hereby irrevocably and unconditionally agrees to indemnify and hold RPGF harmless from and against any action, proceedings, claims or demands, liabilities, losses, damages arising out of its day to day activities and/or any omission or commission or default of **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** or its employees, servants, agents against all costs, claims, actions, proceedings, judgments, settlements, expenses or the like, which RPGF may have to pay or incur or sustain or suffer as a result of such action, proceedings, claim or demand whatsoever.
- b) RPGF shall not be held responsible for any damages or injury caused to any person or persons or property, whether by fire, tempest, leakage, accidents, explosion, bursting of water or gas pipes or electrical installations or short circuit, medical procedures or otherwise during the implementation of said CSR initiative by **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH**, whatsoever in nature.

10. INTELLECTUAL PROPERTY

- 10.1 Any intellectual property rights owned by the Parties before the date of this MOU and during the term of this MOU will remain the property of that respective Party. Nothing contained in this MOU will affect the absolute ownership rights of any Party in such Party's intellectual property rights. For the avoidance of doubt, no licenses are granted under this MOU.
- 10.2 In the event that either Party wished to use name and/or logo of the other Party for any purposes, including without limitation for the objectives of this MOU or any other purposes, such Party shall obtain written consent of the other Party in advance of such use.
- 10.3 Each of the Parties shall not publish any marketing material relating to this MOU without the prior written consent of the other Party and undertake that the wording for any marketing materials shall be jointly agreed in writing between the Parties prior to its use.

11. ADVERTISEMENT

RPGF shall permit **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** to install suitable signage board of RPGF and **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH**. The designs and specifications of the same shall be mutually discussed and agreed by and between the Parties hereto, subject to **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** obtaining necessary approvals from the concerned authorities and any municipal levies or other charges in respect of such signage would be adjusted from the payment provided herein.

12. WARRANTIES



Each Party warrants and undertakes to the other Party that:

- a) It has the right to enter into this MOU and perform its Role and Responsibilities in this MOU.
- b) it shall comply with all applicable laws and regulations in the performance of its obligations in this MOU;
- c) it has all necessary rights, authorizations, or licenses to perform its obligations under this MOU;

13. TERM AND TERMINATION

This MOU comes into force from the day of signing by the last Party and shall be valid till July 2022. This MOU will terminate if either Party defaults in performance of its obligations and responsibilities stated herein above. Either Party may terminate this MOU by giving thirty (30) days prior written notice to the other Party.

14. LIMITATION OF LIABILITY

Neither Party shall be liable for any special, indirect, incidental, punitive, contingent nor consequential loss or damages suffered out of or in connection with the aforesaid MOU whether as a result of a breach of this MOU or otherwise and whether such liability arises from any claim based upon contract, warranty, tort, product liability or otherwise, and whether or not the Parties have been advised of the possibility of such loss or damage, except in case where such loss or damage has been the result of gross negligence, fraudulent and/or willful acts of the Parties.

15. DISPUTE RESOLUTION

15.1 Informal Dispute Resolution: The Parties recognize that a bona fide dispute as to certain matters may from time to time arise during the term of this MOU, which relates to either Party's rights or obligations hereunder. In the event of the occurrence of such dispute, either Party may, by written notice to the other Party, have such dispute referred jointly to the authorized officer of the Parties, or their successors or counterparts, for resolution by good faith negotiations within 30 days after such notice is received in respect of such dispute.

15.2 Arbitration: If the Parties are unable to reach agreement with respect to such referred dispute pursuant to Clause above, then such dispute shall be resolved as described in Clause below.

15.3 If any disputes, controversies or differences arise between the Parties hereto out of, or in relation to or in connection with this MOU, or for any breach thereof, the same shall be if possible settled amicably and promptly by mutual consent of the Parties. If such disputes, controversies or differences cannot be settled between the Parties, they shall be finally settled by arbitration in accordance with the arbitration laws and rules prevailing in India. The award rendered by the arbitrator(s) shall be final and binding upon all the Parties. Any



such arbitration proceeding shall be held in Pune. This MOU shall be subjected to the exclusive territorial jurisdiction of Pune courts.

16. TERMINATION

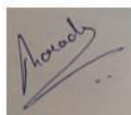
- a) Both parties hereto are free to terminate this MOU by giving a notice of not less than 30 days to the other Party and above termination notice so given shall be effective only after it is duly served upon by the other Party.
- b) In the event ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH fails and neglects to comply with the terms and conditions mentioned herein, the same would amount to a breach of this MOU and RPGF shall, immediately upon knowing the said breach, give one month's notice in writing to ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH demanding and calling upon them to comply with the terms and conditions strictly mentioned in this MOU. If, ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH in spite of the receipt of notice from RPGF, fails and neglects to comply with the terms and condition or is unable to satisfy RPGF, the said MOU shall be *ipso facto* treated as terminated upon the expiry of the above one-month notice.
- c) On termination or expiry of this MoU all unutilized amounts advanced by RPGF shall be immediately repaid and refunded by ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH in including any indemnity amount as contemplated under clause 10 herein above to RPGF, if any.
- d) The provisions of clauses mentioned in this MoU shall survive the termination or expiry of this MoU.

18. LIMITATION OF LIABILITY

Neither Party shall be liable for any special, indirect, incidental, punitive, contingent nor consequential loss or damages suffered out of or in connection with the aforesaid MOU whether as a result of a breach of this MOU or otherwise and whether such liability arises from any claim based upon contract, warranty, tort, product liability or otherwise, and whether or not the Parties have been advised of the possibility of such loss or damage, except in case where such loss or damage has been the result of gross negligence, fraudulent and/or willful acts of the Parties.

19. GENERAL

- 19.1 Third Party Right: No person who is not a party to this MOU shall have any right to enforce any terms of this MOU.
- 19.2 Notice: Notices and other communications required or permitted pursuant to this MOU, shall be in writing and shall be delivered personally, or by prepaid registers mail, or sent by email to the other Party, or by use of professional overnight courier service, at the addresses set forth above.



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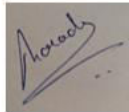


- 19.3 Amendment: This MOU contain the entire agreement and understanding between the Parties. No amendments or modifications to this MOU shall be effective unless made in writing and signed by authorized representatives of the Parties.
- 19.4 Severability: If any provision of this MOU (or any portion thereof) is determined to be invalid or unenforceable the remaining provisions of this MOU shall not be affected thereby and shall be binding upon the Parties and shall be enforceable as though said invalid or unenforceable provision (or portion thereof) were not contained in this MOU.
- 19.5 No Waiver: The failure by either Party to insist upon strict performance of any of the provisions contained in this MOU shall in no way constitute a waiver of its rights as set forth in this MOU, at law or in equity, or a waiver of any other provisions or subsequent default by the other Party in the performance of or compliance with any of the terms and conditions set forth in this MOU.
- 19.6 Assignment: This MOU shall be binding upon and inure to the benefit of the Parties hereto and their successors and assigns. The MOU shall not be assigned by either Party without the prior written consent of the other Party.
- 19.7 This MOU including the exhibits annexed hereto supersede all prior agreements, representations and understandings, written or oral, between the Parties and constitute the complete agreement and understanding between the Parties unless modified in writing, signed by both Parties.
- 19.8 The headings of this MOU are intended solely for convenience of reference and shall be given no effect in the interpretation or construction of this MOU.
- 19.9 This MOU is governed by Indian law. The Parties hereby submit to the exclusive jurisdiction of the Pune courts.

IN WITNESS WHEREOF, the Parties hereto, each acting under due and proper authority, have executed this MOU as of the date written above

FOR RPGF

SIGNATURE: -
NAME: -
Designation: -



 **RPGF**
FOUNDATION

FOR ZES'S ZEAL COLLEGE OF
ENGINEERING & RESEARCH

SIGNATURE: -
NAME: DR. AJIT KATE
Designation: - PRINCIPAL



PRINCIPAL
ZES's Zeal College of
Engineering & Research
Narhe, Pune - 411041.

ANNEXURE "A"

Infrastructure Requirements:

Guidelines for IT Employability Skills Development Centre having capacity of 30-35 seats

Physical Space: At the rate of 80 sqft per individual, the space required for 30 students would be 2400 sqft inclusive of common areas and faculty cubicles.

Connectivity/Bandwidth: Min. 2.0 Mbps dedicated bandwidth for all 30-35 users.

Hardware Specification: The computers must meet a minimum hardware specification, which is described below: **(50 M/c) with the given configuration, along with Webcam, Headphones and speakers.**

- CPU: Intel PIV or equivalent 2.8+ GHz
- Memory: 4 GB RAM
- HDD: 40 GB
- Network: 10/100 Mbps connected to the Internet
- Monitor: 15 inches
- Keyboard and Mouse

Each computer must be networked and connected to the Internet via a firewall or a proxy server.

In addition to the 50 M/c, one Server may be required (one with Windows Operating System or with Linux). The configuration is as follows:

- CPU: Intel PIV or equivalent 2.8+ GHz.
- Memory: 8 GB RAM
- HDD: 80 GB
- Network: 10/100 Mbps connected to The college backbone
- Monitor: 15 inches
- Keyboard and Mouse
- Backup Device (DVD ReWriter)

Software requirements: This model would support both Linux and Windows Operating Systems and would use web-based connectivity using the industry recognized Internet browsers. The basic software requirement is mentioned below:

- Windows 8 or above
- Windows Server 2010 or above
- .Net Development Environment
- J2EE Development Environment
- Office Productivity Suite (MS Office, Star Office, Open Office etc.)
- Antivirus (McAfee, Norton Antivirus etc.)
- Compression Utility (WinZip, Winrar etc.)



- Adobe Acrobat Reader 9.0 or above
- Browsers - Internet Explorer, FireFox, Chrome etc.)

UPS Specification: as appropriate for the H/W infrastructure.

Air Conditioner specification: as appropriate for the facility utilized.

Furniture & Fittings: Work stations with side cupboards, projection arrangement (screen + stand), white board, lighting etc.

Power and Back-up: as appropriate for lighting, air conditioning and UPS

Network Security: It would be in the common interest of **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** and **RPGF** to protect their computers and authors' work against unauthorized access.

To achieve at least minimum level of network security, **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** recommends the following components:

- Appliance based firewall (Cisco PIX etc.)
- Internet Proxy Server (Squid, Microsoft ISA Server)
- Antivirus

Other facilities required: Server Placements: The servers and network equipment to be placed in secured enclosure prevent unauthorized access.

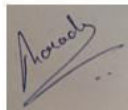
Proxy/ Firewall: A firewall must be placed between the internet and the **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** LAN to allow only legitimate traffic into the **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH**. An appliance based firewall is recommended but **ZES'S ZEAL COLLEGE OF ENGINEERING & RESEARCH** may also opt for software based firewalls, if the number of computers is less.

In case of a large number of users accessing the internet, a proxy server should be used to increase internet performance by caching and also putting in controls required to access the internet.

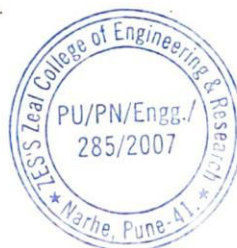
Printer: Institutions should install at least one printer per batch of 30 students. A network laser printer is most suitable for large networks.

Projector + Screen: A portable LCD projector may be required by the students to discuss and conduct presentations. It should preferably be placed in a discussion room.

Video Conference facility: College/Institute shall provide access to VC facility whenever required to students for planned VC sessions.



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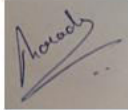


Maintenance & Support. An annual maintenance and upgrade contract should be signed with the software & hardware vendor to cater for maintenance requirements and upgrades.

FOR RPGF

FOR ZES'S ZEAL COLLEGE OF
ENGINEERING & RESEARCH

SIGNATURE: -



NAME: -

Designation: -



SIGNATURE: -



NAME: DR. AJIT KATE

Designation: - PRINCIPAL

PRINCIPAL
ZES's Zeal College of
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Narhe, Pune - 411041.

