



MES' Institute of Management and Career Courses (IMCC)

Participative Learning

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**Maharashtra Education Society's
Institute of Management and Career Courses (IMCC), Pune**

Flipped Classroom

Concept: A flipped classroom is an instructional strategy and a type of blended learning, which aims to increase student engagement and learning by having pupils complete readings at home and work on live problem-solving during class time.

Course Title : IT23: Essentials of Networking

Topic for Flipped Classroom: **IP Addressing**

Course material provided:

1. Network Addressing
 - Introduction to IP Addressing
 - Addressing at various layer
 - IP Addressing
2. Presentation on IP Addressing
 - IP Addressing Lecture by Shri. Shridhar Iyer
 - Layering Concepts

File Enclosure:

1. Screenshots of Moodle showing Flipped Classroom Assignment
2. Student logs on Moodle





MES' Institute of Management and Career Courses (IMCC)

Participative Learning

1. Flipped Classroom- Networking- Independent learning skills are developed through Flipped Classroom

Course Code: IT14: Network Technologies

Course IT14: Network Technologies

Extra Readings: Selecting Techniques: CSMA/CA, CSMA/CD, Carrier Sense Multiple Access

- Transport Problem
- Introduction and Basic Technologies
- Transmission Mode

Principle of Layering concept

- OSI Model
- Layered Nature of Networking
- Layers in Detail
- OSI Model

Mid Term Examination

- Mid Term Examination - 5 February 2022
- Total Time: 20 mins
- Total Questions: 20

Course IT14: Network Technologies

IP Addressing

- Network Addressing - Anupam's Adventure
- Introduction to IP Addressing
- Addressing at Various Layer
- IP Addressing
- Presentation on IP Addressing
- IP Addressing Lecture by Prof. Shikhar Agarwal
- Presentation on IP Addressing
- IP Addressing Lecture by Prof. Shikhar Agarwal
- Learning Material on TCP, UDP Connection, IPv6 and Routing
- Routing Protocols

Border Gateway Protocol

Routing Information Protocol

Open Shortest Path First





**Maharashtra Education Society's
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Tutorial

Courses with Case study based, problem solved methodology , subject teacher has conducted various tutorials. Example is given below:

IT13: Object Oriented Software Engineering

Topic: **Mini Project SRS**

Question:

Write SRS for your Mini Project with following changes

1. Write team members roll no name on first page
2. Mention clear scope in Project scope point and detailed in Product function point
3. In section 4 System feature - Draw Use case Diagram
4. Take a photo and convert images to PDF
5. Upload PDF only

Enclosure:

1. Scan copy of Student Submission of SRS



Tutorial submission:

Autvek Pardeshi

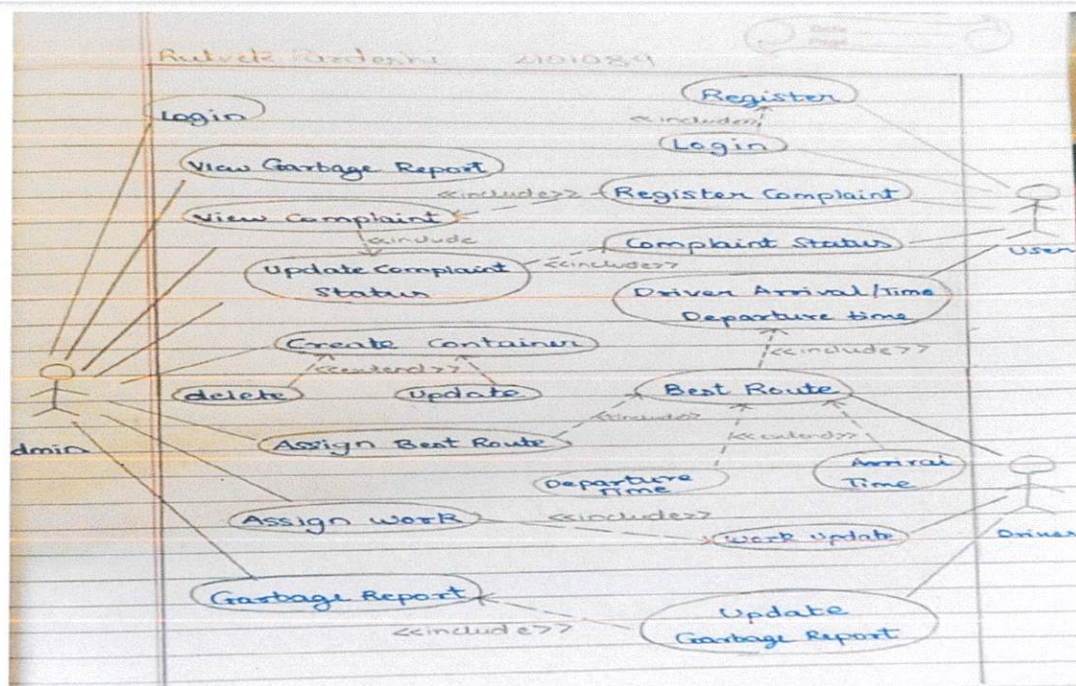
* Smart City Garbage Collection *

1. Introduction:

1.1 Purpose
The purpose of this document is to build an online location based garbage management System application for Smart City.

1.2 Document Conventions:
* FB - Firebase (Real-time Database)

1.3 Product Scope
This idea is perfect for Saving time & changes the regular way to dumping the trash thus this app provides a cost-effective way or web-based system for government to utilize available resource for government to utilize available resource the overall amounts



Link: https://drive.google.com/drive/folders/1kEJTKiXKjKu_-lh4--x6QkfU3kLGckhB



**Maharashtra Education Society's
Institute of Management and Career Courses (IMCC), Pune**

CSRG Participation

Course Title: CS11: Case Study on Requirement Gathering

Course Teacher: Dr. Jayashree S. Patil

MES' IMCC always promotes participative learning. In 2019 Pattern, a case study-based course (CS11 to CS51) was introduced in which a group of 4 students developed a project from Semester 1 to Semester 5 by following Software development life cycle.

The key areas highlighted during such courses are

Semester 1 – Requirement gathering

Semester 2 – Feasibility study

Semester 3 – Analysis and Design

Semester 4 – Development

Semester 5 – Testing and Implementation

Testing has to be done by tester so we assign peer groups for testing projects. Testing guidelines and test case template was already shared with students

Total number of groups participated – 32

Enclosure:

1. Testing project Allocation
2. Test plan document with Index





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3. Case Study Solving

Course: CS51: Case Study on Requirement Gathering

Group of 4 students developed a project from Semester 1 to Semester 5 by following the Software development life cycle. Total no of groups were 32.

Semester 1 – Requirement gathering

Semester 2 – Feasibility study

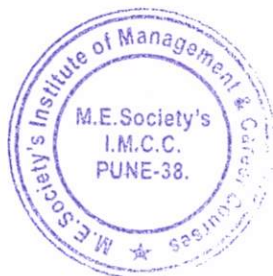
Semester 3 – Analysis and Design

Semester 4 – Development

Semester 5 – Testing and Implementation

Testing of projects was done by peer groups for testing project. Testing guidelines and test case template was shared with students

MES' Institute of Management and Career Courses (IMCC), Pune				
MCA Sem V CSIT Allocation sheet				
A.Y. 2021-22				
Testing Project allocation				
Advanced Campus Placement Drive System	1911007	Niranjana Bhamare	P1	P3
	1911029	Varun Kulkarni		
	1911049	Shubham Raut (TM)		
	1911052	Arif Shaikh (TM)		
Appointment Booking System	1911010	Pranay Dam	P2	P6
	1911031	Rohit Londhe		
Banking	1911035	Aakanksha Mehta	P3	P1
	1911036	Neha Mehta		
Banking & Financial Services App	1911021	Sangharsha Jadhav	P4	P8
	1911032	Atharva Mahabal		
	1911033	Jaymala Marathe		
	1911055	Sandhyarani Shinde		
Billing System for a Departmental Store	1911012	Preeti Y. Desai	P5	P7
	1911056	Juily M.Upkare		





**Maharashtra Education Society's
Institute of Management and Career Courses (IMCC), Pune**

AWS Quiz

Course Title : IT35 Cloud Computing

Course Teacher : Mrs. Dipti Belsare

To learn and understand recent trends about cloud computing concepts and to participate students in the recent market requirements we have tested their knowledge by conducting Quiz in Amazon Web Services (AWS).

Enclosure:

1. Quiz questions (PDF)
2. Result





MES' Institute of Management and Career Courses (IMCC)

1. Text should not contain any spelling & grammatical mistake.						
Project Details						
Project Name	Pawsome					
Document Name	Test Scenarios Document					
Doc. Created By_Dt	Chaitali Suryawanshi_Wed_22.09.2021					
Doc. Approved By_Dt						
Sr. No	Module Name	Submodule Name	Functionality	Scenario Description	Expected Result	Comments
1	Home	Look & Feel, Spell checks etc.	To check whether text should not have any grammatical & spelling mistakes	1. Check the text on whole page for grammatical & spelling mistakes. 2. Text alignment. 3. Check for use of formal conventions for font features.	1. Text should not contain any spelling & grammatical mistake. 2. Text should be aligned properly for all information boxes. 3. Formal conventions like visibilities font style, size, color (for normal text, for links should be used.)	We don't have formal requirement document so we consider formal conventions which we are following in day to day life.
2	Home	Login	To check login functionality.	1. Check if admin can be logged in with default credentials (if provided). 2. Check if student can be logged in with default credentials (if provided). 3. With invalid data - 3.1 Enter invalid username 3.2 Enter invalid password 3.3 Click on Login button	1. Application should be allowed to access further pages. 2. Application should be allowed to access further pages. 3. With invalid data - Application should prompt users for appropriate invalid field. 3.1 For invalid username - on login button click, all fields should be cleared & reset. Cursor should be blinking in username field. 3.2 Enter invalid password - on login button click, only password field	It is assumed that default credential should be present in database for user.

Link- <https://drive.google.com/drive/folders/18hpV7tg6RQ4-cMeGcaVbsZcZKr5o1KP7>

4. Quiz- conducted in course sessions

Course IT35- Cloud Computing

Topic- Fundamentals of cloud computing

#	Question	Question Type	Question Accuracy	Average Time per Question (mm:ss)	Correct	Incorrect	Unattempted	1911030_kira_rindwe (1911030_kira_rindwe)	Ankit sharma 1911053 (Ankit Sharma)	1912040_KunalS (Kunal S)	1912008_Shivani Bhojak (Shivani Bhojak)	KAUSHIK Puntambekar MCA 2 (kaushik_puntambekar)	
1	What is AWS?	Multiple Choice	66%	00:17	59	27	3	Amazon Web s	Amazon Web s	Amazon Web s	Amazon Web s	Amazon Web s	
2	What are the components of AWS?	Check Box	6%	00:51	6	80	3	Elastic Block St	Elastic Comput	Simple Storage	CloudCatch,El	CloudCatch,El	
3	What is S3?	Multiple Choice	87%	00:32	78	8	3	Simple Storage	Simple Storage	Simple Storage	Simple Storage	Simple Storage	
4	What are the pricing models for EC2 instances?	Check Box	11%	00:43	10	76	3	On-Demand ins	On-Demand ins	On-Demand ins	Dedicated Host	Dedicated Host	
5	How many buckets can be created in S3?	Multiple Choice	83%	00:25	74	12	3	100	100	100	100	100	
6	What is AMI?	Multiple Choice	56%	00:21	50	36	3	Amazon Machi	Amazon Machi	Amazon Machi	Amazon Machi	Amazon Machi	
7	AWS supports which types of policies	Check Box	25%	00:47	23	63	3	Access Control	Access Control	Access Control	Identity-based	Access Control	
8	What are different types of instances?	Check Box	10%	00:53	9	77	3	D3 instances	M M3 instances	M4 instances	T M3 instances	M3 instances	
9	What are different types of instances?	Check Box	4%	00:36	4	81	4	Compute Optim	Compute Optim	Compute Optim	Compute Optim	Compute Optim	
10	What does VPC stands?	Multiple Choice	86%	00:20	77	8	4	Virtual Private	Virtual Private	Virtual Private	Virtual Private	Virtual Private	
				43%	05:45	390	468	32	83 %	70 %	70 %	70 %	60 %

QUIZZ

[View Player Data](#)

[View Time Data](#)

[View Summary](#)

Link for more details

<https://drive.google.com/drive/u/0/folders/1wlInYcoIN0zHyfqIs1CIBPFdt5xf0RYh>





**Maharashtra Education Society's
Institute of Management and Career Courses (IMCC), Pune**

Event Participation

MES' IMCC organizes various Technical and Management Events for students to explore their skills by participating in the given events like:

1. **Bamboozled Quiz** on 8th February 2020
2. **CodeYoda** online coding competition on 17th Aug 2020.
3. **Exhibit IT Project Competition- 2020** on 8th February 2020
4. **Presentino** - 2020 on 8th February 2020
5. **Fund ka Funda** – Financial Planning for Start-ups
6. **Ad-Mania** – Advertising Competition
7. **HR Policy Design** – Policy for Work from home in pandemic

Enclosure:

1. Event reports

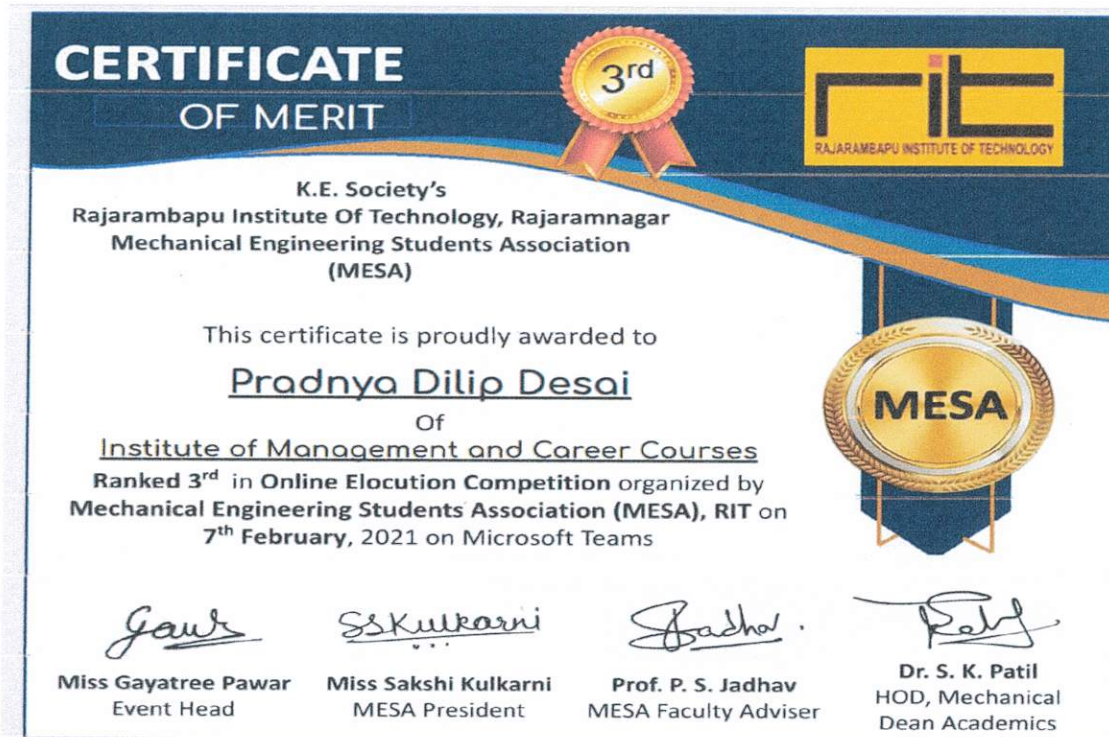




MES' Institute of Management and Career Courses (IMCC)

5. **Intercollegiate Competitions-** Students use their technical, management and leadership skills while participating in various competitions

Sample Certificates:



Link: https://drive.google.com/drive/u/0/folders/1nGa_MxGjPn6my4I1RGU7WLQhT_wQRRBT3





Maharashtra Education Society's
Institute of Management and Career Courses (IMCC), Pune.

Co-curricular Activities

A.Y.2020-21

Professional Activities

College faculty who mentors and encourage student involvement in professional activities can make a meaningful difference in the quality of the graduates. To enhance

CSI

About CSI

The Computer Society of India is the first and largest body of computer professionals in India. It was started on 6 March 1965 by a few computer professionals and has now grown to be the national body representing computer professionals. It has 72 chapters across India, 511 student branches, and 100,000 members

CSI student's chapter starts from 1st October 2019. CSI is an active national organization which consists of technically sound professionals and students. It periodically offers seminars, workshops and technical events on ongoing trends. More than 240 students from the department enrolled in the CSI Student Branch. This helps them to be at par with the current technology trends. Institute is planning to conduct Paper presentation competition, Software Project Competition, Quiz competition under CSI student chapter.

CodeYoda online coding competition



CodeYoda online coding competition organized by Mes' IMCC CSI Student Chapter, on 17 th Aug 2020 online has successfully completed and declared the winners. Before organising this event, a special guest lecture was conducted for students 1 month prior to the event, regarding 'Getting To Know HackerRank' by Mr. Aniruddha Gohad. Mr. Aniruddha Gohad who is a Co-Founder of Radon Technology, had given a tour guide of HackerRank in the guest lecture and solved student's queries, which helped students become hassle-free to attend CodeYoda using HackerRank as a platform on 17th Aug 2020. On the day of event, almost 91 students had took part with great enthusiasm, and out of 91 students, 3 students were declared as winners who are as follows:

- i. Kaustubh Kulkarni from MCA II stood first.
- ii. Nupur Bhawe from MCA II stood second.
- iii. Shubham More from MCA II stood third.

Code Yoda was organised under CSI Student Chapter of IMCC and received great response from students of IMCC.





MES' Institute of Management and Career Courses (IMCC)

6. CSI Activities-

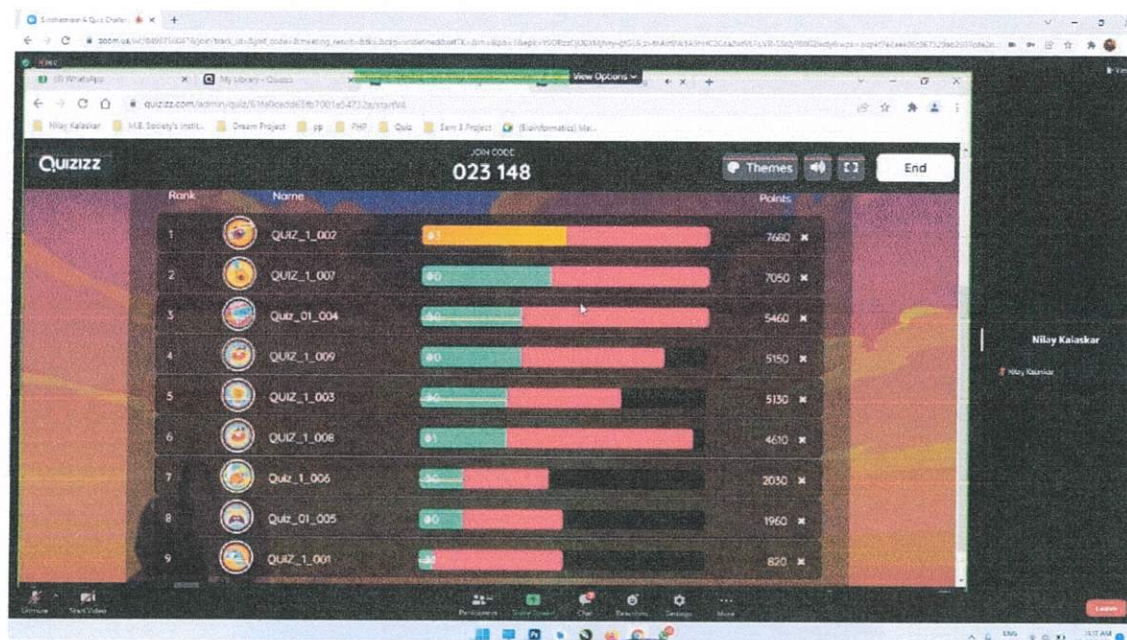
Siddhattvam (A Quiz Challenge)

Competition was conducted on the 5th of February 2022 @11.00 am in online mode.



Total 51 students from MCA were participated in the competition. The winners were **Kumari Arya (FYMCA)** and **Pranay Dam (SYMCA)**

Screenshot of quiz progress



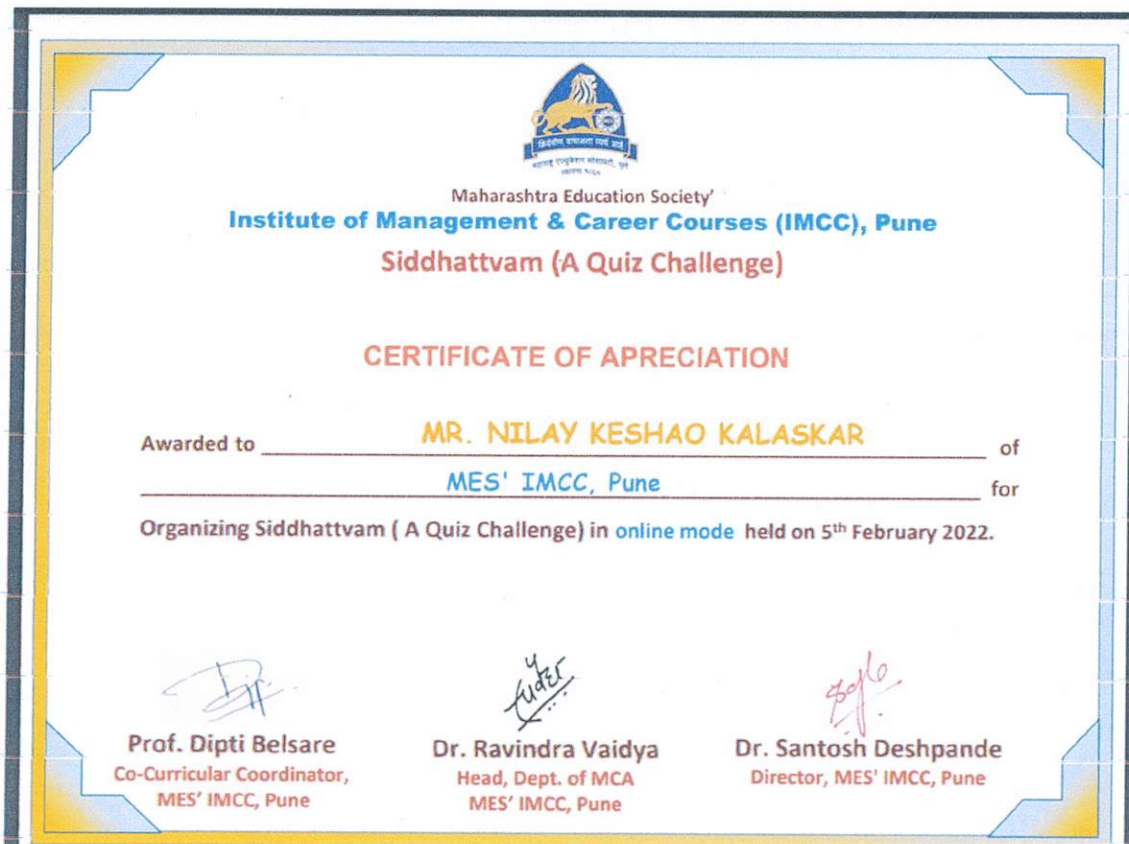


MES' Institute of Management and Career Courses (IMCC)

Screenshot of participants



Certificate



Link: https://drive.google.com/drive/folders/1Gyxu4BhgyEdL62c2jY81vs_eKnk-zn2





**Maharashtra Education Society's
Institute of Management and Career Courses (IMCC), Pune**

Research paper presented & published with students

Dr. Poonam Vatharkar along with two MBA students Ms. Madhuri Karade and Ms. Anusha Murhe has presented a research paper titled 'Mediating Role of Perceived Organizational Support on a Relationship between Job Burnout and Mental Well Being – A study of Private Hospital Nurses' in international conference IC2TMA conducted on 14th & 15th February, 2020 and the same paper has been published in Scopus index journal named *TEST Engineering & Management Journal*

Ref - Vatharkar P. Karade M & Murhe A (2020), Mediating Role of Perceived Organizational Support on a Relationship between Job Burnout and Mental Well Being – A study of Private Hospital Nurses, *TEST Engineering & Management Journal*, Vol- 83, ISSN: 0193-4120, pp. 10490 – 10500 (SCOPUS)

Dr. [Dipti Belsare](#) along with one MCA Student Ms. Nupur Bhawe has published a research paper titled "A STUDY ON FOOD RECOGNITION & NUTRITION ESTIMATION" in Journal of Analysis and Computation (JAC)

Enclosure:

1. Paper PDF International Journal of Future Generation Communication and Networking
2. Paper PDF Journal of Analysis and Computation (JAC)
3. Certificate of Publication





MES' Institute of Management and Career Courses (IMCC)

7. Publishing Research Papers¹⁾ Mrs. Dipti Belsare, Assistant Professor, MES'

Journal of Analysis and Computation (JAC)

(An International Peer Reviewed Journal) www.ijaonline.com, editor@ijaonline.com

CERTIFICATE OF APPRECIATION



Author- Nupur Bhave¹ and Dipti Belsare²

Affiliation- ¹ PG Student, ² Assistant Professor, MES'S Institute of Management and Career Courses Pune, India.

have submitted a paper title – A STUDY ON FOOD RECOGNITION & NUTRITION ESTIMATION.

The paper was peer reviewed and recommended it to publish in JAC ISSN 0973-2861, Vol XVI Issue IV, April 2022.

IMCCNupur Bhave, PG Student, MES' IMCC

Journal of Analysis and Computation (JAC)

(An International Peer Reviewed Journal), www.ijaonline.com, ISSN 0973-2861
Volume XVI, Issue IV, Jan-June 2022



A STUDY ON FOOD RECOGNITION & NUTRITION ESTIMATION

Nupur Bhave¹, Dipti Belsare²

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² Assistant Professor, MES'S Institute of Management and Career Courses Pune, India

ABSTRACT

Nowadays, maintaining a balanced diet and avoiding obesity in the human body requires a regular & standardized intake of healthy food. This study uses computer vision via the use of a mobile phone and techniques of image processing and pattern recognition to identify food items in the picture and shows their nutritional values for dietary assessment. The amount of calories that the food contains is taken into consideration here based on that nutritional values are shown. Food image recognition is a





MES' Institute of Management and Career Courses (IMCC)

2) Dr. Poonam Vatharkar, Assistant Professor, MBA along with two MBA students Ms. Madhuri Karade and Ms. Anusha Murhe has presented a research paper titled 'Mediating Role of Career Satisfaction on Relationship between Role Conflict and Work Life Balance' using PPT in Auditorium in international conference IC2TMA conducted on 14th & 15th February, 2020 and the same paper has been published in Web of Science index journal named International Journal of Future Generation Communication and Networking

Reference - Vatharkar P, Karade M (2020), Mediating Role of Career Satisfaction on Relationship between Role Conflict and Work Life Balance, International Journal of Future Generation Communication and Networking, Vol- 13, ISSN: 2233-7857, pp. 150 – 158

International Journal of Future Generation Communication and Networking
Vol. 13, No. 2, (2020), pp. 150 - 158

Mediating Role of Career Satisfaction on Relationship between Role Conflict and Work Life Balance

Prof. Dr. Poonam Vatharkar

Assistant Professor, Organizational Behaviour and Human Resource Management

Ms. Anusha Murhe (MBA- I year)

Ms. Madhuri Karade (MBA- I year)

MES's Institute of Management & Career Courses –MBA. Pune –India.

Abstract

In today's social environment individuals have to play multiple roles in their personal and professional lives. Constant demands coming from various role senders may lead to experience of role conflict for working individuals, giving way to feeling of work life imbalance. The current study focuses on impact of role conflict on work life balance of working individuals and the role of career satisfaction in mitigating this impact. Career satisfaction was expected to mediate on a relationship between role conflict and work life balance. Hierarchical regression analysis was used to test this mediation. The results of this study show strong correlation among role conflict (RC), work life balance (WLB) and career satisfaction (CS). CS was found to completely mediate between RS and WLB. The results focus on the importance of career satisfaction for working individuals. Even though it is not within the control of organizations (employer)

Link: https://drive.google.com/drive/folders/1ZQNRte-hyv737LL4cQwjj4D0xPAz7_Y1

