



**KBN** COLLEGE  
ESTABLISHED IN 1965



ISO 9001-2015 CERTIFIED

NAAC 'A' GRADE CYCLE 3

# **KAKARAPARTI BHAVANARAYANA COLLEGE**

**(AUTONOMOUS)**

(Sponsored by S.K.P.V.V. Hindu High Schools' Committee), Kothapeta, Vijayawada - 520 001.

A College with Potential for Excellence (CPE) 3.5 Star Rating in Innovations & Start-Ups by MoE  
Recognized as Band PERFORMER in ARIIA by Ministry of Education, Govt. of India

**2.3.1: Student Centric methods such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT enabled tools including online resources for effective teaching and learning process**

## ADDITIONAL INFO.

- ✎ Field Trips and Industry Visits
- ✎ Internships
- ✎ Student Live / Study Projects.
- ✎ Community Service projects
- ✎ Conferences, Seminars, Workshops, Guest Lectures,  
Group Discussions, Jigsaw Puzzles, Debates, Quizzes
- ✎ Case study implementation in curriculum
- ✎ Business Labs
- ✎ Budget Analysis activity by students
- ✎ College e-Learning Platform
  - YouTube
  - Moodle
- ✎ College LMS facility (MOOCS Local Chapter)
- ✎ MOOCS Certificates (For reference)

## FIELD TRIPS AND INDUSTRY VISITS

## ACADEMIC YEAR - 2022-2023

- Industrial Visit to ITC PSPD Ltd., Bhadrachalam, on 5<sup>th</sup> & 6<sup>th</sup> May, 2023 by Department of MBA.
- Visit to Atal Community Innovation Centre- KL Startups Foundation, Guntur on 29<sup>th</sup> April, 2023 by Entrepreneurship Development Cell (II BBA Students).
- Field Visit to Acharya NG Ranga Agricultural University, Lalitha Hatchery, Bapatla, on 14<sup>th</sup> November, 2022, organized by Department of Zoology.
- Industrial Study Visit to Fizikem Laboratories, G.Konduru, Kondapalli for M.Sc. (OCH) & (ACH) students on 26<sup>th</sup> September, 2022, organized by Department of PG Chemistry.
- Industrial Study Visit to Sangam Dairy Pvt. Ltd, Vadlamudi, Tenali for I MBA II Semester Students on 6<sup>th</sup> August, 2022 organized by Department of MBA.

## ACADEMIC YEAR - 2021-2022

- Industrial Visit to Karnataka, Tamilnadu, Bangalore. Mysore, Ooty and Coonoor from 4<sup>th</sup> to 10<sup>th</sup> May, 2022 by Department of Commerce & Management.
  - Hindusthan Aeronautics Ltd., Bangalore
  - Doddabetta Tea Factory, Ooty
  - Doddabetta Chocolate Factory, Ooty
  - Nilagiri Eucalyptus Oil Manufacturing Company, Ooty
- Industrial Visit to Karnataka, Ooty and Coimbatore on 4<sup>th</sup>, 5<sup>th</sup> & 8<sup>th</sup> April, 2022 by Department of MBA.
  - Karnataka Soaps Pvt.Ltd., Bangalore
  - Benchmark Tea Factory, Bengaluru
  - Lakshmi Mills Company Ltd., Coimbatore
- Visit to SRM University, Amaravathi by Department of PG Chemistry to Final M.Sc. (Chemistry) students on 27<sup>th</sup> April, 2022.
- Field Visit to 'Kondaveedu Forest', Guntur organized by Department of Botany to III B.Sc. (CBZ) Students on 7<sup>th</sup> January, 2022.
- Department of Commerce and Management (BBA) has organized an Industrial visit to MODULO Ceramics Pvt. Ltd. at Mylavaram on 9<sup>th</sup> December, 2021

- Industrial Study Visit to 'Sri Anantha Lakshmi Spinning Mill Pvt Ltd., Guntur, for II MBA and II M.Com students' by the Departments of MBA & M.Com., on 13<sup>th</sup> November, 2021

### ACADEMIC YEAR - 2020-2021

- Field Visit to Kondapally by the Department of Botany on 23<sup>rd</sup> January, 2021.
- Field Visit to Undavalli by the Department of Botany on 28<sup>th</sup> January, 2021.
- Industrial Visit to Orch Laboratories India Pvt. Ltd., Kondapalli by the Department of Chemistry on 8<sup>th</sup> April, 2021.

### ACADEMIC YEAR - 2019-2020

- Industrial Visit to Coca-Cola Beverages Pvt. Ltd., Atmakuru, Mangalagiri, Guntur by Department of Logistics on 29<sup>th</sup> June, 2019.
- Field Trip to "GSR Nursery", Undavalli by Department of Botany on 2<sup>nd</sup> July, 2019.
- Field Trip to "CSIR – Indian Institute of Chemical Technology", Hyderabad by Department of Chemistry (UG) on 11<sup>th</sup> July, 2019.
- Field Visit to "Nuclear Fuel Complex, Department of Atomic Energy, Hyderabad" by the Department of Physics & Electronics on 6<sup>th</sup> August, 2019.
- Local Visit to SEBI Vijayawada Office by Department of MBA on 6<sup>th</sup> August, 2019.
- Industrial Visit to Hindusthan Coca-Cola Beverages Pvt. Ltd., Atmakuru, Mangalagiri on 30<sup>th</sup> August, 2019 by Department of BBA.
- Industrial Visit to KAYNES Technologies, Hyderabad from 9<sup>th</sup> September, 2019 to 14<sup>th</sup> September, 2019 by Department of MCA & M.S. (CS).
- Field Trip to "Department of Live Stock Farm Complex, NTR College of Veterinary Science, Gannavaram" by Department of Zoology on 19<sup>th</sup> September, 2019.
- Industrial Study Tour to Tea Estates and Spinning Mills (COIMBATORE–KODAIKANAL-OOTY) from 23<sup>rd</sup> to 27<sup>th</sup> September, 2019 by Department of MBA & M.Com.
- Field Visit to "Kondapalli Forest" by Department of Botany on 16<sup>th</sup> November, 2019.
- Industrial Study Visit to Tulasi Seeds Pvt. Ltd., Guntur on 16<sup>th</sup> November, 2019 by Department of MBA.
- Industrial Visit to Kwaliti Photonics and Electronics Test & Development Centre, Hyderabad on 21<sup>st</sup> November 2019 by Department of Physics & Electronics.

- Field Visit to CIFA, Penamaluru on 23<sup>rd</sup> November, 2019 by Department of Zoology
- Field Visit to JOCIL Pvt. Ltd., Guntur on 23<sup>rd</sup> November, 2019 by Department of Logistics
- Industrial Visit to Acharya Nagarjuna University (KAZA), Guntur on 7<sup>th</sup> December, 2019 by Department of Botany
- Industrial Visit to Council of Scientific and Industrial Research, Bengaluru on 12<sup>th</sup> December, 2019 by Department of Chemistry.
- Field Visit to Prawn Processing Unit, Penamaluru on 13<sup>th</sup> December, 2019 by Department of Zoology.
- Industrial Visit to KCP Sugar Factory, Vuyyuru on 25<sup>th</sup> January, 2020 by Department of Logistics.
- Industrial Visit to KCP Sugar Factory, Vuyyuru on 7<sup>th</sup> February, 2020 by Department of Botany.
- Industrial Visit to Vizag (LG Chem, Synergy Casting Limited) from 20<sup>th</sup> to 22<sup>nd</sup> February, 2020 by the Department of BBA.
- Industrial Visit to Ambika Agarbatti Aaroma, Eluru on 22<sup>nd</sup> February, 2020 by Department of M.Com.

## **ABOUT THE INDUSTRIAL VISIT**

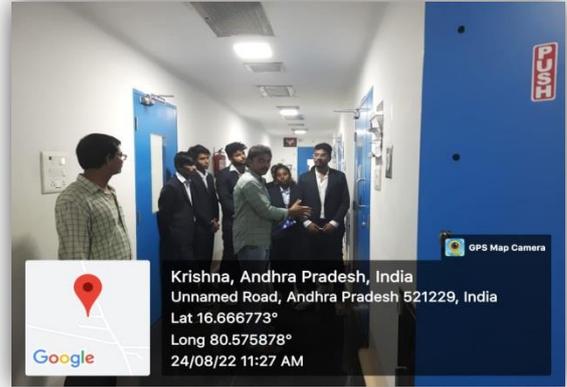
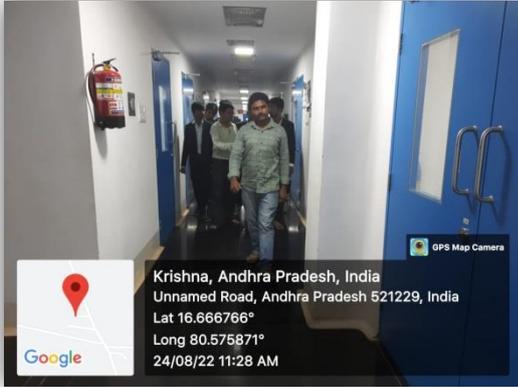
The Department of Commerce and management has organized an Industrial Visit to FIZIKEM LABORATORIES Pvt Ltd at G.Konduru, Mylavaram, and Vijayawada. On 24<sup>th</sup> Aug 2022. As a part of the curriculum 86 students along with 2 Faculty members went for Industrial Visit and witnessed the working environment of Pharma Industry like FIZIKEM LABORATORIES Pvt Ltd, Vijayawada.



**Principal, HOD, and the faculty of BBA  
wishing the students a grand success for their  
Industrial Visit**

## **OBJECTIVES OF INDUSTRIAL STUDY VISIT:**

- ❖ To provide awareness on Pharmaceutical Industry
- ❖ To know the latest trends in Pharma Industry.
- ❖ To Know how the Government of India is giving priority to Pharmaceutical Industries
- ❖ To experience the real time knowledge on How the Ayurveda and Allopathy is making its impact in curing some spreadful diseases.
- ❖ To Bring awareness about manufacturing Process of Ayurveda and Allopathy products in the factory
- ❖ To Know the various welfare facilities provided to the employees in the Factory
- ❖ To Know the work life balance & quality of work life of the employees in Pharma industry
- ❖ To know how medicated Products are marketed throughout the state of Andhra Pradesh and other parts of our country.



**STUDENTS @ FIZIKEM EXPERIENCING THE PROCESS OF MANUFACTURING  
DIFFERENT MEDICINES**



**GROUP PHOTO @ FIZIKEM LABORATORIES Pvt Ltd**

# **KBN COLLEGE: DEPARTMENT OF PG CHEMISTRY**

## **VISIT TO OOTY & COONOOR**

**(1-11- 2022 to 6-11-2022)**

### **REPORT**

An Industrial visit has been organized by the PG Department of Chemistry, KBN College, Vijayawada, for II<sup>nd</sup> M..Sc Chemistry Students from 1<sup>st</sup> to 6<sup>th</sup> November, 2022 for the academic year 2022-23 to OOTY & COONOOR , Tamilnadu.

It is a four day long visit, 40 students participated and three faculty members coordinated the visit. Students visited Tea Factory, Chocolate factory & Eucalyptus factory in ooty.

We reached the Tea Factory at around 2PM afternoon of 2<sup>nd</sup> November 2022. As we entered the factory we could smell the intense aroma of tea. There was a video running, explaining each stage of tea production. They showed us from the beginning, exactly how the tea leaves are processed through different stages like withering, rolling, drying, and finally the shifting stages.

We could actually see the real production of tea in the factory. The process of drying the tea leaves inside a stainless steel sheet and then these dried tea leaves are passed through the crushers and finally, the tea is produced using the cut, curl and twist method.

Once we witness the tea production, we got to taste a cup of hot tea, which was very refreshing and good to taste. There is a proper tea store to purchase tea for the visitors.

Then we moved further to the Chocolate production section, we saw how they prepare chocolates from cocoa to powder and then prepare the chocolate paste and later mold it in different shapes.



## KBN COLLEGE: DEPARTMENT OF PG CHEMISTRY

### SHORT VISIT TO FIZIKEM Laboratory (G.Kondur)

(26<sup>th</sup> September, 2022)

#### REPORT

I M.Sc. Organic and Analytical Chemistry students visited **FIZIKEM Laboratory** on 26<sup>th</sup> September, 2022. It is a daylong visit, coordinated with 45 students and three faculty members.

The Pharma Industry constituted of three major departments QA, QC and R&D. Main objective of this industrial visit is to explore the students to understand the process that is going on in the above said major departments. Students were able to understand the drug designing and development process of many diseases currently faced by the public. By visiting QC & QA Departments the students obtain knowledge about the process of developing new methods for the analysis of several drugs prepared in the Fizikem Laboratory.

- ❖ To help student gain practical knowledge
- ❖ To keep students update on the latest trends in industries



## **PG DEPARTMENT OF BUSINESS ADMINISTRATION**

### **INDUSTRIAL STUDY TOUR**

**MAY- 2023**

#### **ITC PSPD UNIT, BHADRACHALAM, TELANGANA**

The PG Department of Business Administration organized an industrial study visit to ITC PSPD Ltd, Bhadrachalam on May 5th and 6th, 2023. A total of 97 students participated, accompanied by 3 faculty members. The visit was divided into two days, with permission granted by ITC for 50 students each day.

On May 5th, we departed from the Bus Stand Premises at 6:30 am with 46 students and 3 faculty coordinators. We arrived at ITC Bhadrachalam at 11:00 am. Upon reaching the company, the students were divided into two smaller groups, each consisting of 25 students and one faculty coordinator. The industry coordinator, Asst. HR Reshma from ITC, accompanied the students and took them to the seminar hall for an interactive session with the Assistant HR Manager.



#### **Students Gathering at the Starting of the industrial study visit.**

During the session, they explained the process of gathering raw materials from the forest and the paper-making process from those raw materials. Before the plant visit, the company representatives instructed the students to wear helmets and shoes to enter the plant. Subsequently, they guided the students through the in-house plant, explaining various concepts related to paper production and other activities carried out at the ITC PSPD unit. The company coordinators showcased all the production machinery and other related

equipment used in the paper-making process. They also demonstrated the packing units for paper bundles. The first batch of 25 students completed the plant visit, followed by the second batch.

The Assistant HR Manager then provided an explanation of various concepts related to the industry. He discussed the company's HR policies, marketing strategies, and how they manage financial aspects. He also addressed any doubts or questions the students had regarding HR, finance, and marketing concepts at ITC PSPD.



### STUDENTS GATHERING AT ITC PSPD, BHADRACHALAM UNIT

On May 6th, the Section B students gathered at the bus stand. With a total of 51 students and 3 faculty members, we departed at 6:30 am and arrived at ITC Bhadrachalam at 11:00 am. Similar to the previous day, the students were divided into two groups, each consisting of 25 students and one faculty coordinator. The industry coordinator, Asst. HR Manager Srinivasa Rao from ITC, accompanied the students and took them to the seminar hall for another interactive session.

## PG DEPARTMENT OF BUSINESS ADMINISTRATION

### INDUSTRIAL STUDY TOUR

AUGUST- 2022

#### SANGAM DAIRY, VADLAMUDI, TENALI

The PG Department of Commerce and Business Administration (MBA Programme) organised industrial study visit to Sangam Dairy Pvt Ltd, Guntur on 06<sup>th</sup> August 2022. Total 71 Students participated and 3 faculty members accompanied with the students. They started on 06<sup>th</sup> August 2022 at 8.30 am in the college premises. They reached Sangam Dairy at 10.00 am.



**Our Vice Principals Sri. P. L. Ramesh and Sri. Dr.M.Venkateswara rao and PG Director Sri. S.Venkatesh inaugurated the industrial study visit.**

After reaching the company the students are divided into 2 smaller groups. The Industry co-ordinators Mr.Ramakrishna ,Production Manager & Mr. Rajesh ,Asst.HR accompanied with the students for Dairy visit. They explained the process of how Raw Milk is Gathered From the farmers and How to Bring that Milk to Compnay through Milk Tankers.

After that they took the students to In- House of dairy Plant and Explained Different Concepts relating to the Milk Production and other activities taken place in the Diary Unit.The Companay Co- ordinators has shown all production Machinery & Other related machinery for making Milk ready for Consumption.They have also shown the Packing Unit.

After the main Plant the Industry Co-ordinators have taken the students into Milk By Products Unit ,Where the By-Products such as Cova, Doodh-Peda, Butter – Milk, Lassi , Basundi Etc. are manufactured.

Then the Assistant–HR explains various concepts related to the industry. He explained about their HR policies and marketing strategies and how they maintain financial related things to the students. He also clarified the doubts of students regarding HR, Finance & marketing Concepts of Sangam Dairy Unit.



## **DEPARTMENT OF ZOOLOGY**

### **INDUSTRIAL/FIELD TRIP ON 14.11.2022**

The Department of Zoology organized Industrial/Field Trip on 14<sup>th</sup> November 2022; Students from First, Second & Third years of CBZ Section participated in the visit. On the day of our visit, Students along with Staff members of Zoology assembled in front of our College Library at 9.30 AM after giving proper instructions to our Students.

With the best wishes from Degree Vice Principal Dr. M. Venkateswara Rao, Sri P.L.Ramesh, Ms. G. Krishnaveni Co-ordinator IQAC and Dr. T. Bhagya Kumar In-charge Principal Intermediate wing started our Industrial/Field trip to Bapatla Hatchery by our College Bus at 10.00AM.



### **OBJECTIVE**

To develop an appreciation for the complexity of the sustainable Aqua culture Management by practicing the skills of observing, recording, and collection of data during Industrial/Field trip to Shrimp Hatchery.

### **BACKGROUND INFORMATION:**

Lalitya Shrimp Hatcheries is located near to sea coast of Bapatla, in 5 Acres of land it started in the year 2014 by Dr. A. Nagesh Babu. Mainly the Shrimp cultivation depends on the Water quality for Shrimp Hatcheries encompasses the sum total of physical, chemical and biological factors of the oceanic water that support healthy larval development. Typical inlet water treatment currently involves mechanical separation of then suspended particles by filtration, chlorination and dechlorination, and storage under hygienic conditions is very important in Shrimp cultivation. The Lalitya Shrimp Hatcheries is producing different species *Litopenaeus vannamei*,

*Penaeus monodon*, *Penaeus indicus*, *Macrobrachium rosenbergii*, *Macrobrachium malcolmsonii* and lucky ornamental fish species. It also explores in experimenting many salt water and rare species.

## FIELD OBSERVATIONS:

### Study on stages of Shrimp larva:

During the visit Dr. Nagesh Babu explained about the preventive steps to be taken in different stages of Larva produce in Shrimp cultivation, Students observed Shrimp larva and noted the important topics relating Shrimp Larva.



### Shrimp Tanks & Pumping of Marine Water:

Different size of Shrimp Tanks were seen during the visit pumping of Marine Water is a big challenge for the farmers in Shrimp farming. Process of preparation of Tanks and filling of Tank with Marine water was practically shown to the students. Readings of water quality were also taken by the Students with the help of the Farm staff.



## LIST OF PROGRAMMES HAVING FIELD PROJECT / INTERNSHIP DURING THE LAST FIVE YEARS

Name of the Programme	Name of the component (Field project / research project/ internship)	Number of students undertaking the field projects / research projects/ internships
<b>YEAR-1-2022-23</b>		
B.Sc. (MPC)	Internships & Field Projects	52
B.Sc. (CBZ)	Internships & Field Projects	71
B.Com. (General)	Internships & Field Projects	114
B.Sc. (MPCs)	Internships & Field Projects	115
B.Com. (T.P)	Internships & Field Projects	175
B.Com. (Computers)	Internships & Field Projects	402
BCA	Internships & Field Projects	407
B.Sc. (MECs)	Internships & Field Projects	82
BBA	Internships & Field Projects	156
B.Sc. (MSCs)	Internships & Field Projects	270
B.Com. (Logistics)	Internships & Field Projects	134
B.Sc. (MCCs)	Internships & Field Projects	83
B.Sc. (DS)	Internships & Field Projects	132
B.Sc. (IoT)	Internships & Field Projects	65
B.Voc. (WT&SD)	Internships & Field Projects	104
MBA	Internships & Field Projects	87
M.Sc. (OCH)	Internships & Field Projects	30
MCA	Internships & Field Projects	130
M.Sc. (ACH)	Internships & Field Projects	21
<b>YEAR-2-2021-22</b>		
B.Sc. (MPC)	Internships & Field Projects	58
B.Sc. (CBZ)	Internships & Field Projects	48
B.Com. (General)	Internships & Field Projects	81
B.Sc. (MPCs)	Internships & Field Projects	84
B.Com. (T.P)	Internships & Field Projects	130
B.Com. (Computers)	Internships & Field Projects	270
BCA	Internships & Field Projects	277
B.Sc. (MECs)	Internships & Field Projects	75

BBA	Internships & Field Projects	96
B.Sc. (MSCs)	Internships & Field Projects	200
B.Com. (Logistics)	Internships & Field Projects	88
B.Sc. (MCCs)	Internships & Field Projects	77
B.Sc. (DS)	Internships & Field Projects	78
B.Sc. (IoT)	Internships & Field Projects	60
B.Voc. (IT-ITes)	Internships & Field Projects	32
B.Voc. (WT&SD)	Internships & Field Projects	118
M.Sc. (CS)	Internships & Field Projects	21
M.Com.,	Internships & Field Projects	7
MBA	Internships & Field Projects	83
M.Sc. (OCH)	Internships & Field Projects	29
MCA	Internships & Field Projects	60
M.Sc. (ACH)	Internships & Field Projects	16
<b>YEAR-3-2020-21</b>		
B.Sc. (MPC)	Internships & Field Projects	65
B.Sc. (CBZ)	Internships & Field Projects	62
B.Com. (General)	Internships & Field Projects	65
B.Sc. (MPCs)	Internships & Field Projects	87
B.Com. (T.P)	Internships & Field Projects	108
B.Com. (Computers)	Internships & Field Projects	230
BCA	Internships & Field Projects	222
B.Sc. (MECs)	Internships & Field Projects	71
BBA	Internships & Field Projects	77
B.Sc. (MSCs)	Internships & Field Projects	145
B.Com. (Logistics)	Internships & Field Projects	56
B.Sc. (MCCs)	Internships & Field Projects	84
B.Sc. (DS)	Internships & Field Projects	86
B.Sc. (IoT)	Internships & Field Projects	48
B.Voc. (WT&SD)	Internships & Field Projects	37
M.Sc. (CS)	Field Project / Research Project	42
M.Com.,	Field Project / Research Project	17
MBA	Internships & Field Projects	91
M.Sc. (OCH)	Internships & Field Projects	31

MCA	Internships & Field Projects	52
M.Sc. (ACH)	Internships & Field Projects	13
<b>YEAR-4-2019-20</b>		
B.Sc. (MPC)	Field Project / Research Project	44
B.Sc. (CBZ)	Field Project / Research Project	20
B.Com. (General)	Field Project / Research Project	43
B.Sc. (MPCs)	Field Project / Research Project	51
B.Com. (T.P)	Field Project / Research Project	60
B.Com. (Computers)	Field Project / Research Project	75
BCA	Field Project / Research Project	66
B.Sc. (MECS)	Field Project / Research Project	46
BBA	Field Project / Research Project	25
B.Sc. (MSCS)	Field Project / Research Project	115
B.Com. (Logistics)	Field Project / Research Project	20
B.Sc. (MCCS)	Field Project / Research Project	44
M.Sc. (CS)	Field Project / Research Project	31
M.Com.,	Field Project / Research Project	13
MBA	Field Project / Research Project	39
M.Sc. (OCH)	Field Project / Research Project	18
MCA	Field Project / Research Project	54
<b>YEAR-5-2018-19</b>		
B.Sc. (MPC)	Field Project / Research Project	37
B.Sc. (CBZ)	Field Project / Research Project	31
B.Com. (General)	Field Project / Research Project	58
B.Sc. (MPCs)	Field Project / Research Project	44
B.Com. (T.P)	Field Project / Research Project	65
B.Com. (Computers)	Field Project / Research Project	73
BCA	Field Project / Research Project	73
B.Sc. (MECS)	Field Project / Research Project	48
BBA	Field Project / Research Project	47
B.Sc. (MSCS)	Field Project / Research Project	85
B.Com. (Logistics)	Field Project / Research Project	30
B.Sc. (MCCS)	Field Project / Research Project	48
M.Sc. (CS)	Field Project / Research Project	21
M.Com.,	Field Project / Research Project	23

<b>MBA</b>	Field Project / Research Project	<b>108</b>
<b>M.Sc. (OCH)</b>	Field Project / Research Project	<b>19</b>
<b>MCA</b>	Field Project / Research Project	<b>41</b>

## CERTIFICATES (FOR REFERENCE)



Date: 26-Dec-22

**INTERNSHIP COMPLETION LETTER  
TO WHOM SO EVER IT MAY CONCERN**

This to certify that **Aalakunta Ganesh** , **O360761** having Roll No.**203954** , a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 27-Jul-2022 to 28-Nov-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best of their future endeavors.

For Ecom Express Limited

Authorized Signatory



**ECOM EXPRESS LIMITED**

(Formerly known as ECOM EXPRESS PRIVATE LIMITED)

Corporate Office : 10th Floor, Ambience Corporate Tower - II, Ambience Island, Gurugram, Haryana - 122002, India  
Registered Office : Ground Floor, 13/16min, 17 min, Samalka, Old Delhi - Gurugram Road, Kapashera, New Delhi - 110037, India  
CIN : U63000DL2012PLC241107 | Tel. : 0124-6488888 | Email : corporate@ecomexpress.in | www.ecomexpress.in



## **Business Management Internship Certificate**



This is to certify that Mr. Gumma Venkata Nagendra babu II B.com (logistics) has done her internship in Business Management at Winfinith company. Vijayawada, from 04/05/2022 to 29/07/2022. (200 hours)

He has worked on establishing relationships with new clients and making deals for our new project aimed at selling handmade products. As a part of the project, he has approached the clients through the mail, and in person, based on the sales and Marketing specifications.

During his internship, he demonstrated self-motivation skills to improve new skills. His performance exceeded our expectations and he has completed the target on time.

We wish him all the best for the upcoming future.

Project Manager

*P. Chenniah*



Date: 20/09/2022

## INTERNSHIP COMPLETION CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This to certify that Mr. Ketham Maheswara Rao, having Roll No. 203958, a student of III B.Com. (Logistics), K.B.N. College (Autonomous), Vijayawada has successfully completed his 200 Hours Internship Programme from 01/07/2022 To 31/07/2022 at our Warehouse, situated in R.R. Nagar, Industrial Area, Vijayawada and has received basic training in the field of Logistics & Ware House Management.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best for their future endeavours.

Very truly yours,

For Advance Auto Parts

Authorised Signatory



## ADVANCE AUTO PARTS

(Authorised Distributor for Maruti Suzuki Genuine Parts)

<b>Central Office</b> #55-1-47, Plot No 1, First Floor, 100 Feet Road, Autonagar Ph: 08662545154	<b>Main Warehouse</b> #25-39/2, 7 <sup>th</sup> Lane, R.R.Nagar, Kabela Industrial Area, Gollapudi Ph: 9246455455	<b>Autonagar (Vjw)</b> #55-1-47, Plot No 1, 100 Feet Road, Autonagar Ph: 9246474647	<b>Governorpet (Vjw)</b> #27-18-39, Congress Office Road, Governorpet Ph: 9248750227	<b>Prjasaktinagar (Vjw)</b> #32-6-18/B, Water Tank Road, Prajasakti Nagar Ph: 9133699297	<b>Koritepadu (Gnt)</b> #4-4-27, Kommineni Complex, Koritepadu Ph: 91336 60866	<b>Autonagar (Gnt)</b> Plot No 322, Phase 1&2, Autonagar Ph: 7842456566
<b>Ongole</b> Survey No 129, Old Guntur Road, Adj to Bridgestone Select	<b>Nellore</b> #26-11-227/1, Padarupalli, Mini Bypass Road	<b>Tirupati</b> #22-11-27/1, Poolawanigunta, Regigunta Road	<b>Chittoor</b> #27-974/975, Sivaram Complex, Palamaneru Road	<b>Kadapa</b> #8/659, Vakkalapedi, Almaspet Ph: 8121851477	<b>Khammam</b> #15-7-638/A, Bypass Road, Rotary Nagar, Ph: 7059995666	<b>Kothagudem</b> #4-23/1, Opp FCI Godowns, Lakshmidevi Pulli



Date: 26-Dec-22

**INTERNSHIP COMPLETION LETTER  
TO WHOM SO EVER IT MAY CONCERN**

This to certify that **Vedala Rama Charan Rithvik**, **O367086** having Roll No.**203961**, a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 29-Aug-2022 to 18-Oct-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best of their future endeavors.

For Ecom Express Limited

Authorized Signatory



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Date: 11/08/2022

**INTERNSHIP COMPLETION CERTIFICATE**

**TO WHOM SO EVER IT MAY CONCERN**

This to certify that Mr. DOLA DURGA CHANDRA SEKHAR having Roll No. K2001148, a student of II B.Com. (Logistics), K.B.N. College (Autonomous), Vijayawada has successfully completed his / her 2 Months (200 Hours) Internship Programme at our TRACKON COURIERS AND CARGO SERVICES #26-15-11, Sai Sadan, Vudathavari st, Gandhi nagar, Vijayawada, AP-520003 and has received basic training in the field of Logistics & Ware House Management.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best for their future endeavors.

Very truly yours,



*P. Panuja*  
Authorised Signature with stamp



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**INTERNSHIP COMPLETION CERTIFICATE**  
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This to certify that Mr. VUTHANA VEEDI SIVA DURGA RAO, having Roll No : 203949 a student of II B.Com. (Logistics), K.B.N. College (Autonomous), Vijayawada has successfully completed his / her 2 Months (200 Hours) Internship Program at our TRACKON COURIERS AND CARGO SERVICES #26-15-11, Sai Sadan, Vudathavari st, Gandhi nagar, Vijayawada, AP-520003 and has received basic training in the field of Logistics & Ware House Management.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best for their future endeavors.

Very truly yours,

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Date: 26-Dec-22

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This to certify that **sanadhaka Surya Prakash** , **O360748** having Roll No.**203946** , a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 27-Jul-2022 to 01-Nov-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best of their future endeavors.

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This to certify that **Srungeerapu Bhargavi** , **O360737** having Roll No.**203935** , a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 27-Jul-2022 to 06-Nov-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

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This to certify that **Devu Pavan Adhithya** , **O360741** having Roll No.**203937** , a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 27-Jul-2022 to 03-Nov-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best of their future endeavors.

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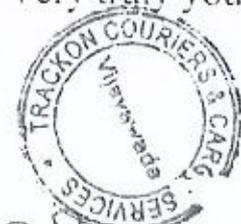
Date: 11/08/2022

**INTERNSHIP COMPLETION CERTIFICATE**  
**TO WHOM SO EVER IT MAY CONCERN**

This to certify that Mr. **UDUGULA MADHAV SURESH**, having Roll No. **K2001138**, a student of II B.Com. (Logistics), K.B.N. College (Autonomous), Vijayawada has successfully completed his / her 2 Months (200 Hours) Internship Programme at our **TRACKON COURIERS AND CARGO SERVICES** .#26-15-11,Sai Sadan,Vudathavari st,Gandhi nagar,Vijayawada,AP-520003 and has received basic training in the field of Logistics & Ware House Management.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best for their future endeavors.

Very truly yours,



*P. Vanuja*  
Authorised Signature with stamp



Date: 26-Dec-22

**INTERNSHIP COMPLETION LETTER  
TO WHOM SO EVER IT MAY CONCERN**

This to certify that **Mandala Ganesh** , **O360728** having Roll No.**203941** , a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 27-Jul-2022 to 01-Nov-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best of their future endeavors.

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Date: 11/08/2022

## INTERNSHIP COMPLETION CERTIFICATE

### TO WHOM SO EVER IT MAY CONCERN

This to certify that Mr. YENNU CHANDRA SEKHAR, having Roll No. K2001143, a student of II B.Com. (Logistics), K.B.N. College (Autonomous), Vijayawada has successfully completed his / her 2 Months (200 Hours) Internship Programme at our TRACKON COURIERS AND CARGO SERVICES #26-15-11, Sai Sadan, Vudathavari st, Gandhi nagar, Vijayawada, AP-520003 and has received basic training in the field of Logistics & Ware House Management.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best for their future endeavors.

Very truly yours,



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Date: 26-Dec-22

**INTERNSHIP COMPLETION LETTER  
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This to certify that **Reddy Satish** , **O360753** having Roll No.**203933** , a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 27-Jul-2022 to 28-Nov-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best of their future endeavors.

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This to certify that **jaldi Santosh Kumar** , **O360791** having Roll No. **203920** , a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 27-Jul-2022 to 03-Oct-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

During their tenure here, we found the candidate to be punctual, hardworking and inquisitive. We wish them all the very best of their future endeavors.

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This to certify that **Kodamanchali venkata Ramana** , **0360795** having Roll No.**203921** , a student of III B.Com. (Logistics), K.B.N College (Autonomous), Vijayawada has successfully completed his **180 hrs working** Internship Program from 27-Jul-2022 to 08-Oct-2022 at our warehouse, situated in Mustabadh Road, Gannavaram Mandal, Vijayawada and he received basic training in the field of Warehouse Operations.

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[An Autonomous college in the jurisdiction of Krishna University, Machilipatnam - 521 001]  
KOTHAPET, VIJAYAWADA - 520 001



A PROJECT REPORT ON

**"SMART BRIDGE HEALTH MONITORING SYSTEM"**

Submitted in partial fulfilment of the requirement for the award of  
BACHELOR OF SCIENCE

In

MATHEMATICS ELECTRONICS AND INTERNET OF THINGS

By

A. Jnana Phani      205110

D. Vaishnavi      205128

Under the Guidance of

Sri. R. UDAY KUMAR, M.Sc., M.Sc(Tech)

LECTURER IN ELECTRONICS

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## ABSTRACT

The increase in the demand for the structural health monitoring information led to the development of the structural health monitoring. The bridges may collapse or be tilted due to concrete problems or due to flooding or due to excess overloading on the bridge. So, there's a requirement to design a system which will monitor the condition of the bridges. Till date, most of the SHM systems face challenges functioning at real-time and therefore the monitoring amenities are not yet established properly. To overcome this problem, Internet of Things is often used, by which we can monitor the system from anywhere. Such a system will help in disaster management and human safety. This system is composed of: Monitoring devices installed in the bridge environment, communication devices connecting the bridge monitoring devices and also a cloud-based server with a dynamic database that stores bridge condition data. This cloud-based server calculates, and analyses data transmitted from the monitoring devices. The system can monitor and analyze in real time the condition of a bridge and its environment, including the water levels, fluctuation in vibrations. The data will be stored and can be checked remotely from any mobile device. This system is validated by employing a test bed in the lab.

**Key Words:** Node MCU, Sensors, IoT, Data Analysis.

## 1 - INTRODUCTION

Structural Health Monitoring (S.H.M) is a vital tool to enhance the safety and maintainability of critical structures like bridges. SHM delivers real-time and accurate information about the concerned structure giving detailed information about its condition. Now-a-days due to incidents of bridges or change in deflection of the bridge structure, or bridge piers severely damaged by moisture, or by excess variation in vibration are frequently reported annually. Different disasters and damaged sites require different professional disaster rescue knowledge and equipment to realize optimal rescue results. However, lack of data about the damage site can impede information management at the rescue center and operation, leading to poor rescue efficiency or maybe preventable casualties. Generally, to perform SHM, firstly, data must be collected using sensors. The different types of sensors are often used by SHM to generate the signals traveling through solid configurations. Later, this data is collected from the sensors and must be analyzed by applying different signal processing techniques, because a minor variation within the system is triggered by various factors like noises, temperature changes, environmental effects, might cause significant changes within the response from the sensors, concealing the potential signal changes due to structural defects. Therefore, during this study, the IoT, Sensor networks are adopted to resolve the above-mentioned problems of bridge safety information transmission and management by developing an IoT-based bridge safety monitoring system capable of monitoring the environmental data of a bridge and transmitting the data to the mobile devices of bridge safety management. The system developed in this study can help promote the advancement of bridge safety management and control by providing breakthroughs to the above-mentioned problems of conventional systems. For developing bridge monitoring system, following technologies are going to be used. Diverse theories have been proposed and implemented to fulfil distinct requirements of structures. Integration of these various theories has helped not only to enhance the efficiency and performance of the SHM systems but also to scale back the computational time and costs. In order to share data and ensure reliability, the SHM systems use network-based services to coexist and interact with smart interconnected devices that are referred to as the IoT. The IoT brings new opportunities for our society. With the maturity of the IoT, one of the recent challenges within the structural engineering community is development of the IoT SHM systems which can provide a promising solution for rapid, accurate, and low-cost SHM

systems. Moreover, the combination of SHM, and therefore the IoT enabled ubiquitous services and powerful processing of sensing data streams beyond the potential of traditional SHM system. In this paper, an entire SHM platform embedded with IoT is proposed to detect the damage in bridges.

Following are some of the advantages of SHM system:

- The continuous monitoring of the structure since sensors are a part of it.
- The possibility of real-time damage detection.
- An automated inspection process to reduce the number of unnecessary maintenance tasks, thereby improving the economic benefits.



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**[Corporate Identity Number (CIN): U72200TG2005PTC048246]**

Ref: TTIPL/INT/2023-24/003  
Date: 21/04/2023

### **INTERNSHIP CERTIFICATE**

This is to certify that Mr.Ambadipudi Guru Jnana Phani, S/O Mr. Ambadipudi S R N Prasad Babu student of B.SC - (IoT) 3<sup>rd</sup> year 6<sup>th</sup> Semester in Kakaraparthi Bhavanarayana college, Vijayawada has successfully completed 03 (Three) months From 16<sup>th</sup> January 2023 to 16<sup>th</sup> April 2023 long internship program at this Branch/Company. During the period of his internship program with us, he was found to be punctual, hardworking, and inquisitive.

We wish him every success in life.

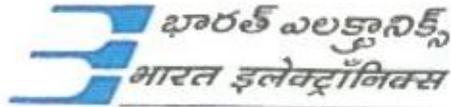
For Thotakā Tekhnologies India Private Limited

*Ashwini Kumar Upadhyay*



Ashwini Kumar Upadhyay  
Manager

**Thotakā Tekhnologies India Private Limited**  
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**BHARAT ELECTRONICS**

**भारत इलेक्ट्रॉनिक्स लिमिटेड**

(भारत सरकार का एक स्वायत्त निकाय के अधीन)

रविन्द्रनाथ टागोर रोड, पो.ब.नं. 26,

मचिलिपट्टनम - 521 001, आ.प्र. भारत.

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संख्या/No : 421/HR/HRD/PROJ/2023-24

दिनांक / Date: 19 April 2023

## CERTIFICATE

This is to certify that Ms. DONDAPATI VAISHNAVI Regd.No.K2001428, student of BSC (IOT) from K.B.N College, Vijayawada has undergone "INTERNSHIP" in our DEVELOPMENT AND ENGINEERING DEPARTMENT from 19.01.2023 to 19.04.2023

During the training period the student was found to be hard working & well behaved.

For भारत इलेक्ट्रॉनिक्स लिमिटेड / Bharat Electronics Limited

मानव संसाधन कार्यकारी / HR EXECUTIVE

कारपोरेट ऑफिस: आउटर रिंग रोड, नागवरा, बंगलूर - 560 045

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KOTHAPET, VIJAYAWADA - 520 001



A PROJECT REPORT ON

**“CAR ACCIDENT AND ALCOHOL DETECTION USING  
DECODER BLACK BOX”**

Submitted in partial fulfilment of the requirement for the award of

BACHELOR OF SCIENCE

In

ELECTRONICS AND COMPUTER SCIENCE

by

K.SAI KIRAN	203439
SK. NAGUR BABU	203414
N. L. GANESH KUMAR	203437
M. TRINADH	203447

Under the Guidance of

Sri. R. UDAY KUMAR, M. Sc, M. Sc (Tech)

LECTURER IN ELECTRONIC

**An Internship Report on**

Guideship of car accident and alcohol detection

using decoder Block <sup>Box</sup> (Title of the Semester Internship

Program) Submitted in accordance with the requirement for

the degree of

Electronics Department

**Under the Faculty**

(Name of the Faculty Guide)

R. Uday Kumar

Department of

Electronics

KBN college  
(Name of the College)

Submitted by:

Sk. Nagar babu, K. Sai Kiran, N. L. Ganesh Kumar, M. Trinadh

(Name of the Student)

**Reg. No:** K2000314, 37, 39, 47

Department of Electronics

KBN college.

(Name of the College)

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experience non-fatal accidents. Road traffic injuries are a major public health problem in general. The main cause of road traffic accidents is the lack of efficiency for those who use the road to get some work done. The traffic studies cost more money.

So here we design a system of numbers like ambulances, for signs of accident or may help roadways for lead and help the cause of accident to avoid it.

Date: 05/01/2023

# Internship Certificate

This is to certify that **K. Sai Kiran** bearing Code: **YRKR2212242** has successfully completed 600(Six Zero Zero) Hours internship with Spice Skills (DDU-GKY) as a Trainee Intern in the Electronic Design and Embedded Development Department from 12<sup>th</sup> Sep 2022 to 31<sup>st</sup> December 2022.

They have worked on the **Black Box** Project under the supervision and guidance of **D Srinivasa Reddy**. During the internship, he has gained several learning's such as **Embedded Programming using Arduino, PCB Designing and Soft Skills**.

Besides showing high comprehension capacity, managing assignments with the utmost expertise, and exhibiting maximal efficiency, he has also maintained an outstanding professional demeanor and showcased excellent moral character throughout the internship period.

I hereby certify his overall work as good to the best of my knowledge.

Wishing him the best of luck in his future endeavors.

Attendance: 85%

Viva Voce: 73%

For Spice Skills India LLP.  
**CH. NARAYANA RAO**



**SPICE SKILLS INDIA LLP.**

Anjaiah Road, Opp: Karthikeya Hospital,  
Ongole - 523002, Prakasam dist., A.P. Tel:  
08592 - 226833, Mob: 9246230333.  
Email: spicetechnologies.ap@gmail.com  
info@spicetechnologies.in



Date: 05/01/2023

# Internship Certificate

It is to certify that **M. Trinadh** bearing Code: **YRKR2212408** has successfully completed **3600** (Six Zero Zero) Hours internship with Spice Skills (DDU-GKY) as a Trainee Intern in the **Electronic Design and Embedded Development** Department from **12<sup>th</sup> Sep 2022 to 31<sup>st</sup> December 2022**.

He has worked on the **Black Box Project** under the supervision and guidance of **D Srinivasa Reddy**. During the internship, he has gained several learning's such as **Embedded Programming, Arduino, PCB Designing and Soft Skills**.

Thereby certify his overall work as **Satisfactory** to the best of my knowledge.

Wishing him the best of luck in his future endeavors.

Attendance: **70%**

Practical: **57%**

For Spice Skills India LLP.

**CH. NARAYANA RAO**



**SPICE SKILLS INDIA LLP.**

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info@spicetechnologies.in



**PHYTOCHEMICAL SCREENING OF ACETONE, HYDRO ALCOHOLIC AND  
AQUEOUS LEAF EXTRACT OF NUT GRASS**

A project is submitted for the partial fulfillment of the award of the  
Degree of

**MASTER OF SCIENCE IN ORGANIC CHEMISTRY**

SUBMITTED BY

**B. THIRUPATHAIAH** (Reg. No: R20OCH004)

**T. PAVAN KUMAR** (Reg. No: R20OCH029)

**V.V.S. KESAVA RAO** (Reg. No: R20OCH030)



Guided By

**Smt. G. KRISHNAVENI, M.Sc., M.Phil., Ph.D**

**Assistant Professor**

**P.G. Department of Chemistry**

ISO: 9001-2008

Re-accredited at 'A' by NAAC

**KAKRAPARTI BHAVANARAYANA COLLEGE**

(Affiliated to Krishna University)

A COLLEGE WITH POTENTIAL FOR EXCELLANCE (CPE)

Kothapct, Vijayawada-1

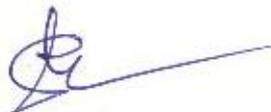
**2020-2022**

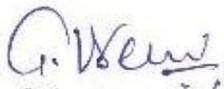
**KAKARAPARTHIBHAVANARAYANA COLLEGE**  
**PG DEPARTMENT OF CHEMISTRY**



**CERTIFICATE**

This is to certify that this project work entitled "PHYTOCHEMICAL SCREENING OF ACETONE, HYDRO ALCOHOLIC AND AQUEOUS LEAF EXTRACT OF NUT GRASS" being submitted by B. Thirupathaiah (R20OCH004), T. Pavan Kumar (R20OCH029) and V. Kesavarao (R20OCH30) in the partial fulfilment for the award of the Master of Science in Organic Chemistry during the academic year 2020-2022.

  
Lecturer In charge

  
Head of the Department

  
EXTERNAL EXAMINER

## DECLARATION

I hereby declare that the project work entitled "PHYTOCHEMICAL SCREENING OF ACETONE, HYDRO ALCOHOLIC AND AQUEOUS LEAF EXTRACT OF NUT GRASS" submitted to the K.B.N PG COLLEGE affiliated to KRISHNA UNIVERSITY, has been done by me under the guidance of Smt. G. KRISHNAVENI, M.Sc., M.Phil., Ph.D, Assistant Professor, PG Department of Chemistry, during the period of study in the college and that it has not formed the basis for the award of the Degree/Diploma of other similar title to any candidate of university.

VIJAYAWADA

Date: 9/7/22

SIGNATURE OF THE CANDIDATE

T. PAVAN KUMAR

B. Thirupathaiyal

N.V.S. Kesavarao.

## ACKNOWLEDGEMENT

I express my deepest gratitude to Smt. O. Saijalja M.Sc., Assistant professor, P.G. Department of Chemistry (ORGANIC CHEMISTRY), whose encouragement, guidance and support enabled me to complete my project work successfully, I am greatly obliged to her for her valuable advice, critical suggestions and untiring support during the completion of my work

My sincere thanks to Dr. G. Krishnaveni, Head of the Department of Chemistry, K.B.N. College, for her constant support and co-operation during the entire course

My heartfelt gratitude to Dr. K. Kiran Kumar, Dr. M. Siva Kishore and Ms. K. Madhubala PG. Department of the chemistry, K.B.N. College for their constant encouragement and support throughout my course. I shall be indebted to him for his support.

My special thanks to Sri. **S. VENKATESH**, M.Phil Director, PG course for being a Course inspiration and constantly encouraging me throughout the course to pursue new goals and ideas .

Finally I bow my head in gratefulness to the **gracious god almighty** for his blessing that gave me the will power, dedication, perseverance, strength and stamina of my in achieving my goal .

**T. PAVAN KUMAR**

**(Reg. No: R20OCH029)**

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# Chapter-1

# Introduction

### PLANT INTRODUCTON

**NUT GRASS** Although not a grass species, the name 'nutgrass' is commonly used for this plant in Australia. It is also sometimes called 'nutsedge'. It usually grows to between 20 and 50cm tall, and occasionally taller under favourable conditions. Stems are erect, smooth, not branched, and triangular in cross-section.

*Cyperus rotundus* (coco-grass, Java grass, nut grass, purple nut sedge or purple nutsedge, red nut sedge, Khmer kravanh chruk is a species of sedge (Cyperaceae) native to Africa, southern and central Europe (north to France and Austria), and southern Asia.

### SCIENTIFIC CLASSIFICATION



<b>Kingdom:-</b>	Plantae
<b>Order:-</b>	Poales
<b>Family:-</b>	Cyperaceae
<b>GENUS:-</b>	<i>Cyperus</i>
<b>Species:-</b>	<i>Crotundus</i>
<b>Botanical Name:-</b>	<i>Cypreus rotundus</i>
<b>TeluguName:-</b>	Tunagamasthu
<b>Other Name:-</b>	Java grass, coco grass

### MORPHOLOGICAL CHARECTERSTICS

*Cyperus rotundus*, or Purple Nutsedge, is a perennial, glossy-green, grass-like Eurasian sedge or weed with an erect triangular stem branching into three stems of purple, antenna-like seedpods. Plants die back to the ground in fall, with new shoots emerging in spring from underground tubers. This species, as well as other sedges, grows best in wet sites, prefers warm weather and full sun conditions, but will grow in a diversity of sites and environments. Like its native cousin, Yellow Nutsedge (*Cyperus esculentus*), Purple Nutsedge spreads through slender elongated rhizomes and tubers found at the base of the stem and is destructive to crops in sunny, open fields and dry, disturbed soil. The rhizomes remove nutrients from the soil robbing their fellow plants and can be very difficult to remove. If you pull it up you can see the nut-like nodules that store the nutrients (and are edible) as well as a network of long roots. Unfortunately, once pulled up, the Nutsedge may leave broken roots to form more numerous roots and therefore, new plants in its place and seeds lay dormant for

several years. It is best to remove young plants and leave exposed roots in the sun to dry out. It is considered one of the world's worst weeds and is reported in more than 90 countries as a weed infesting at least 52 different crops.

#### Diseases, Insects, and Other Plant Problems:

No known insect or disease problems. This plant is allelopathic and removes nutrients from soil and its existence in a field significantly reduces crop yield. It is resistant to most herbicides and is one of the few weeds that cannot be stopped with plastic mulch.

#### occurrence

Nutgrass is a perennial weed plant from rhizomes and tubers. It can reach 2 1/2 feet in height. It is found throughout the southeastern United States as a common weed of agronomic and horticultural crops, nurseries, turfgrass, and landscapes.

#### Medical Uses

- ❖ Nut grass is a cooling in nature
- ❖ Its anti inflamantary property helps sooode redness
- ❖ Breakouts and inflamed skin
- ❖ Its has proven to treat severe skin condition
- ❖ Its is rich in fatty acid .
- ❖ Vitamins and flavanoids which are extremely beneficial for as well as hair.

### ❖ SOXHLET EXTRACTION

- ❖ It is the process of transferring partially soluble components of a solid to the liquid phase using a soxhlet extract.
- ❖ The solid is placed in a filter paper thimble which is then placed in to the main chamber of the soxhlet extractor.
- ❖ The solvent (heated to reflux) travels in to the main chamber and the partially soluble components are slowly transferred to the solvent.
- ❖ Soxhlet extractor is a laboratory apparatus invented by Franz von Soxhlet in the Year 1879 initially designed for the extraction of lipid from a solid material but a Soxhlet extractor is not limited to the extraction of lipids Normally a soxhlet extractor is for the extraction of compounds with limited solubility in a solvent and the impurity is insoluble in that solvent.
- ❖ If the taken compound has a significant solubility in a water, then simple water (aqueous) can be used to separate the compound insoluble substances.
- ❖ The desired substance is placed in cellulose thimble, in the extraction chamber, the extraction chamber is placed over the collecting flask, over the extraction chamber is mounted the condensation chamber. A suitable solvent is added to the distillation flask, and set up is heated. After heating the solvent boils and evaporates and advances to the condenser through the bypass side arm.
- ❖ The vapour condenses and accumulates in the thimble, and siphoned in distillation flask
- ❖ And the process is repeated continuously depending upon the substances used for the extraction
- ❖ The main advantages of Soxhlet extraction is that it is a continuous process.



**A PROJECT REPORT ON**  
**PHYTOCHEMICAL ANALYSIS AND FLAME PHOTOMETRY**  
**STUDIES OF INULA RECEMOSA**

A project is submitted for the partial fulfilment of the award of the degree of  
**THE MASTER OF SCIENCE IN ORGANIC CHEMISTRY**



**SUBMITTED BY**

**PALLAVI. BATTU (Reg No:21OCH006)**  
**SAI DURGA PRASAD. BATTULA (Reg No:21OCH007)**  
**LOHITHA SHINY.CHINTHA (Reg No:21OCH008)**  
**ROSHINI.CHIRUMAMILLA (Reg No:21OCH009)**

**Guided By**

**Dr. G. KRISHNAVENI** *M.Sc., A.P.SET., M.Phil., Ph.D.*  
Head of Department of chemistry

ISO: 9001-2015 certified

Re-accredited at 'A' by NAAC

**DEPARTMENT OF CHEMISTRY**  
**KAKRAPARTI BHAVANARAYANA COLLEGE(A)**  
**VIJAYAWADA-520001**

**2021 – 23**

**KAKARAPARTI BHAVANARAYANA COLLEGE(A)**

**A COLLEGE WITH POTENTIAL FOR EXCELENCE(CPE)  
ACCREDITATION WITH A GRADE IN CYCLE 3 BY NACC**



**CERTIFICATE**

This is to certify that this project work entitled “PHYTOCHEMICAL ANALYSIS & FLAME PHOTOMETRY STUDIES OF INULA RECEMOSA” And the work is done by PALLAVI. BATTU (Reg No:21OCH006); SAI DURGA PRASAD. BATTULA (Reg No:21OCH007); LOHITHA SHINY.CHINTHA (Reg No:21OCH008) and ROSHINI. CHIRUMAMILLA (Reg No:21OCH009) of final year of M.Sc chemistry in the partial fulfilment of the award of Master’s Degree as a part of the curriculum of “KRISHNA UNIVERSITY” for the academic year 2021-2023.

*A. Venkatesh*

**LECTURER INCHARGE**

*A. Venkatesh*

**HEAD OF THE DEPARTMENT**

**Head of the Department of Chemistry  
Kakaraparthi Bhavanarayana College  
VIJAYAWADA**

*A. Venkatesh*  
**EXTERNAL EXAMINAR**

## DECLARATION

I hereby declare that the project work entitled "**PHYTOCHEMICAL ANALYSIS & FLAME PHOTOMETRY STUDIES OF INULA RECEMOSA**" At VIJAYAWADA, KRISHNA Dt. A.P, INDIA., submitted to the K.B.N PG COLLEGE affiliated to **KRISHNA UNIVERSITY**, has been done by me under the guidance of **Dr . G. KRISHNAVENI** *M.Sc., A.P.SET., M.Phil, Ph.D.* During the period of study in the college and that it has not formed the basis for the award of the degree/diploma of other similar title to any candidate of university.

VIJAYAWADA,

Date;



Signature of the candidate.

B. Pallavi  
CH. Lokitha Shiny  
CH. Roslini

COMMUNITY SERVICE PROJECTS  
(FOR REFERENCE)

# A PROJECT WORK

SUBMITTED TO

THE CHEMISTRY DEPARTMENT

KBN COLLEGE, VIJAYAWADA

ON

**"DETECTION OF ADULTERANTS IN FOOD  
MATERIALS AT HOME"**



**SUBMITTED BY:**

S. HARIKA BHAVANI (203827)

P.SAI DIVYA (203829)

P. LAKSHMI DURGA (203830)

R.T.L.G. MANOJNA (203831)

V.APARNA (203836)

**UNDER THE GUIDANCE OF:**

**DR. G. KRISHNAVENI**

ASSOCIATE PROFESSOR

DEPARTMENT OF CHEMISTRY

KBN COLLEGE, VIJAYAWADA.

## DECLARATION

We hereby declare that The Community Service Project entitled "DETECTION OF ADULTERANTS IN FOOD MATERIALS AT HOME" submitted to the Department of Chemistry, K.B.N COLLEGE affiliated to KRISHNA UNIVERSITY, has been done by us under the guidance of DR. G. KRISHNAVENI, Head, Department, Chemistry, during the period of February-March, 2022 after 1st year examinations. We further declare that this project or any part of it has not been submitted elsewhere for any other class.

Date:

Signature of the Candidates

S. H. P.

P. Durga

P. Laxshmi Durga

R. Manoj

V. Anu

# KAKARAPARTI BHAVANARAYANA COLLEGE

DEPARTMENT OF CHEMISTRY

## CERTIFICATE



The Community Service Project entitled "DETECTION OF ADULTERANTS IN FOOD MATERIALS AT HOME" being submitted by R.T.L.G. Manojna , bearing Roll No. 203831, P. Divya , bearing Roll No. 203829, V. Aparna, bearing Roll No. 203836, S. Harika Bhavani, bearing Roll No. 203827 and P. Lakshmi Durga, bearing Roll No. 203830 completed their first Internship after 1st year examinations.

LECTURER INCHARGE

HEAD OF THE DEPARTMENT

## ACKNOWLEDGEMENT

We would like to express our greatest gratitude to the people who have helped & supported us throughout our project. We are grateful to our teacher, **DR.G. KRISHNAVENI** for her continuous support for the project, from initial advice & contacts in the early stages of conceptual inception & through ongoing advice & encouragement to this day.

I also express my gratitude to Dr. T. Bhagya Kumar, Sri K.P.T. Vijay Bhaskar and Smt. O. Sailaja, lecturers, Department of Chemistry for their support and encouragement in completing this project.

We wish to thank our parents for their undivided support and interest who inspired us and encouraged us to go on our way, without whom we would be unable to complete our project. Finally, a special thanks to our project team.

R.T.L.G. Manojna

P. Sai Divya

V. Aparna

P. Lakshmi Durga

S. Harika Bhavani

## CONTENTS

1. Aim and objective of the study
2. Introduction
3. Problem specification
4. Problems taken up
5. Problem analysis
6. Methodology
7. Recommendations and conclusions
8. References

## **AIM AND OBJECTIVE OF THE STUDY:**

Food adulterants are cheaper substances that are added to food and thereby adversely affect the nature and quality of the food. Some adulterants are found to be hazard to human health especially if consumed over a long period. Un-permitted food additives or permitted food additives added in excess; both can cause serious damage to health. The use of artificial colours like Orange II affects growth and affects the functioning of vital organs like the liver, kidneys, heart spleen, lungs, bones and the immune systems. The commonly used metanil yellow could be injurious to the stomach, ileum, rectum, liver, kidney, ovary and testis. All the non-permitted colours can also bring changes in genes, mostly it has been identified as potential cancer-causing agents. Recently, a major Indian supplier was caught and had to destroy tons of turmeric for dangerous adulteration using metanil yellow and red oxide of lead – which is highly carcinogenic.

## **INTRODUCTION:**

Adulteration of food commonly defined as “the addition or subtraction of any substance to or from food, so that the natural composition and quality of food substance is affected”. Adulteration is either intentional by either removing substances to food or altering the existing natural properties of food knowingly. Unintentional adulteration is usually attributed to ignorance’s, carelessness or lack of facilities for maintaining food quality.

## TYPES OF ADULTERANTS:

Type	Substances Added
Intentional Adulterants	Sand, marble chips, stones, mud, other filth, talc, chalk powder, water, mineral oil and harmful colour.
Incidental adulterants	Pesticide residues, droppings of rodents, larvae in foods.
Metallic contaminants	Arsenic from pesticides, lead from water, effluent from chemical industries, tin from cans.

### POISONOUS OR DELETERIOUS SUBSTANCES:

Generally, if a food contains a poisonous or deleterious substance that may render it injurious to health, it is adulterated. For example, apple cider contaminated with E.coli O157:H7 and Brie cheese contaminated with *Listeria monocytogenes* are adulterated.

If a food contains a poisonous substance in excess of a tolerance, regulatory limit, or action level, mixing it with "clean" food to reduce the level of contamination is not allowed. The deliberate mixing of adulterated food with good food renders the finished product adulterated.

### FILTH AND FOREIGN MATTER:

Filth and extraneous material include any objectionable substances in foods, such as foreign matter (for example, glass, metal, plastic, wood, stones, sand, cigarette butts), undesirable parts of the raw plant material (such as stems, pits in pitted olives, pieces of shell in canned oysters), and filth (namely, rot, insect and rodent parts, excreta, decomposition).

## **PROBLEM SPECIFICATION:**

How can Adulteration be Prevented?

According to the National Health Service and Food Research Institute, several food products have been adulterated to increase the quantity and make more profit. This practice of adding adulterants to food products are quite common in all in developing countries and other backward countries.

Every year, the 7th of April is celebrated as the World Health Day globally and as per the reports, WHO aims to bring a general awareness about the adulterations of food products, motivate and inspire everybody to have a healthy, balanced diet.

**Here are certain safety tips to avoid Adulteration:**

- Avoid dark coloured, junk and other processed foods.
- Make sure to clean and store all the grains, pulses and other food products.
- Wash fruits and vegetables thoroughly in running water before they are used.
- Check if the seal is valid or not, before buying food products like milk, oil and other pouches.
- Always make sure to check and buy products having an FSSAI-validated label, along with the license number, list of ingredients, manufactured date, and its expiration.

## **PROBLEMS TAKENUP:**

**Food Adulteration- And its Impact on Our Health:**

To define it simply, food adulteration marks the depreciation in the quality of food i.e. unsafe and substandard for human consumption. The quality is lowered either by the addition of inferior quality material or by the extraction of a valuable

## RECOMMENDATIONS AND CONCLUSIONS:

Indian food is incomplete without the addition of spices. If adulterated spices are consumed daily there will be a health hazard like nausea, anemia, paralysis, brain damage, abortions, insomnia, vomiting, constipation and even mental retardation. The safest way to avoid adulterated spices is to purchase properly packed spices containing either an ISI mark or an Agmark from a trusted source. If someone is selling adulterated products strict actions should be taken against them by the government. So it is also wise to purchase raw spices and grind them at home to get a powder which is real, fresh safer also.

The information on awareness of methods to avoid adverse health effects caused by food adulteration has conducted nearly 50 houses of Ambapuram village and it helps the people to understand different methods to prevent food adulteration.

## REFERENCES:

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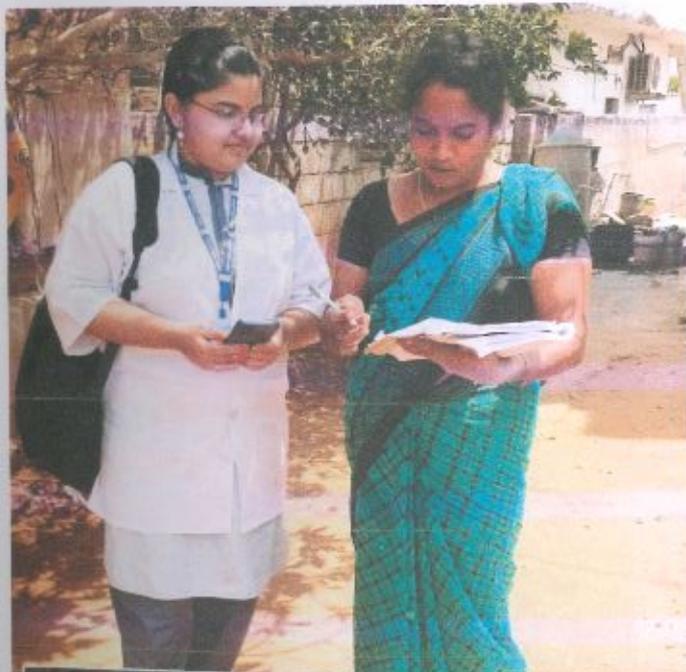
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	Monday, 14, Mar, 2022		10:59 AM



ambapuram, Andhra Pradesh, India

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ambapuram, Andhra Pradesh, India

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ambapuram, Andhra Pradesh, India

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CONFERENCES, SEMINARS, WORKSHOPS,  
GUEST LECTURES, GROUP DISCUSSIONS,  
JIGSAW PUZZLES, DEBATES, QUIZZES

## WORKSHOPS, CONFERENCES & SEMINARS DURING THE LAST FIVE YEARS

### ACADEMIC YEAR - 2018-19

TITLE	DATES	ORGANIZED BY
EMERGING TRENDS IN ORGANIC CHEMISTRY	28 <sup>th</sup> & 29 <sup>th</sup> September, 2018.	Department of Chemistry (PG & UG)
CYBER SECURITY	28 <sup>th</sup> & 29 <sup>th</sup> November, 2018.	Computer Science & Applications
MODERN METHODS & EFFECTIVENESS OF TRIBAL PROGRAMMES – SUGGEST NECESSARY MEASURES IN THE LIGHT OF FINDINGS	18 <sup>th</sup> & 19 <sup>th</sup> March, 2019.	Department of Commerce & Management
ASTHAVADHANAM	25 <sup>th</sup> June, 2018	Department of Telugu
SELF REALISATION FOR BLISSFUL LIFE & HARMONIOUS RELATIONSHIPS	30 <sup>th</sup> June, 2018	Department of Telugu
ESL CLASSROOMS: MEETING CURRICULAR AND CORPORATE GOALS	21 <sup>st</sup> August, 2018	Department of English
R – PROGRAMMING	27 <sup>th</sup> – 29 <sup>th</sup> August, 2018	Department of Mathematics & Statistics
DATA ANALYTICS USING R-PROGRAMMING	24 <sup>th</sup> & 25 <sup>th</sup> September, 2018	Department of Mathematics & Statistics
FLUID MECHANICS	4 <sup>th</sup> &5 <sup>th</sup> October, 2018.	Department of Mathematics & Statistics
BENEFITS & CHALLENGES OF INTERDISCIPLINARY RESEARCH	13 <sup>th</sup> November, 2018.	Internal Quality Assurance Cell
NANO-SCIENCE TECHNOLOGY	15 <sup>th</sup> November, 2018.	Department of Chemistry
INTELLECTUAL PROPERTY RIGHTS	23 <sup>rd</sup> November, 2018.	PG Department of Commerce & Business Administration
BIODIVERSITY CONSERVATION & HUMAN WELFARE	21 <sup>st</sup> & 22 <sup>nd</sup> December, 2018.	Department of Botany
APPLICATIONS OF QUANTUM MECHANICS TO OPTICS	1 <sup>st</sup> & 2 <sup>nd</sup> February, 2019	Department of Physics & Electronics
MOBILE APPLICATION – DEVELOPMENT WITH ANDROID	1 <sup>st</sup> & 2 <sup>nd</sup> March, 2019	PG Department of Computer Science & Applications
ITR FORM FILLING	11 <sup>th</sup> September, 2018	Department of Commerce

## ACADEMIC YEAR - 2019-20

<b>Title</b>	<b>Date</b>	<b>Organized by</b>
A Powerful & Life Changing Development Programme	7 <sup>th</sup> , 8 <sup>th</sup> & 10 <sup>th</sup> August, 2019	Internal Quality Assurance Cell
Women Entrepreneurship Development Programme for Girl Students	16 <sup>th</sup> to 31 <sup>st</sup> September, 2019	UGC Women's Studies Centre In association with Centre for Entrepreneurship Development [CED]
Importance of Nurturing Gender Sensitivity	4 <sup>th</sup> March, 2020	UGC Women's Studies Centre in association with Taruni Tanrangalu
Webinar on 'MS Office Package' (Word, Excel & PPT)	25 <sup>th</sup> to 30 <sup>th</sup> May, 2020	Department of Computer Science
Extension Lecture Programme in Physics	29 <sup>th</sup> & 30 <sup>th</sup> August, 2019	by Department of Physics in association with Centre for Continuing Education, Indian Institute of Science (IISc) Bengaluru
Tools and Techniques for Industrial Applications (TTIA-2019)	9 <sup>th</sup> – 15 <sup>th</sup> September, 2019	Department of Chemistry (UG & PG) In collaboration with Shree Icon Pharmaceutical Laboratories, Vijayawada
Workshop on "MATLAB	11 <sup>th</sup> to 13 <sup>th</sup> September, 2019	Department of Mathematics & Statistics
Workshop on "Building Communicative Competence in English Language" (BCCEL-2019)	14 <sup>th</sup> September, 2019	Department of English
Seminar on "An Impact of Developmental Programmes for Social Transformation of Scheduled Castes & Scheduled Tribes"	29 <sup>th</sup> & 30 <sup>th</sup> November, 2019	Department of Commerce & Management
Mathematics Training for Undergraduate Statistics Students (MTUSS-2019)	2 <sup>nd</sup> to 15 <sup>th</sup> December, 2019	Department of Mathematics & Statistics
Mini Physics and Talent Search Programme (PTTS)	16 <sup>th</sup> – 20 <sup>th</sup> December, 2019	Department of Physics & Electronics
Strategies for Transforming India – The Way Forward" (SFTI)	18 <sup>th</sup> & 19 <sup>th</sup> December, 2019	Department of Commerce & Management
Workshop & Exhibition on "Farmer Technology"	21 <sup>st</sup> December, 2019	Department of Botany
National Seminar on "Women: They Key to Ensure Food Security"	27 <sup>th</sup> & 28 <sup>th</sup> December, 2019	Women Empowerment Cell
Data Analytics using Python	3 <sup>rd</sup> & 4 <sup>th</sup> January, 2020	Department of Computer Science & Applications
Sensitivity, Awareness, Motivation" (Under Capacity Building of Women Managers in Higher Education)	3 <sup>rd</sup> – 9 <sup>th</sup> February, 2020	UGC Women's Studies Centre
'Intellectual Property Rights'	11 <sup>th</sup> March, 2020	Research Promotion & Monitoring Cell
Webinar on 'Data Science Using Python'	25 <sup>th</sup> & 26 <sup>th</sup> May, 2020	Department of Computer Science & Applications in association with RAK Analytics Solutions Pvt. Ltd.
Webinar on 'Impact of Lockdown on the Career Opportunities of Management & Engineering Students'	28 <sup>th</sup> May, 2020	PG Department of Commerce & Business Administration

Online Trading and Portfolio Management	31 <sup>st</sup> January, 2020	Department of MBA
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### ACADEMIC YEAR - 2020-21

Title	Date	Organized by
Four-Day National Webinar on "Impact of COVID-19 on Educational Sector in India and Strategies to face the Pandemic"	10 <sup>th</sup> – 13 <sup>th</sup> June, 2020	Internal Quality Assurance Cell (INTERNAL QUALITY ASSURANCE CELL) in collaboration with Andhra Pradesh State Council of Higher Education
Recent Trends in HR & GST	23 <sup>rd</sup> March, 2021	Department of MBA
Connect with Work' (Communication & Employability Skills Training Program by Rubicon (An Barclays Bank Initiative)	5 <sup>th</sup> to 7 <sup>th</sup> April, 2021	Placement & Guidance Cell
Changing Dimensions of Business Environment in COVID-19 Era- Strategies for formulation and Implementation	22 <sup>nd</sup> & 23 <sup>rd</sup> June, 2020	Department of Commerce & Management
Women Nutrition in Immune Response against COVID-19	25 <sup>th</sup> August, 2020	UGC Women's Studies Centre
Advances in Spectroscopy and It's Applications	15 <sup>th</sup> October, 2020	Department of Chemistry in collaboration with Department of Chemistry, IIT, Madras
An Overview of IPRs – Importance and Impact of Patents	30 <sup>th</sup> March, 2021	Research Promotion & Monitoring Cell
Discovering Statistics using 'R'	15 <sup>th</sup> to 20 <sup>th</sup> June, 2020	Department of Mathematics & Statistics

### ACADEMIC YEAR – 202021-22

Title	Date	Organized by
Deeksharambh	7 <sup>th</sup> January, 2022	Internal Quality Assurance Cell
Orientation Classes	5 <sup>th</sup> January, 2022	Department of MBA
Career Opportunities in Machine Learning	20 <sup>th</sup> November, 2021	Department of Mathematics & Statistics
WHAT NEXT' - Opportunities in Pharma Industry for Freshers	1 <sup>st</sup> August, 2021	Department of PG Chemistry & Placement & Guidance Cell
తెలుగు కథానికా రచన విధానం- మెళకువలు	27 <sup>th</sup> May, 2022	Department of Telugu
Developing Emotional Intelligence among Young Graduates	29 <sup>th</sup> & 30 <sup>th</sup> April, 2022	Department of English
MATLAB	28 <sup>th</sup> to 30 <sup>th</sup> April, 2022	Department of Mathematics & Statistics
Data Analysis Using Python	6 <sup>th</sup> to 13 <sup>th</sup> April, 2022	Department of Mathematics & Statistics

		Statistics
High Performance Liquid Chromatography and Gas Chromatography	23 <sup>rd</sup> to 26 <sup>th</sup> March, 2022	Department of Chemistry in association with Shree ICON Pharmaceuticals, Vijayawadac
Financial Education for Young Citizen	7 <sup>th</sup> & 8 <sup>th</sup> March, 2022	Departments of MBA & M.Com
Financial Education Programme	2 <sup>nd</sup> to 8 <sup>th</sup> March, 2022	Department of Commerce & Management
Intellectual Property Rights	28 <sup>th</sup> February, 2022	Research Promotion & Monitoring Cell and Internal Quality Assurance Cell in association with Patent Office, Chennai
Social Innovation & Entrepreneurship in India	25 <sup>th</sup> & 26 <sup>th</sup> February, 2022	Department of Commerce & Management
Synthetic Strategies	10 <sup>th</sup> January, 2022	Department of PG Chemistry in association with G.S. Phyto Labs P.L.C, Guntur
Microsoft Power Business Intelligence using Microsoft Excel Power Pivot	6 <sup>th</sup> January, 2022	Departments of MBA & M.Com
The Convergence of Biologists	27 <sup>th</sup> December, 2021	Department of Zoology
IoT with Raspberry PI	20 <sup>th</sup> to 22 <sup>nd</sup> December, 2021	Department of Physics & Electronics
Digital Marketing	16 <sup>th</sup> to 18 <sup>th</sup> December, 2021	Department of MBA
Game Design	15 <sup>th</sup> to 19 <sup>th</sup> November, 2021	Department of Computer Science & Applications
Nano Materials & Their Applications	3 <sup>rd</sup> August, 2021	Department of Chemistry in collaboration with Krishna University, Machilipatnam
Emerging Trends in Computer Science	24 <sup>th</sup> July, 2021	Department of Computer Science in collaboration with Krishna University, Machilipatnam
Role of Analytics in Talent Management	3 <sup>rd</sup> July, 2021	Department of Commerce & Management in collaboration with Krishna University, Machilipatnam
Waste Management Methods	6 <sup>th</sup> October, 2021	UGC Women's Studies Centre

### ACADEMIC YEAR – 2022-23

Title	Date	Organized by
Python for Data Analysis	5 <sup>th</sup> to 10 <sup>th</sup> January, 2023	Department of Mathematics & Statistics
PCB Design	9 <sup>th</sup> & 10 <sup>th</sup> December, 2022	Department of Physics & Electronics
Financial Literacy for Young Citizen	5 <sup>th</sup> December, 2022 to 21 <sup>st</sup> January, 2023	Commerce and Management
Mathematical Models	2 <sup>nd</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> December, 2022	Department of Mathematics & Statistics
Blockchain and It's Applications	29 <sup>th</sup> & 30 <sup>th</sup> November, 2022	Department of Computer Science & Applications in collaboration with

		APSCHE
Clinical Research	19 <sup>th</sup> , 21 <sup>st</sup> & 22 <sup>nd</sup> November, 2022	Department of PG Chemistry in collaboration with CAVAXION Clinical Research Pvt. Ltd., Vijayawada
Youth for Climate Action	11 <sup>th</sup> November, 2022	NSS Units in association with National Institute of Disaster Management, New Delhi
Recent Advances in Biological Sciences	28 <sup>th</sup> & 29 <sup>th</sup> October, 2022	Departments of Botany & Zoology
Devops Core & Cloud Integration	14 <sup>th</sup> & 15 <sup>th</sup> October, 2022	Department of Computer Science & Applications
Customization of Commercialized Agricultural Drones		Department of physics and electronics in association with Fopple Technologies Pvt. Ltd., Kanikipadu
Think, Make, Break, Repeat	6 <sup>th</sup> , 11 <sup>th</sup> , 19 <sup>th</sup> July and 8 <sup>th</sup> August, 2022	in association with ACIC-KL Startups Foundation
Gender Sensitization	8 <sup>th</sup> December, 2022	UGC Women's Studies Centre
Indian Independence Movement Progress in Women's Equality	12 <sup>th</sup> August, 2022	UGC Women's Studies Centre

## GUEST LECTURES DURING THE LAST FIVE YEARS

### ACADEMIC YEAR - 2018-19

TITLE	DATES	ORGANIZED BY
Logistics Management	2nd July, 2018	Department of Commerce (Logistics)
Entrepreneurial Development	13 <sup>th</sup> July, 2018	Department of MBA
Open Source Technologies	6 <sup>th</sup> August, 2018	Department of computer science and applications
Artificial Intelligence	12 <sup>th</sup> August, 2018	Department of computer science and applications
Chemical Sensors for Speciation Studies	16 <sup>th</sup> August, 2018	Department of Chemistry (UG & PG)
Role of MBA in the Development of a Country	17 <sup>th</sup> August, 2018	by Department of MBA
Discover strength & Succeed through your Strengths	25 <sup>th</sup> August, 2018	Department of MBA
Business Analytics	7 <sup>th</sup> & 8 <sup>th</sup> September, 2018	Department of MBA

Importance of Hindi	14 <sup>th</sup> September, 2018	Department of Hindi
Nuclear Magnetic Resonance Spectroscopy	18 <sup>th</sup> September, 2018	Department of PG Chemistry
Graph Theory	28 <sup>th</sup> September, 2018	Department of M.C.A. & M.Sc.(CS)
Internet of Things	23 <sup>rd</sup> October, 2018	Department of Physics & Electronics
Chemistry in Biology	24 <sup>th</sup> October, 2018	Department of PG Chemistry
Digital Marketing	26 <sup>th</sup> October, 2018	Department of MBA
Meet the Entrepreneur	13 <sup>th</sup> February, 2019	Department of Commerce
మన భాష - మన శాస్త్రం	19 <sup>th</sup> February, 2019	Department of Telug
Cyber Security	11 <sup>th</sup> March, 2019	Department of M.C.A. & M.Sc(CS)

### ACADEMIC YEAR – 2019-20

Title	Date	Organized by
Latest Trends in Logistics & Supply Chain Management	22 <sup>nd</sup> June, 2019	Department of Logistics
Environmental Foot Prints & Sustainable Development	22 <sup>nd</sup> June, 2019	Department of Zoology
Use of Medicinal Plants in Present Scenario	13 <sup>th</sup> July, 2019	Department of Botany
Guest Lecture on “Presentation Skills”	15 <sup>th</sup> July, 2019	Department of English
Guest Lecture on “Chemical Kinetics”	22 <sup>nd</sup> July, 2019	by Department of Chemistry (UG & PG)
Guest Lecture on “Young Entrepreneur”	25 <sup>th</sup> & 27 <sup>th</sup> July, 2019	Department of BBA
Guest Lecture on “Management of Dairy Animals”	27 <sup>th</sup> July, 2019	Department of Zoology
Guest Lecture on “Home Automation”	27 <sup>th</sup> July, 2019	Department of Physics & Electronics
Guest Lecture on “Advanced Separation Methods”	2 <sup>nd</sup> August, 2019	Department of PG Chemistry
Guest Lecture on “HR OPERATIONS”	26 <sup>th</sup> August, 2019	Department of BBA
Guest Lecture on “Seven Principles of Success”	27 <sup>th</sup> August, 2019	Department of MBA
Interactive Session with Dr. M. Nethaji	29 <sup>th</sup> August, 2019	Department of PG Chemistry
Guest Lecture on “Enzymes in Biological Processes”	30 <sup>th</sup> August, 2019	Department of Zoology
Guest Lecture on “Chromatographic Techniques”	30 <sup>th</sup> August, 2019	Department of PG Chemistry
Invited Talk on “National Education	7 <sup>th</sup> September, 2019	Internal Quality Assurance Cell

Policy – 2019”		
Guest Lecture on “Career Vision & Mind Set”	9 <sup>th</sup> September, 2019	Department of MBA & M.Com
Guest Lecture on “Parcel Operation in India Post”	11 <sup>th</sup> September, 2019	Department of Logistics
Guest Lecture on “राष्ट्रीय एकता - हिंदी की देन” (Rashtriya Ekata – Hindi kee Den) in view of Hindi Day	14 <sup>th</sup> September, 2019	Department of Hindi
Guest Lecture on “Career Guidance & Fundamentals of Programming”	14 <sup>th</sup> September, 2019	Department of MCA & M.Sc. (CS)
Guest Lecture on “Page Rank: A Query Dependent Modification and Its computation”	1 <sup>st</sup> October, 2019	Department of Mathematics & Statistics
Guest Lecture on “SEBI”	3 <sup>rd</sup> October, 2019	Department of MBA
Guest Lecture on “Human Rights in Society”	15 <sup>th</sup> October, 2019	Department of MBA
Guest Lecture on “Know Your Goals”	2 <sup>nd</sup> November, 2019	Department of MBA
Guest Lecture on “Entrepreneurship Development”	18 <sup>th</sup> November, 2019	Department of MBA
Guest Lecture on “Nanoparticles in Liquid Crystals & Liquid Crystalline Nanoparticles”	18 <sup>th</sup> November, 2019	Department of Physics & Electronics
Alumni Guest Lecture on “Generation of OTP”	22 <sup>nd</sup> November, 2019	by Department of M.Sc. (CS) & MCA
Guest Lecture on “Robotics Process Automation”	17 <sup>th</sup> December, 2019	Department of M.Sc. (CS) & MCA
Guest Lecture on “Time Management”	27 <sup>th</sup> December, 2019	Department of BBA
Guest Lecture on “Consumer Awareness”	28 <sup>th</sup> December, 2019	Consumer Club
Guest Lecture on “2D NMR Spectroscopy”	4 <sup>th</sup> January, 2020	Department of PG Chemistry
Guest Lecture on “Life Skills”	6 <sup>th</sup> January, 2020	Department of Commerce
Guest Lecture on “HR-Industry Expectations”	10 <sup>th</sup> January, 2020	Department of MBA
Guest Lecture on “Leadership in the Era of Social Media”	23 <sup>rd</sup> January, 2020	Department of MBA
Guest Lecture on “Python Programming”	29 <sup>th</sup> January, 2020	Department of MCA & M.Sc. (CS)
“Sales and Operations Planning”	1 <sup>st</sup> February, 2020	Department of BBA
Technical English for Professional Aspirants	1 <sup>st</sup> February, 2020	Department of English
Machine Learning	5 <sup>th</sup> February, 2020	Department of Computers
Innovation Ideas	5 <sup>th</sup> February, 2020	Department of Physics & Electronics
Machine Learning	6 <sup>th</sup> February, 2020	Department of Mathematics & Statistics
Stereo Chemistry	on 10 <sup>th</sup> February, 2020	Department of Chemistry
Numerical Analysis	11 <sup>th</sup> February, 2020	Department of Mathematics & Statistics

Machine Learning	13 <sup>th</sup> February, 2020	Department of MCA & M.Sc. (CS)
Artificial Intelligence	14 <sup>th</sup> February, 2020	Department of Computers
మానవాభ్యున్నతికి మాతృభాష - ఆవశ్యకత	17 <sup>th</sup> February, 2020	Department of Telugu
Human Values	18 <sup>th</sup> February, 2020	Department of Hindi
తెలుగు భాషా పరిరక్షణలో జానపద సాహిత్యము	20 <sup>th</sup> February, 2020	Department of Telugu
Legal Awareness	22 <sup>nd</sup> February, 2020	Consumer Club
Budget and Its Context	24 <sup>th</sup> February, 2020	Department of MBA
Career in Logistics and Supply Chain Management	29 <sup>th</sup> February, 2020	Department of Logistics
Consumer Awareness	16 <sup>th</sup> March, 2020	Consumer Club
NMR Spectroscopy	30 <sup>th</sup> May, 2020	Department of PG Chemistry

### ACADEMIC YEAR – 2020-21

<b>Title</b>	<b>Date</b>	<b>Organized by</b>
Sales and Distribution	6 <sup>th</sup> June, 2020	Department of MBA
Methods for Determining Reaction Mechanism	8 <sup>th</sup> June, 2020	Department of PG Chemistry
Changing Priorities of Residential, Commercial and Industrial Markets	15 <sup>th</sup> June, 2020	Department of MBA
IR Spectroscopy	16 <sup>th</sup> June, 2020	Department of PG Chemistry
Consumer Behavior and Marketing Research	19 <sup>th</sup> June, 2020	Department of MBA
Strategic Management	23 <sup>rd</sup> June, 2020	Department of MBA
Importance of Natural Products and their contribution to health and Society	26 <sup>th</sup> June, 2020	Department of PG Chemistry
Share 2020 Academic View by using Google Meet App	8 <sup>th</sup> July, 2020	Internal Quality Assurance Cell
COVID-19 Pandemic: Clinical Advice & Future Considerations	15 <sup>th</sup> July, 2020	UGC Women's Studies Centre
Biotechnology & Its Applications	21 <sup>st</sup> July, 2020	Department of Zoology
Career in Software Industry	25 <sup>th</sup> July, 2020	Departments of MCA & M.Sc. (CS)
White Ribbon Day	25 <sup>th</sup> November, 2020	UGC Women's Studies Centre
Data Science Career Opportunities	1 <sup>st</sup> December, 2020	Department of Computers
Applications of Renewable Energy	18 <sup>th</sup> December, 2020	Department of Physics & Electronics
Personal Grooming in Professional Development for Corporate Sector	28 <sup>th</sup> December, 2020	Departments of MCA & M.Sc. (CS)
Building next generation Leadership - Challenges in today's Global Business Era	28 <sup>th</sup> December, 2020	Departments of MBA & M.Com
Carboxylic Acids	28 <sup>th</sup> December, 2020	Department of UG Chemistry

Computational Chemistry	2 <sup>nd</sup> January, 2021	Department of PG Chemistry
Importance of Payroll Management in HR	18 <sup>th</sup> January, 2021	Placement & Guidance Cell
Economic Issues and Challenges during and after COVID-19	19 <sup>th</sup> January, 2021	Department of MBA
Wireless High Speed Data Transmission in Network	23 <sup>rd</sup> January, 2021	Department of Computer Science & Applications
తెలుగు భాషా అభ్యున్నతి అంతర్జాతీయ మాతృ భాషాచిన్తోత్సవాన్ని పురస్కరించుకొని	20 <sup>th</sup> February, 2021	Department of Telugu
Communication Skills: The need of the Hour in the Present Job market'	22 <sup>nd</sup> February, 2021	Department of English
How Physics helps in IT?	27 <sup>th</sup> February, 2021	Department of Physics & Electronics

### ACADEMIC YEAR – 2021-22

Title	Date	Organized by
Ring Cavity Spectroscopy	2 <sup>nd</sup> June, 2022	Department of Chemistry
Innovations & Start-Up	11 <sup>th</sup> May, 2022	Department of Physics & Electronics
Stereochemistry	12 <sup>th</sup> May, 2022	Department of PG Chemistry
How to Plan for Startups	1 <sup>st</sup> April, 2022	Department of Commerce & Management
Puzzles to Puzzle You	22 <sup>nd</sup> March, 2022	Department of Mathematics & Statistics
Digital Image Processing	17 <sup>th</sup> March, 2022	Department of Computer Science
Consumer Rights	15 <sup>th</sup> March, 2022	Consumer Club
Current Trends in Capital Markets and Importance of due Diligence in Investing	9 <sup>th</sup> March, 2022	Department of MBA
Block Chain Technologies	5 <sup>th</sup> March, 2022	Departments of MCA & M.Sc. (CS)
Emerging Technologies in Electronics & IoT	19 <sup>th</sup> February, 2022	Department of Physics & Electronics
తెలుగు భాషా పరిరక్షణ – ఆవశ్యకత	21 <sup>st</sup> February, 2022	Department of Telugu
Business Analytics and Research Methodology	17 <sup>th</sup> February, 2022	Department of MBA
Big Data Analytics	11 <sup>th</sup> February, 2022	Department of MCA
సామాజిక అసమానతల నిర్మూలన - కందుకూరివారి పాత్ర	31 <sup>st</sup> January, 2022	Department of Telugu
The Importance of Word Stress and Intonation in Spoken English	24 <sup>th</sup> January, 2022	Department of English
Principal Component Analysis	31 <sup>st</sup> December, 2021	Department of Computer Science
Learning Algorithms	30 <sup>th</sup> December, 2021	Departments of MCA & M.Sc. (CS)
Sahity ki Mahatta	30 <sup>th</sup> December, 2021	Department of Hindi
Biodiversity Conservation	28 <sup>th</sup> December, 2021	Department of Botany
Current Research Opportunities in	18 <sup>th</sup> December, 2021	Department of PG Chemistry

Material Science – A Backbone in Modern Technology		
Enhancing Conversational Skills	16 <sup>th</sup> December, 2021	Department of English
Role and Importance of Renewable Energy Technologies in Contemporary World	14 <sup>th</sup> December, 2021	Department. of Physics
Digital Marketing	6 <sup>th</sup> December, 2021	Departments of MBA & M.Com
Bioinorganic Chemistry	29 <sup>th</sup> November, 2021	Department of Chemistry
Applications of Real Analysis	26 <sup>th</sup> November, 2021	Department of Mathematics & Statistics
5G Mobile Technologies & Internet of Things	18 <sup>th</sup> November, 2021	Department of Physics & Electronics
Objectives & Importance of Logisticsc	17 <sup>th</sup> November, 2021	Department of Commerce & Management
Cancer-Genetics and Epigenetics Aspects	10 <sup>th</sup> November, 2021	Department of Zoology
Pattern Recognition	3 <sup>rd</sup> November, 2021	Departments of MCA & M.Sc. (CS)
Applications of Differential Equations	20 <sup>th</sup> September, 2021	Department of Mathematics & Statistics
Corporate Finance: Concepts and Applications in the Context of Managerial Decision Making	17 <sup>th</sup> September 2021	Departments of MBA & M.Com
Big Data Analytics	9 <sup>th</sup> September, 2021	Departments of MCA and M. Sc. (CS)
Maximising productivity 'N' Achieving Success	8 <sup>th</sup> September, 2021	Department of Commerce and Management
Organometallic Chemistry	4 <sup>th</sup> September, 2021	Department of PG Chemistry
Strategies to improve Reading and Speaking Competence	31 <sup>st</sup> August, 2021	Department of English
Embedded Systems & Programming	21 <sup>st</sup> August, 2021	Department of Physics & Electronics
Conceptualizing Effective Strategies for Speaking Efficacy	10 <sup>th</sup> July, 2021	Department of English
Advances in Statistics	29 <sup>th</sup> June, 2021	Department of Mathematics & Statistics
Savings & Investment Avenues	22 <sup>nd</sup> June, 2021	Department of MBA in collaboration with United Training Services India

## ACADEMIC YEAR – 2022-23

Title	Date	Organized by
Intellectual Property Rights	26 <sup>th</sup> May, 2023	Department of MBA
Statistical Activities in the Country & Job Prospects	24 <sup>th</sup> February, 2023	Department of Mathematics & Statistics in association with NSSO
Advances in Nano Materials Research – Career Opportunities	22 <sup>nd</sup> February, 2023	Department of Chemistry
Recent Approaches in Natural Products Research for Drug Discovery	1 <sup>st</sup> February, 2023	Department of PG Chemistry
Students-Cultural Development	29 <sup>th</sup> January, 2023	Dramatic Association
Students –Scientific Thinking	30 <sup>th</sup> January, 2023	National Service Scheme
Contemporary Technologies and Various Certifications for Career Advancement	21 <sup>st</sup> January, 2023	Department of MCA
Disconnection Approach	20 <sup>th</sup> January, 2023	Department of Chemistry
Intellectual Property Rights	10 <sup>th</sup> January, 2023	Department of Commerce & Management in collaboration with IQAC
Intellectual Property Rights	4 <sup>th</sup> January, 2023	Department of Mathematics & Statistics
Intellectual Property Rights	31 <sup>st</sup> December, 2022	Department of Computer Science & Applications
Eat Right be Nutritionally Aware	15 <sup>th</sup> December, 2022	Department of Zoology
Nanomaterials for Solar Energy Harvesting Applications	14 <sup>th</sup> December, 2022	Department of Physics & Electronics
Science and Technology for Advancement in Healthcare	31 <sup>st</sup> October, 2022	Department of PG Chemistry
Amazon Web Services	21 <sup>st</sup> October, 2022	Department of Computer Science
Reaching Greater Heights in Life	11 <sup>th</sup> October, 2022	Counselling & Psychological Wellbeing Centre & UGC Women' Studies Centre
Mental Health – Wellbeing	10 <sup>th</sup> October, 2022	UGC Women's Studies Centre in association with Inner Wheel District 302, Jeevena
Experiential Marketing	28 <sup>th</sup> September, 2022 & 29 <sup>th</sup> September, 2022	Department of MBA
Rashtra Basha Evam Rajya Basha Ki Garima	14 <sup>th</sup> September, 2022	Department of Hindi
Metal Complexes in Medicine: An Overview	9 <sup>th</sup> September, 2022	Department of PG Chemistry
తెలుగుభాషా మాధుర్యం	29 <sup>th</sup> August, 2022	Department of Telugu
Career in Statistics	20 <sup>th</sup> August, 2022	Department of Mathematics & Statistics
Major Inhibitors for Entrepreneurial Growth	21 <sup>st</sup> August, 2022.	Department of MBA
Angel Investment/VC Funding	16 <sup>th</sup> August, 2022	Department of Commerce and

Opportunities for Early Stage Entrepreneurs		Management
Lean Start-Up & Minimum Viable Product / Business'	16 <sup>th</sup> August, 2022	Department of Commerce and Management
Intellectual Property Rights	13 <sup>th</sup> August, 2022	Department of MBA



# KAKRAPARTI BHAVANARAYANA COLLEGE

(Sponsored by S.K.P.V.V. Hindu High Schools' Committee) Kothapeta, Vijayawada - 520 001.

(AUTONOMOUS)

A College with Potential for Excellence (CPE), 3.5 Star Rating in Innovations & Start-Ups by MoE, Recognized as Band PERFORMER in ARIIA by Ministry of Education, Govt. of India.

SKPVV  
INSTITUTIONS  
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## TEACHING - LEARNING - INNOVATIVE METHODS

### 2022-2023

DEPARTMENT OF *PA. Chemistry.*



## JIGSAWS

**Topic :** *Separation methods.*

**Submitted Group:**

**Date:** *9-11-2022.*

*O. Saralaya*  
**LECTURER INCHARGE**

## **Separation Methods**

Many of the materials around us are mixtures. These mixtures have two or more substances mixed in them. It may not be possible to use a mixture as such in homes and industries. Different substances in a mixture possess different properties like size, hardness, density, solubility, texture, weight, etc. These differences in their physical properties are used to separate them from a mixture.

Depending on the type of mixture, different methods of separation are used. Some of the common methods of separation are;

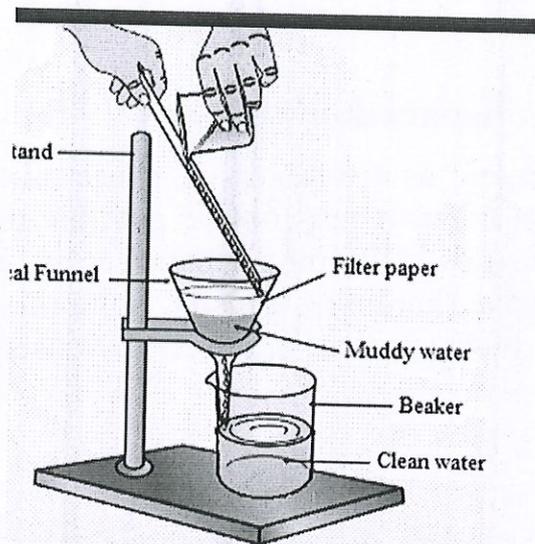
1. Filtration
2. Hand-picking
3. Threshing
4. Winnowing
5. Sieving
6. Sedimentation and decantation
7. Magnetic separation
8. Centrifugation
9. Evaporation
10. Distillation

### **Filtration**

Filtration is the process of separating insoluble solids from a liquid mixture by using a filter. The filter could be in the form of a strainer, a sieve, a muslin cloth or filter paper.

### **Filtration Process**

The insoluble solid mixture and the liquid are poured into a filter paper cone fixed in a funnel by using a glass rod as a guide. The liquid flows through the filter paper and collects in the beaker beneath the funnel. Solid particles do not pass through the filter paper and remain on it. The solid substance left behind on the filter paper is called the residue. The clear liquid obtained is called filtrate. In this way, a mixture of insoluble solids in a liquid is separated into a solid and clear liquid.



## Applications of Filtration

When boiling tea is poured over a strainer, the tea leaves remain in the strainer and tea gets collected in the cup below. This process of separation of tea leaves from the prepared tea is called filtration. In this, the strainer acts as a filter.

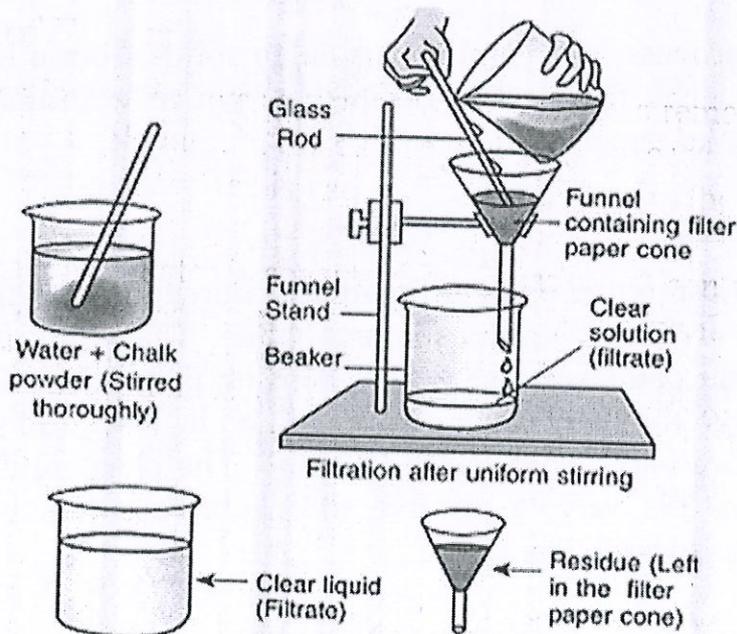
A mixture of chalk and water is separated by filtration. When a mixture of chalk and water is poured on the filter paper fixed in a funnel, then clear water passes through the filter paper and collects as filtrate.

A mixture of sand and water can also be separated by filtration.

Filtration is also used for separating paneer.

Fruit pulp and seeds can be separated from the fruit juice by using a sieve.

For lab experiments, filter paper is used as a filter.



## **Hand-picking**

Hand-picking means taking it out by hand. Hand-picking is a method of manually separating small substances visible to the naked eye from a mixture. It is used to separate substances that differ in size, shape, or colour and that can be picked up by hand because they are typically present in small quantities.

For example, the hand-picking method is used to separate small stones from food grains like pulses, rice and wheat. The pieces of stone are picked up from the food grains by hand and thrown away.

## **Threshing**

Threshing is the process in which stalks (such as stalks of wheat, paddy, etc.) are beaten to separate grains from the stalks and from the chaff that covers the grains. The separation method is based on the fact that crop plant stalks and chaff are soft materials, whereas grains are extremely hard. Because stalk and chaff are soft, they can be broken into pieces when beaten, but the grains are unaffected.

Threshing is accomplished by holding bundles of stalks in your hands and hitting them against a hard surface. Threshing is accomplished with the assistance of bullocks or a machine known as a thresher.

## **Winnowing**

Winnowing is the method of separating heavier and lighter components of a mixture with the help of wind or blowing air.

In this process, a mixture of grain and husk is made to fall from a height with the wind blowing over it. The husk, being lighter, blows away and forms a heap some distance away. The heavier grains fall to the ground and form a separate heap.

## **Applications of Winnowing**

The winnowing method is used to separate the husk from various types of grains like wheat, rice, etc.

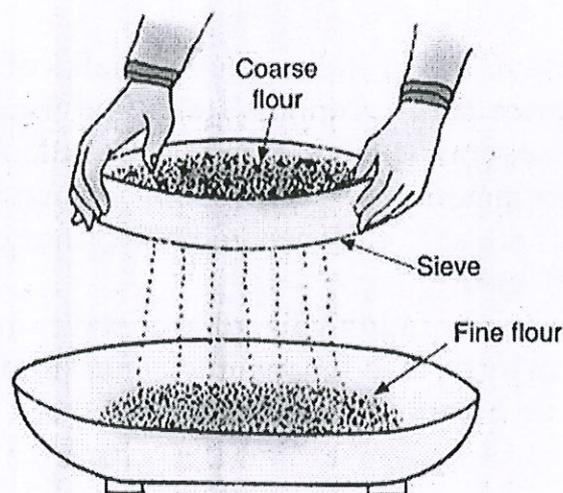
Winnowing can be used to separate sand from sawdust or sand from dried leaves. Sawdust and dried leaves being lighter get blown away by wind and form a separate heap at a distance.

## **Sieving**

Sieving is a method of separating substances of different sizes using a sieve. A sieve is a type of strainer that consists of a fine iron mesh attached to a

wooden or iron frame. The sieves could be of different sizes depending on the size of the substances to be separated. Sieving is used to separate substances that cannot be easily hand-picked due to their small size or presence in large quantities.

In the separation of substances by sieving, the mixture is placed in a sieve and the sieve is continuously moved back and forth. Smaller and finer particles pass through the holes on the sieve and can be collected below, while larger particles remain in the sieve.



### **Applications of Sieving**

The flour that we get from the flour mill has some bran mixed in a fine flour. Sieving is used to separate the bran from fine flour.

We require fine sand to be mixed with cement before plastering the walls of a house. The sieving method is used to obtain fine sand.

### **Sedimentation and Decantation**

The Sedimentation and Decantation process has been explained in detail below:

#### **Sedimentation**

Sedimentation is the process of settling down of heavier solids in water when the mixture is allowed to stand undisturbed for some time. It is used to separate insoluble solids from a solid-liquid mixture. For example, rice and pulses commonly contain small stones and dust particles. Water is added to the pulses after small stones are removed by hand. The heavier pulses settle

## Magnetic Separation

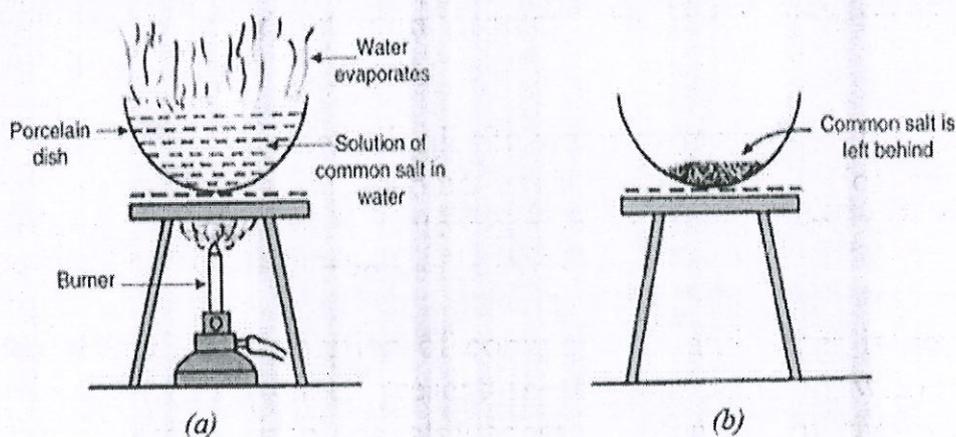
Magnetic separation means 'separation of a mixture by using a magnet'. We know that a magnet attracts iron. This property of iron is used to separate it from a mixture. For example, a magnet can be used to separate a mixture of iron filings and sulphur powder. This is because iron filings are magnetically attracted, whereas sulphur powder is not.

## Evaporation

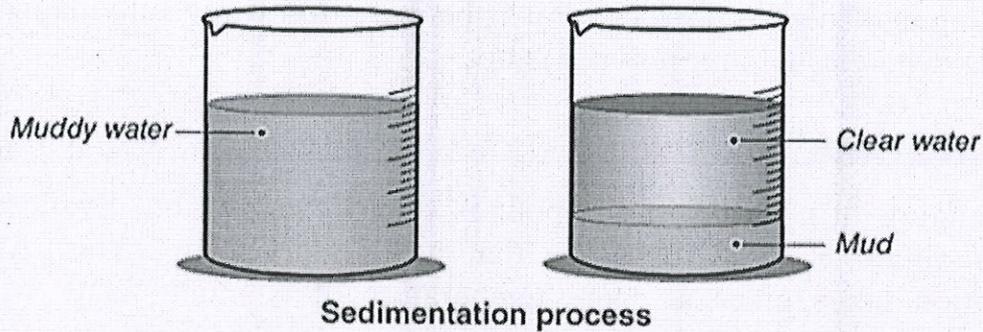
The changing of a liquid into vapour is called evaporation. Evaporation is used to obtain a solid substance that has dissolved in water. Although evaporation takes place at room temperature, it is much faster when the water is heated.

When the mixture is heated till all the water evaporates in the air, only the dissolved substance is left behind as a solid residue. For example, the common salt dissolved in water can be separated by the process of evaporation. The process involved is as follows:

In a porcelain dish, a solution of common salt and water is gently heated using a burner. The water present in the salt solution will form water vapours and escape into the atmosphere. When all of the water in the common salt solution evaporates, the common salt is left in the porcelain dish as a white solid.



down, while water with dissolved impurities from the upper layer rises. This is referred to as sedimentation. The pulses that settle at the bottom are called sediments.

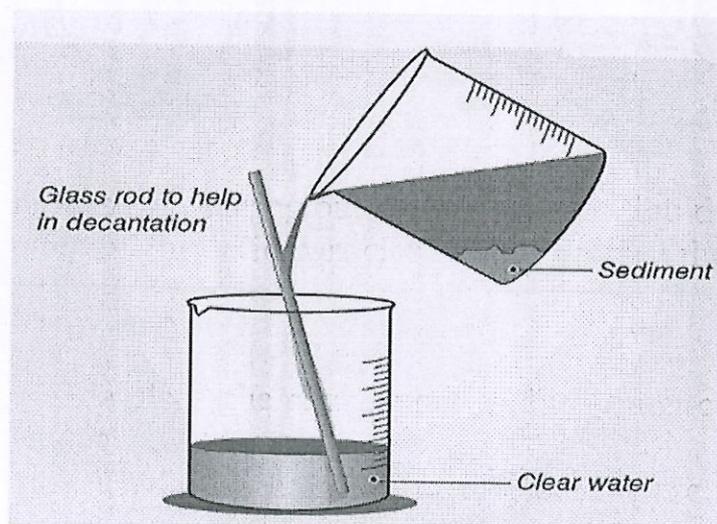


## Decantation

Decantation is a process of pouring out the top layer of liquid into a separate container leaving behind the solid particles or sediments at the bottom.

For example,

1. In cleaning rice and pulses, the pouring out of dirty water containing impurities is called decantation.
2. Decantation is also used to separate water after boiling the vegetables.

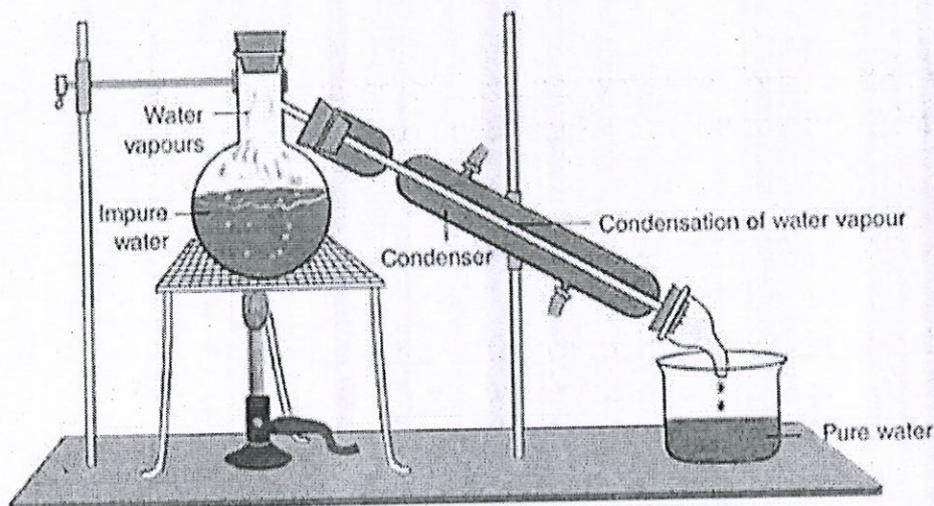


## Distillation

Distillation is the process of heating water to form water vapour and then cooling the hot water to get back liquid water. Distillation can be represented as;

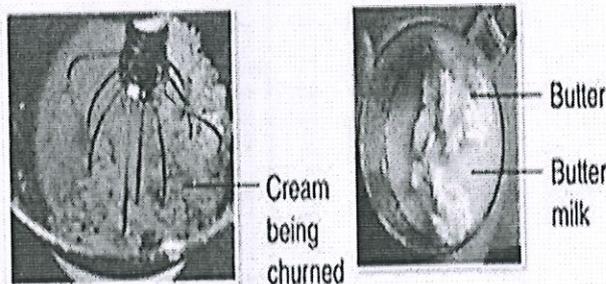
Water(Liquid)  $\xrightarrow{\text{Cooling}}$  Heating Water vapour(or steam)  $\xrightarrow{\text{Cooling}}$  Water(Liquid)  $\xrightarrow{\text{Cooling}}$  Heating Water vapour(or steam)

The changing of water into water vapour on heating is called evaporation. And the changing back of hot water vapour into liquid water on cooling is called condensation. Thus, distillation involves two processes: evaporation followed by condensation.



## Centrifugation/Churning

It is a method of separating the lighter substances from the heavier ones by churning or rotating the mixture quickly. It is a common method at home to separate butter from the cream. The cream is churned at high speed. On churning, the butter particles separate and being lighter, come on top of the liquid.





**Teaching- Learning- Innovative Methods****JIGSAWS**Class: II M.Sc (A.C.H)Date: 9-11-2022

Group A - Topic:			
S.No.	Roll No.	Student Name	Signature
1	210612	J. Manikumar	J. Manikumar
2	210605	Ch. Venkateswara Rao	Ch. Venkateswara Rao
3	210623	V. Praveen	V. Praveen
4	210617	N. Kumarao	N. Kumarao
5	210614	M. Saide Nageswarao	M. Saide Nageswarao

Group B - Topic:			
S.NO	Roll No.	Student Name	Signature
1	210611	K. Achil Sai	K. Achil Sai
2	210622	U. Durga Biva Jyothi	U. Durga Biva Jyothi
3	210606	Ch. Chandini	Ch. Chandini
4	210609	J. Sumit	J. Sumit
5	210619	P. Satyambabu	P. Satyambabu

Signature of the Lecturer

Signature of the HOD



Group C - Topic:			
S.NO	Roll No.	Student Name	Signature
1	210602	A. kalyan kumar	A. kalyan kumar
2.	210607	D. Harish	D. Harish
3.	210608	G. subrahmanyam	G. subrahmanyam

Group D - Topic:			
S.NO	Roll No.	Student Name	Signature

Signature of the Lecturer

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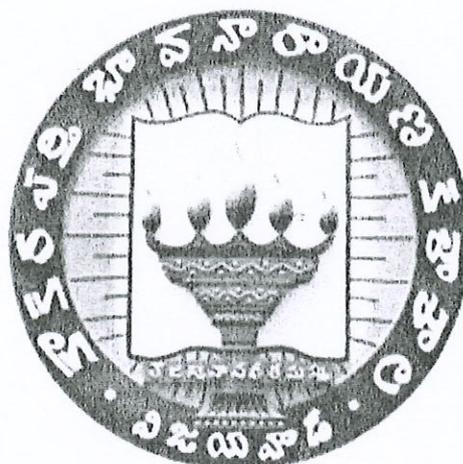
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TEACHING - LEARNING - INNOVATIVE METHODS

2022-2023

DEPARTMENT OF *Pa.chemistry.*



FLIPPED CLASSROOM

Topic : *E-2 nomenclature.*

Submitted by: *P. Madhuri -  
I.M.Sc(OCH)*

Date: *3/4/2023-*

*O. Saralaja*  
LECTURER INCHARGE

## E and Z Notation for Alkenes

### E and Z Notation for Alkenes

- Unlike C–C single bonds, C–C double bonds can't undergo rotation without breaking the pi bond
- One consequence of this is geometric isomerism – the existence of alkene stereoisomers that differ solely in how their substituents are arranged in space about the double bond
- In simple cases where there are two identical substituents on each carbon of the alkene, we can use cis– and trans– to designate the isomers where those substituents are on the same and opposite sides of the double bond, respectively.
- For geometric isomers that lack two identical substituents, we rank the two substituents on each end of the double bond according to the Cahn-Ingold-Prelog (CIP) rules.
- The Z isomer (“zusammen“, same) is the geometric isomer where the #1 ranked substituents are on the same side of the double bond. Mnemonic: “zee zame zide”
- E isomer (“*entgegen*“) is the geometric isomer where the #1 ranked substituents are on the opposite side of the double bond,

When each carbon in a double bond is attached to a hydrogen and a non-hydrogen substituent, the geometric isomers can be identified by using the cis-trans nomenclature discussed in the previous section.

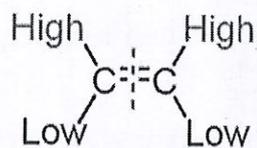
However, when a double bond is attached to three or four non-hydrogen substituents there are some examples where cis-trans nomenclature is ineffective in describing the substituents orientation in geometric isomers.

In these situations the rigorous IUPAC system for naming alkene isomers, called the E/Z system, is used.

The E/Z system analyzes the two substituents attached to each carbon in the double bond and assigns each either a high or low priority.

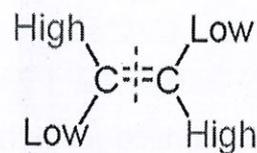
If the higher priority group on both carbons in the double bond the same side the alkene is said to have a Z isomer (from German *zusammen* = together). You could think of Z as Zame Zide to help memorize it. If the higher priority gr

oup on opposite sides the alkene has an E isomer (from German entgegen = opposite).



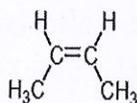
**Z Configuration**

High priority substituents are on the same side of the double bond

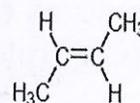


**E Configuration**

High priority substituents are on opposite sides of the double bond

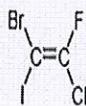


*cis*-2-butene  
(*Z*)-2-butene

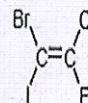


*trans*-2-butene  
(*E*)-2-butene

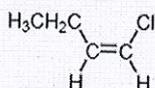
The following figure shows two isomers of an alkene with four different groups on the double bond, 1-bromo-2-chloro-2-fluoro-1-iodoethene.



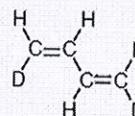
(*Z*)-1-bromo-2-chloro-2-fluoro-1-iodoethene



(*E*)-1-bromo-2-chloro-2-fluoro-1-iodoethene



(*Z*)-1-chloro-1-butene



(1*Z*,3*E*)-1,3-butadiene-1,4-*d*2

**Teaching- Learning- Innovative Methods****Flipped Classroom**Topic: E-Z nomenclatureClass: I m.sc (OCU & ACH)Date: 3/4/2023

ROLL. No.	Name of the Student	Signature
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220420	P. Madhuri	P. Madhuri
220411	G. Jayasri	G. Jayasri
220424	S. Ranya Sri	S. Ranya Sri
220406	CH. Kavya	CH. Kavya
220412	G. sai sindhu	G. Sai Sindhu
220410	G. Geetha Madhuri	G. Geetha Madhuri
220415	M. SITA chandrika	M. Sita Chandrika
220426	Sk. Shemrana	Sk. Shemrana
220429	S. Charitha Sree	S. Charitha Sree
220432	V. Supriya	V. Supriya
220428	S. Renuka	S. Renuka
220409	D. Bhavani	D. Bhavani
220615	K. Divya	K. Divya
220613	J. Ravalika	J. Ravalika
220414	M. Naveen	M. Naveen
220404	B. Sasi kiran.	B. Sasi kiran.
220607	D. Venkata Yaswanth	D. V. Yaswanth.
220402	A. Divakar Reddy	A. Divakar Reddy
220604	Ch. prasanth	Ch. prasanth
220606	D. Pra santh Rao	D. Pra santh Rao
220421	P. Abdul Rozak	P. Abdul Rozak
220611	G. MAHESH	G. Mahesh
220632	CH. keshav Rao	CH. keshav Rao
220626	T. Nikhitha Rasilin	T. Nikhitha Rasilin

Signature of Lecturer

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**TEACHING - LEARNING - INNOVATIVE METHODS**

**2022-2023**

**DEPARTMENT OF** PA. Chemistry.



**GROUP DISCUSSION**

**Topic :** The Impact of social media on our lives.

**Submitted by:** O. Sailaja.

**Date:** 7-1-2023.

**LECTURER INCHARGE**

## THE IMPACT OF SOCIAL MEDIA ON OUR LIVES

A.Sai Kumar said: Hey Everyone,

Social Networking sites are an integral part of the digital revolution. We all live in an era where we want information (academic, factual, personal) at our fingertips. Social networking sites not only serve as a medium to share resources but have transformed over a decade in boosting the economy.

With the advent of social networking sites, the life of humans has been revolutionized.

1. Social media has helped to increase awareness about their surroundings, and academics and also has directly stimulated the decision-making ability of individuals.
2. Social networking sites have also made it easier to remain connected with friends, family and loved ones. It has also made it easier to find a partner.
3. Social networking sites have provided individuals to voice their thoughts.
4. Social networking sites have provided platform support to emerging businesses for marketing and supply chain purposes.
5. Social networking sites have also had an influence on the political fate of the country and have also been a platform to solve grievances.

As the use of networking sites is mostly free, there are some potential challenges that need to be addressed on both individual and organizational levels.

1. Addiction towards usage of networking sites- this can be addressed by using application timers and self-discipline.
2. Breach of personal data- Social Networking sites collect a lot of personal data. A proper understanding of authorization requests may prevent a lot of personal data from being shared. 100 per cent data privacy still remains a challenge.
3. Use of networking sites to perpetuate false information or plot a nefarious activity- This can be controlled by continuous surveillance of the traffic by cyber authorities and application merchants. Blocking DNS or restricting IP addresses may be useful in these cases.

I personally believe that the more responsible we become to ourselves and our society the more we can address challenges and we can together reap the fruits of any new technology or invention together.

K.Gopi said:

Social Networking Site:- An endless topic to debate on. Well, we all share similar opinion/thoughts to an extent on the said topic & Here is mine-.

Social Networking- As the name clarifies itself, to connect with society, not in a physical way, but in a digital way. Ever since social platforms were created, it has really created another level of excitement among millions in every field whether it is education, entertainment, sports, or whatever. These platforms have now become a different medium of learning, getting entertained, etc.

But as we all know that every coin has its two sides and everything in this world has its pros & cons that define its origin. We "Humans" also even have pros & cons. If we have well in ourselves then we also have bad at the same time and that defines us.

These social platforms can either make someone popular overnight or it can destroy them forever.

K.Harshitha said: Good morning all of you

According to me, there is both positive and negative impact of social media. There are many platforms on social media that can be used for learning, earning, etc. Because of this we can easily access information about all things; we can also stay in touch with friends, families, or relatives. This is a positive impact.

But everything has two side's one positive & the second negative. So, it has also some negative impacts. Peoples are addicted to social media which badly effect on their life, I.e. there is a communication gap between people, many cyber threats, health issues, depression, & many more.

So Here, I am concluded that the use of social media is fully dependent on us then it is good or bad according to use.

Sk.Jainab said: Hello to all.

In my point of view, there is good and bad impacts are there from social networking sites because there is thing which is good or bad that is only on ours which means on the user's hands.

Take an example from this site is we are learning and building new skills that are a good impact but some are spreading negativity that is a bad impact. So my final conclusion is good or bad it is on user handling way.

**Teaching- Learning- Innovative Methods**

Group Discussion

Topic: The Impact of social media on our lives.

Class: I M.Sc chemistry

Date: 7/1/2023

ROLL. No.	Name of the Student	Signature
220419	P.L.N.S. Laya	P.L.N.S. Laya
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**TEACHING - LEARNING - INNOVATIVE METHODS**

**2022-2023**

**DEPARTMENT OF** *Pa-chemistry*



**ONLINE QUIZ**

**Topic :** *Periodic properties*

**Date:** *1-4-2023*

*O. Lalitha*  
**LECTURER INCHARGE**

# QUIZIZZ

Quiz Name  
Periodic Properties

Date  
Sat Apr 01 2023 8:59 AM

Hosted by  
Omni Sailaja

Average Accuracy

**68%**

Questions per Attempt

**15**

Number of Players

**20**

Players

Rank	Player Name	Avg. Time	Points	Accuracy	Correct
1	VENKATA KIRAN KUMAR ANNAPU (Kiran)	7 secs	15	100%	15 / 15
2	Geetha Madhuri (Geetha Madhuri)	19 secs	15	100%	15 / 15
3	Rajesh Kunduru (Rajesh Kunduru)	12 secs	15	100%	15 / 15
4	Rajesh Kunduru (Kunduru Rajesh)	22 secs	15	100%	15 / 15
5	surekha Manikonda (M.surekha)	10 secs	15	100%	15 / 15
6	jaya sri (jaya sri)	31 secs	15	100%	15 / 15
7	Manikanta Odugu (Manikanta)	7 secs	14	93%	14 / 15
8	parvathi priya (Parvathi priya)	138 secs	14	93%	14 / 15
9	Sunil Jetti (Sunil Jetti*)	22 secs	14	93%	14 / 15
10	Jahida Shaik (Jahida Shaik)	48 secs	14	93%	14 / 15
11	Manikumar Kuramana (Manikumar)	10 secs	11	73%	11 / 15
12	sai Kumar pspk (Sai Kumar)	16 secs	11	73%	11 / 15
13	Ummadi Venkata Phanindra (Ummadi Venkata Phanindra)	11 secs	10	67%	10 / 15
14	sai Kumar pspk (Sai Kumar**)	10 secs	9	60%	9 / 15
15	Indhuja Sikatapu (Indhuja)	11 secs	5	33%	5 / 15
16	Mohammad Hussain (Mohammad Hussain)	15 secs	5	33%	5 / 15
17	Praveen Yedupati (Praveen Yedupati)	6 secs	3	20%	3 / 15
18	Pavan Adusumilli (A.Saipavan)	16 secs	2	13%	2 / 15
19	Sunil Jetti (Sunil Jetti)	23 secs	1	7%	1 / 15
20	sai Kumar pspk (Sai Kumar*)	-	0	0%	0 / 15

**Teaching- Learning- Innovative Methods****Online Quiz**Topic: Periodic Properties.Class: II M.ScDate: 1/4/22

ROLL. No.	Name of the Student	Signature
210414	K. Harshitha	K. Harsh
210426	sd. zainab	Zainab
210415	L. Mounica	Flourish
210432	Aabeedunnisa	Aabeedunnisa
210423	P. Pradee	P. Pradee
210409	ch. Roshini	Roshini
210421	P. Reshma	P. Reshma
210408	Ch. K. Shiny	Ch. K. Shiny
210416	M. Suguna Kumari	M. Suguna Kumari
210419	M. Udayabhani	M. Udayabhani
210431	V. Naga Jagathi	V. Naga Jagathi
210407	B. Sai Dwaga prasad	B. Sai Dwaga prasad
210420	P. Krishna veni	P. Krishna veni
210404	A.V. Kishan Kumar	A.V. Kishan Kumar
210417	MD. Hussain	MD. Hussain
210402	A. Saipavan	A. Saipavan
210429	U.V. Khairndra	U.V. Khairndra
210430	U. Raveendra Reddy	U. Raveendra Reddy
210403	A. Sai Kumar	A. Sai Kumar
210418	M. Manoj Kumar	M. Manoj Kumar
210618	O. Manikante	O. Manikante
210609	J. Sunil	J. Sunil
210619	P. Satyam baby	P. Satyam baby
210605	Ch. Venkateshwar Reddy	Ch. Venkateshwar Reddy
210607	D. Harish	D. Harish

Signature of Lecturer

Signature of HOD

CASE STUDY IMPLEMENTATION IN  
CURRICULUM

Regd No: \_\_\_\_\_

Room No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG II SEMESTER END EXAMINATIONS**

Class : I MBA  
Subject : MANAGEMENT  
Title of Paper: Operations Management  
Paper Code : R20MBA204  
W.E.F : 2020-21

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Paper Time : 9 am to 12 PM  
Date : 04/07/2022

**Section: A**

Answer five of the following questions

5x3=15 MARKS

1. A. Explain - MRP
- B. Explain - JIT SYSTEM
- C. Explain - QUALITY CIRCLES
- D. Explain - MATERIAL MANAGEMENT
- E. Explain - STATISTICAL QUALITY CONTROL
- F. Explain - VALUE ANALYSIS
- G. Explain - WORK SAMPLING
- H. Explain - WASTE MANAGEMENT

*Any five*

**Section: B**

Answer the following questions

5X8=40 MARKS

2. What do you mean by layout design? Explain in detail about different types of layouts?
3. Is the world class manufacturing can be the best operation strategy- Explain.
4. Explain about types of forecasting and how they are useful in Production Planning.
5. Discuss in detail about work sampling and work study.
6. Explain various maintenance alternatives in OM.
7. Explain the Equipment life Cycle.
8. What do mean by materials management? Explain in detail about ERP.
9. Explain the role of inventory planning and control in Operations.
10. Discuss ISO-9000 Standards.
11. Explain - 'Six sigma and Kanban System'.

**SECTION- C**

**CASE STUDY(COMPULSORY) 1X15=15 MARKS**

12. Product Development Risks

You have the opportunity to invest INR 100 billion for your company to develop a jet engine for commercial aircrafts. Development will span 5 years. The final product costing Rs. 500 million / unit could reach a sales potential, eventual

of Rs. 2500 billion. The new engine can be placed in service 5 years from now, but only if it qualifies four years from now for certification clearing commercial use and only if it meets America's Federal Aviation Administration's (FAA) ever tightening standards for noise reduction. Certification also has to be obtained from India's Director General of Civil Aviation (DGCA). There is competition from world-class manufacturers like Pratt and Whitney and Rolls Royce who are developing competing engines. If you decide to proceed with the project, you must also determine where the new engines will be produced and develop the manufacturing facilities. If you decline to proceed, your company could invest its resources elsewhere and based on its track record, get attractive returns.

(a) What would be your line of action?

(b) In case of lengthy product design and development time, what kinds of risks are there?

Regd No: \_\_\_\_\_

Room No: \_\_\_\_\_

KAKARAPARTY BHAVANARAYANA COLLEGE (AUTONOMOUS)  
PG II SEMESTER END EXAMINATIONS

Class : I MBA  
Subject : MANAGEMENT  
Title of Paper: Marketing Management  
Paper Code : R20MBA201  
W.E.F : 2020-21

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs.  
Paper Time : 9 am to 12 pm  
Date : 30/06/2022

SECTION: A

Answer any FIVE of the following questions.

5 X 3 = 15 Marks

1. Write a short note on:
  - a) Green Marketing.
  - b) Digitalization.
  - c) Buyer Behavior.
  - d) Marketing Mix.
  - e) Marketing Communication Mix.
  - f) Channel Management.
  - g) Distribution Strategy.
  - h) Marketing Audit.

SECTION: B

*any five of*  
Answer the following questions.

5 X 8 = 40 Marks

2. , "Do all companies need to practice the marketing concept?" comment.
- 3 , Define Marketing Environment, Explain the types of marketing environment.
- 4 , What is meant by Price Setting? Explain the Objectives of price setting
- 5 , Explain Product Life Cycle in Detail.
- 6 , Explain the Integrated Marketing Communication Planning Process.
- 7 What are the recent trends in Marketing Communication?
- 8 , How do you design a communication strategy for "sports shoe"?
- 9 Define Marketing Channel System. Explain its Functions & Flows.
- 10 , What is meant by Marketing Organization and What are the Factors Affecting it?
- 11 What is meant by Marketing Audit and Explain the steps undertaken to do marketing audit?

**SECTION - C (1 X 15 = 15Marks)**

**(COMPULSORY)**

12. Started in 1965, ChemCo is a leading manufacturer of car batteries in the U.K. market. Since then, it has been under the charge of Mr. Jones, the founder-owner of the firm. In 1999, the company decided to go for a diversification by expanding the product line. The new product was batteries for fork-lift trucks. At the same time, Mr. Marek was appointed the Senior Vice President of marketing in the company. However, soon after its successful diversification into fork-lift batteries, the sales in this segment began dropping steadily. Mr. Marek wanted to introduce some radical changes in the advertising and branding of the new business but the proposal was turned down by the old-fashioned Mr. Jones.

At this juncture in 2002, the firm is losing heavily in the fork-lift batteries business and its market share in car batteries is also on a decline. Mr. Jones has asked Mr. Marek to show a turnaround in the company within a year. Mr. Marek show the entire details of the company's products. They were just noticed the downfall of the company other than that they found nothing. Mr. Jones realizes his mistake and asked Mr. Marek to solve this problem as soon as possible.

**QUESTIONS:-**

1. What steps should Mr. Marek take to take the company out of its troubles?
2. Why Mr. Jones fails to identify his mistake early?

Regd No: \_\_\_\_\_

Room No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG II SEMESTER END EXAMINATIONS**

Class : I MBA  
Subject : MANAGEMENT  
Title of Paper : Human Resource Management  
Paper Code : R20MBA202  
W.E.F : 2020-21

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Paper Time : 9 am to 12 pm  
Date : 01/07/2022

**SECTION-A**  
(Short Answer Questions)

Answer any FIVE of the following questions

5X3=15M

1.
  - a) Role of HR manager
  - b) Line and Staff
  - c) Human resource planning
  - d) Job description
  - e) 360 degree performance appraisal system
  - f) Reward management
  - g) Management by Objectives (MBO)
  - h) Quality of Work Life (QWL)

**SECTION-B**

(Essay Questions)

Answer any three of the following questions.

5X8=40M

2. Define HRM. What are the functions of HRM?
3. What is the significance of HRM in today's changing environment?
4. What are the different types of selection tests?
5. Explain briefly the steps involved in Human Resource Planning.
6. What is meant by performance appraisal? Explain the modern methods of performance appraisal.
7. What do you understand by 'Recruitment'? Write the process of Recruitment.
8. Bring out the importance of Career Planning? Write the steps involved in Career planning.
9. What are the approaches to Reward Management?
10. Define Quality of Work Life. What are the strategies for improvement of Quality of work life?
11. Explain the role of HRM in mergers and acquisitions.

Section - C (15 Marks)

CASE STUDY (Compulsory)

12. A few years ago, the top executives of a well-managed Multi National Company called SofteX Pvt. Ltd. decided to organize an early Management Awareness Programme (MAP) for the first level supervisors. This company had long been in the forefront of management education and was quite ready to listen to the advice of management specialists concerning this subject. They surveyed their own experiences only to find that many young people, professionally trained, were leaving the company for private employment, where the rewards were thought to be greater. This left the company with something less than the best qualified candidates for supervision; it also left it with a notably older group of supervisors.

A career development programme was carefully worked out. The development of the candidates comprised:

1. A week of formal supervisory training;
2. Assignments to an establishment supervisor who would act as a teacher and guide, advising the candidate on a course of reading and enrolment in college courses wherever available, discussing the theory and practice of management to the candidate and evaluating his or her programmes;
3. Work on task-force assignments as available and appropriate. Frequently, candidates were appointed to supervise the positions before they finish their programmes; if not, they would wither stay within the programme until assigned or resigned from it to resume a technical career.

Several advantages emerged from this programme. The candidates were pleased that their careers were a matter of interest and concern to the higher level executives; candidates could more easily bring themselves to the attention of their superiors. The company was provided with a group of youthful candidates for supervision. The brain-drain from the company almost stopped. Gradually more vigour in management levels became evident and young men and women could establish a broader ways of experience from which to decide whether they really wanted to be managers. Certain disadvantages also became apparent. Many good candidates failed to apply for the programme because they were not sure of their own career objectives, they didn't want to move away from the places where they were originally domiciled or they felt too busy to undergo the training described (it was in addition to their full-time position). Some complained of inadequate counselling, and many who failed to apply were later disgruntled when they found themselves no longer among the candidates for supervisory appointments. The company is now in a mood to re-assess its experience with the programme.

Questions:

- a. Is this a good training programme? Are there any missing elements?
- b. If you are asked to suggest improvements, what would you say?

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Regd. No: \_\_\_\_\_

**III SEMESTER END EXAMINATION**

Class : II MBA  
Subject : Commerce  
Title of paper : Strategic Management  
Subject Code : MBA 30119  
W.E.F : 2018-19

Max Marks : 70  
Pass Marks : 28  
Duration : 3 Hrs  
Time : 09:00 to 12:00  
Date : 08/02/2021

**SECTION-A**

**Answer any FIVE of the following**

**5X3 = 15M**

1. a) Strategy.
- b) Objectives.
- c) Environment Threat.
- d) Strategic Advantage.
- e) Corporate culture.
- f) Social Responsibility.
- g) Mergers.
- h) Balanced score card.

**SECTION-B**

**Answer any FIVE of the following**

**5X8 = 40M**

2. Define strategic management? Discuss its scope?
3. Explain different types of Strategies.
4. Bring out different stages of Strategic management.
5. Describe in detail the BCG Matrix.
6. Explain about Porters forces model.
7. Corporate Social Responsibility is the need of the hour. Comment.
8. List out different Diversification Strategies.
9. Explain different Functional plans.
10. Discuss the significance of organizational Leadership.
11. Explain at length about Strategic Budgetary Control.

**P.T.O**

12 Mysore Foods Limited produces and distributes packaged food products such as cereals, biscuits, spices, jams and jellies, syrups, etc. The company has a national market and also exports small quantities to neighbouring countries. It conducts a large national advertising campaign. It has 75 plants located all over the country and markets 70 different products, each under its own trade mark. Though its products are all food products, they are not otherwise closely related. They vary from long margin specialities with comparatively small volume to large-volume items with small profit margins. Different raw materials and other articles are used in their processing and packing. All products are, however, sold through the same channel. i.e., retail and provision stores. Gross sales are Rs.25 crore and total assets exceed Rs.12 crore.

The management of Mysore Foods Limited is centralised. The Chairman of the Board, the President and four Vice-Presidents who are responsible for sales, production, purchasing and law make up the topmost executive level of the company and operate as a committee on all general policy matters. Sales, advertising and sales promotion come under the Sales Vice-President. All Plant operations as well as the research and engineering department report to the Production Vice-President. Purchasing is the responsibility of its Vice-President who also governs traffic. Public relations, law and corporate functions fall under the General Counsel. Financial responsibilities are handled by the President and employee relations are covered by each Vice-President in his own area of responsibility. The Company was set up by combining several food products organisations and it has acquired others since one of the theories of the organisers was that there would be great advantage in wholesale distribution if he salesman could cover an entire line on one call as against a number of salesmen, each calling to sell a single line. Saving in time alone would be of great value to the distributor. The principle has been retained and has proved successful as the company has grown. One sales organisation handles all the products. Each product is given specific time and attention by the sales organisation in accordance with its demands. The head of the field sales organisation reports to the Vice-President.

The advertising Manager group of products are assigned to one of the 20 Product Managers. Each Product Manager is responsible for seeing that his product receives due attention from the sales organisation, the production department, and promotion departments. He specialises in the pricing and sales appeal questions of his product. He reports, however, to the Sales Vice President, who has the overall control. The Sales Vice-President can curtail any efforts of the Product Managers if he is using his sales force for special efforts on some other product or products. There is no institutional advertising. All advertising is coordinated and placed by the Advertising Manager while the final authority rests with Sales Vice-President. Each plant is operated by a superintendent who is in-charge of wages, maintenance, cost output, quality, hiring, inspection and other normal plant operation responsibilities. Superintendents report to eight regional Production Managers who are responsible. Superintendents report to eight Regional Production Managers who are responsible to the Production Vice-President. The volume of production in each plant is scheduled by the production control group reporting to the Operating Vice-President. Final schedules are set after consulting

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Regd. No: \_\_\_\_\_

**III SEMESTER END EXAMINATION**

Class : II MBA  
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Max Marks : 70  
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**SECTION-A**

**Answer any FIVE of the following**

**5X3 = 15M**

1. a) Strategy.
- b) Objectives.
- c) Environment Threat.
- d) Strategic Advantage.
- e) Corporate culture.
- f) Social Responsibility.
- g) Mergers.
- h) Balanced score card.

**SECTION-B**

**Answer any FIVE of the following**

**5X8 = 40M**

2. Define strategic management? Discuss its scope?
3. Explain different types of Strategies.
4. Bring out different stages of Strategic management.
5. Describe in detail the BCG Matrix.
6. Explain about Porters forces model.
7. Corporate Social Responsibility is the need of the hour. Comment.
8. List out different Diversification Strategies.
9. Explain different Functional plans.
10. Discuss the significance of organizational Leadership.
11. Explain at length about Strategic Budgetary Control.

**P.T.O**

the Sales Vice-President. The volume of production in each plant is scheduled by the production control group reporting to the Operating Vice-President. Final schedules are set after consulting the Sales Vice-President. The business has more than doubled in the last ten years and profits, both gross and net, have increased. The number of plants has also more than doubled. Purchases have increased proportionately. New taxes and new reports to the government have added to the complexity. The management feels that certain problems are potentially dangerous and should be solved before they become serious.

There have been periods in which a product has got into difficulty because of loss of favour with the public, bad management or even neglect. Attention of the Sales Vice-President to the problems of some products has caused him, at times, to fail to recognise difficulties in other products even though the Product Manager of such products had recognised them and brought them to his attention. The burden on the present officers is becoming too heavy to ensure proper attention to all their responsibilities. Employment of assistants erodes the personal touch of the top group that is necessary for successful management. Opportunities for increasing product-lines and expanding the business are being lost because of lack of executive's time to study them or to manage new products. In any business where specialities are sold under trade marks and brands are the major business of a company, it is necessary for the company to continually bring out new products and to study old ones to determine the point of no return regarding promotion and advertising expenses.

Once the top executives group has approved the idea of a new product, it is put under one of the Vice-Presidents. He develops an organisation and brings it along. At first, the advertising appropriation for a new product is not the responsibility of the Sales Vice-President but of the Developing Vice President. Eventually, if the product proves to be successful it is turned over to the regular line of organisations. With new products and growth in the old ones, the weight, complexing and number of decisions that have to be taken by the very few men at the top, mean a heavier burden for them. The management feels that in addition to the lost opportunities market potential and the need for development of present products are not being fully recognised. The business may have grown too big for the form of management. Executives require more responsible attention for each product. At the same time they wish to retain the advantages of central management in purchasing, traffic, institutional reputation and minimum sales approach and to maintain the high-calibre advice and experience now present in law, advertising accounting and public relations.

**Questions:**

- i. How far is the existing organizational structure effective in the changed conditions of the company?
- ii. Indicate (a) How the desired product responsibility can be achieved? (b) Any changes in line authority, and (c) The use, if any of staff functional authority or committees.
- iii. What policy and organizational structure changes do you recommend, and why.

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# BUSINESS LABS

## **Business Communication Lab**

Business Communication lab is an initiative of MBA Department and has been offering since 2010 beyond the college hours with the objective of developing writing skills and presentation, writing business proposals and letters among the students. Some of the events which are conducted to meet the objective are

### **JUST-A-MINUTE AND ADVERTISEMENT**

In This session they have to speak about any topic for a 1 minute in English and they speak out of any advertisement in English language. It is an individual activity to perform.



Participant in the JAM Session



Participant in the JAM Session



Participant in the JAM Session

## **AD MAKING**

In this session they done advertisement of product which they launched their own. I have divided 6 teams and each team consisting 4 members. Each team take their own product i.e., those who is making the products and start the business own, as they also do like making new product, create features, make cost of the product, making production process and how much the investment required, etc. and finally they done advertisement to promote the product how they sell.

## **DEBATE & PAPER READING**

### **DEBATE**

A debate is a formal discussion on a specific topic. In a debate, two sides argue for and against a specific proposal or resolution. In this session students expressed their views on the current topics.

Some covered debate topics:

- Homework should be banned
- National public service should be mandatory for every citizen
- The sale of human organs should be legalized
- Artificial intelligence is a threat to humanity
- Bottled water should be banned.

### **PAPER READING**

During the coronavirus pandemic, students worldwide shifted from the classroom to remote, online learning. Many swapped hard copy textbooks and worksheets for websites and other digital resources. Digital books have been with us for a decade — but how well are we absorbing it all?



**Student participant as paper reader**



**Students participated in Debate session**



## SELF – INTRODUCTION

A good introduction will help new acquaintances learn the essential details about who you are. When you don't have a third party to provide an introduction, you must offer an informative self-introduction that's engaging and memorable. The right introduction can solidify your name and purpose for the person you're speaking to, so you can make a positive impression. This article will help you create a powerful self-introduction that includes all the essential information you need to convey.



**Participants in Self-introduction**



## MANAGEMENT GAMES

Business Games refers to the training method for managers. This form of training is based on an artificial environment that simulates the real situation in the management of the organization.

Learning should be enjoyable and listening to a person talk is one of many methods of learning. However, it is less suitable for people who prefer a more practical, active approach. Management games help make learning interactive, enjoyable and realistic with key learning points to take back to the workplace.

However, there are many reasons for running management games including:

- A game simulates 'real life' conditions of what the training is trying to communicate
- It is enjoyable with lots of learning in a short space of time
- It generates interest in the subject and is rich in experiential learning
- The game allows participants to easily interact, socialise, and network with others
- It provides much evidence for the facilitator and participants to debrief and learn from.

### **Key benefits of our management games:**

- Wide selection of business games and training materials produced by us and other top companies
- Best price guaranteed with help before and after your purchase
- Buy and use as many times as you want
- Easy to use – just follow the included trainer's guide
- Structured learning activities that are lively and fun, but focus on real, relevant workplace issues.



Participants in the Management games



# BUDGET REVIEW SESSION

# BUDGET REVIEW SESSION – 01.02.2023



## ఎన్నికల వ్యూహంలా కేంద్ర బడ్జెట్

ప్రముఖ ఛార్జెడ్ అకౌంటెంట్ లింగమూర్తి

ప్రజాశక్తి-వన్టాన్: కేంద్ర బడ్జెట్ పూర్తిగా ఎన్నికల వ్యూహంలా కనిపిస్తుందని ప్రముఖ ఛార్జెడ్ అకౌంటెంట్ బీవీఎస్ లింగమూర్తి అన్నారు. కెబీఎస్ కళాశాల కామర్స్ అండ్ మేనేజిమెంట్ స్టడీస్ ఆధ్వర్యంలో కేంద్ర బడ్జెట్-2023 అంశంపై చర్చా కార్యక్రమాన్ని బుధవారం ఆ కళాశాల సెమినార్ హాల్లో నిర్వహించారు. ఈ సందర్భంగా లింగమూర్తి మాట్లాడుతూ త్వరలో జరిగే వివిధ రాష్ట్రాల ఎన్నికల నేపథ్యాన్ని గమనంలో ఉంచుకొని కేంద్ర ప్రభుత్వం బడ్జెట్ను రూపకల్పన చేసినట్లు తెలుస్తోందన్నారు. మూలధన వ్యయాలకు సంబంధించి గతం కన్నా కొంచెం అధికంగా పెంచటం మంచి పరిణామమన్నారు. యువతకు సంబంధించి నైపుణ్యాభివృద్ధి కేంద్రాలను దేశ వ్యాప్తంగా 30 చోట్ల ఏర్పాటు చేయడం వల్ల మేలు కలిగే అవకాశముందన్నారు. గృహనిర్మాణం, గిరిజన అభివృద్ధికి సంబంధించి నిధుల కేటాయింపులు కూడా బాగానే ఉన్నాయన్నారు. అయితే కొన్ని వస్తువుల జీఎస్టీ రేట్ను

తగ్గిస్తారని ఎదురుచూశామని అది కనిపించలేదన్నారు. కొన్ని రంగాలకు సంబంధించిన రాయితీలలో కూడా ఆశించిన స్పందన లేదన్నారు. మరో ఛార్జెడ్ అకౌంటెంట్ జి.గంగాధర్ మాట్లాడుతూ ఎప్పటి నుంచో ఎదురుచూస్తున్న వ్యక్తిగత ఆదాయ పన్నుకు సంబంధించిన పెంపు మధ్యతరగతి, ఉద్యోగ వర్గాలకు ఊరటనిస్తుందన్నారు. కేటాయింపులు బాగున్నా వాస్తవ రూపంలో అవి అమలుకు నోచుకోవడం లేదన్నారు. ఈ కార్యక్రమంలో కళాశాల వైస్ ప్రిన్సిపాల్ డాక్టర్ ఎం వెంకటేశ్వరరావు, విభాగాధిపతి డాక్టర్ ఆంజనేయశాస్త్రి పాల్గొన్నారు.



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Source: <https://epaper.prajasakti.com>

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### కేంద్ర బడ్జెట్లో ఎన్నికల వ్యూహాలు

**విజయవాడ వశీషు ఫిబ్రవరి 1 : - (చార్తా ప్రభ ప్రతినిధి)కేంద్ర**  
ఆర్థిక శాఖామంత్రి నిర్మలాసితారామన్ ప్రవేశపెట్టిన కేంద్ర బడ్జెట్ పూర్తిగా ఎన్నికల వ్యూహాలే కనిపిస్తున్నాయని ప్రముఖ ఛార్జెడ్ అకౌంటెంట్ బీవీఎస్ లింగమూర్తి అన్నారు. కాకరపర్తి భావనారాయణ కళాశాల కామర్స్ అండ్ మేనేజిమెంట్ స్టడీస్ ఆధ్వర్యంలో కేంద్ర బడ్జెట్ -2023 అంశంపై చర్చా కార్యక్రమాన్ని బుధవారం ఆ కళాశాల సెమినార్ హాల్లో నిర్వహించారు. ఈ సందర్భంగా బడ్జెట్ అసంతకరం లింగమూర్తి మాట్లాడుతూ త్వరలో జరిగే వివిధ రాష్ట్రాల ఎన్నికల నేపథ్యాన్ని గమనంలో ఉంచుకొని కేంద్ర ప్రభుత్వం బడ్జెట్ను రూపకల్పన చేసినట్లు తెలుస్తోందన్నారు. మూలధన వ్యయాలకు సంబంధించి గతం కన్నా కొంచెం అధికంగా పెంచటం మంచి పరిణామమన్నారు. యువతకు సంబంధించి నైపుణ్యాభివృద్ధి కేంద్రాలను దేశ వ్యాప్తంగా 30 చోట్ల ఏర్పాటు చేయడం వలన చాలా మేలు కలిగే అవకాశముందన్నారు. గృహనిర్మాణం, గిరిజన అభివృద్ధికి సంబంధించి నిధుల కేటాయింపులు కూడా బాగానే ఉన్నాయన్నారు. అయితే కొన్ని వస్తువుల జీఎస్టీ రేట్ను తగ్గిస్తారని ఎదురుచూశామని అది కనిపించలేదన్నారు. అలాగే కొన్ని రంగాలకు సంబంధించిన రాయితీలలో కూడా ఆశించిన స్పందన లేదన్నారు. మరో ఛార్జెడ్ అకౌంటెంట్ జి.గంగాధర్ మాట్లాడుతూ ఎప్పటి నుంచో ఎదురు చూస్తున్న వ్యక్తిగత ఆదాయ పన్నుకు సంబంధించిన పెంపు మధ్యతరగతి, ఉద్యోగ వర్గాలకు ఊరటనిస్తుందన్నారు. అలాగే విశాఖమిక్ సర్వీసు ఆధారంగా చేసుకొని సూతన బడ్జెట్ రూపకల్పన జరగాలన్నారు. కానీ ఆ సర్వే వచ్చే సమయానికన్నా ముందే బడ్జెట్ రూపకల్పన జరిగిపోతుందన్నారు. కేటాయింపులు బాగున్నా వాస్తవ రూపంలో అవి అమలుకు నోచుకోవడం లేదన్నారు. ఏ ప్రభుత్వమైనా కేటాయింపులు ఆశాజనకంగా ఉన్నప్పటికీ కేటాయింపులు పూర్తి స్థాయిలో జరిగితేనే అనుకున్న లక్ష్యాలు నెరవేరుతాయన్నారు. కళాశాల వైస్ ప్రిన్సిపాల్ డాక్టర్ ఎం వెంకటేశ్వరరావు మాట్లాడుతూ కామర్స్ అండ్ మేనేజిమెంట్ విద్యార్థులు ఆర్థిక రంగం, బడ్జెట్ తదితర అంశాలపై లోతైన అవగాహన పెంచుకోవాలన్నారు. కార్యక్రమాన్ని విభాగాధిపతి డాక్టర్ ఆంజనేయశాస్త్రి నిర్వహించారు.

# BUDGET REVIEW SESSION – 01.02.2022



# దేశీయ రంగాలకు ఊతమిచ్చే బడ్జెట్

**విజయవాడ వర్ణమ ఫిబ్రవరి 1:-**(నార్తా ప్రభ ప్రతినిధి) కేంద్ర ఆర్థిక శాఖా మంత్రి నిర్మలా సీతారామన్ ప్రవేశ పెట్టిన బడ్జెట్ దేశంలో దేశీయ రంగాలకు ఊతమిచ్చేదిగా ఉందని ప్రముఖ చార్టర్డ్ అకౌంటెంట్ గుండా గంగాధరరావు అన్నారు. కాకరపర్తి భావనారయణ పీజీ కళాశాల మేనేజిమెంట్ స్టడీస్ ఆధ్వర్యంలో 'యూనియన్ బడ్జెట్ - 2022' పై విశ్లేషణ కార్యక్రమాన్ని ఆ కళాశాల సెమినార్ హాల్లో నిర్వహించారు. తొలుత కేంద్ర మంత్రి బడ్జెట్ ప్రసంగాన్ని ప్రత్యక్ష ప్రసారం ద్వారా విద్యార్థులు వీక్షించారు. అనంతరం జరిగిన విశ్లేషణకు ముఖ్యవక్తగా హాజరైన గుండా గంగాధరరావు మాట్లాడుతూ అన్ని వర్గాలకు మేలు జరగకపోయినా ఉత్పత్తి రంగాలకు మేలు చేసేదిగా ఈ బడ్జెట్ ఉందన్నారు. దిగుమతి



సుంకాలను పెంచటం ద్వారా దేశీయంగా ఉత్పత్తులకు అండగా నిలిచినట్లుగా ఉందన్నారు. అలాగే మూలధన వ్యయం పెంచటం వలన ఎన్నో రంగాల్లో నూతన అవకాశాలు లభిస్తాయన్నారు. అదేవిధంగా విద్యారంగానికి ఆశించిన కేటాయింపులు జరిగేయన్నారు. డిజిటల్ మార్కెటింగ్ వంటి అంశాలు ప్రోత్సాహకరంగా ఉన్నాయన్నారు. అయితే చాలా రంగాలకు సంబంధించి నిరాశను కలిగించారన్నారు. ఉద్యోగ వర్గాలకు ఆశించిన ప్రోత్సాహకాలను ప్రకటించలేదన్నారు. అలాగే పన్ను విధింపు విషయాల్లో ప్రభుత్వం అనుసరిస్తున్న విధానాలపై కొంత ఇబ్బందులు ఉన్నాయన్నారు. కార్యక్రమానికి అధ్యక్షత వహించిన కళాశాల ఇన్ ఛార్జి ప్రొఫెసర్ ఎం వెంకటేశ్వరరావు మాట్లాడుతూ బడ్జెట్పై విద్యార్థులకు అవగాహన కల్పించే నిమిత్తం ప్రతి ఏటా ఈ విధమైన విశ్లేషణ కార్యక్రమాన్ని నిర్వహిస్తామన్నారు. విద్యార్థులు బడ్జెట్లోని ప్రధానాంశాలపై అవగాహన పెంచుకోవాలన్నారు. ఈ కార్యక్రమంలో పీజీ డైరెక్టర్ డాక్టర్ ఎన్ వెంకటరమణ, విభాగాధిపతి బీ ప్రభాకర్, అధ్యాపకులు రవికిరణ్ తదితరులు పాల్గొన్నారు.



## దిగుమతి సుంకాల పెంపుతో

# దేశీయ ఉత్పత్తులకు ఊతం



మాట్లాడుతున్న గంగాధరరావు, ఇన్ ఛార్జి ప్రొఫెసర్ వెంకటేశ్వరరావు, హాజరైన పీజీ విద్యార్థులు

**విద్యారవ్వరం, భవానీపురం, న్యూస్టుడే**  
కేంద్ర బడ్జెట్లో దిగుమతి సుంకాలు పెంచడం దేశీయ ఉత్పత్తులకు ఊతమివ్వడమేనని చార్టర్డ్ అకౌంటెంట్ జి. గంగాధరరావు అన్నారు. కేంద్ర పేట కేటీఎన్ కళాశాల ప్రాంగణంలో పీజీ మేనేజిమెంట్ స్టడీస్ ఆధ్వర్యంలో కేంద్ర బడ్జెట్-2022పై విశ్లేషణ కార్యక్రమాన్ని మంగళవారం నిర్వహించారు. ఈ

సందర్భంగా ఆయన మాట్లాడుతూ బడ్జెట్ ద్వారా అన్ని వర్గాలకు మేలు జరగకపోయినప్పటికీ ఉత్పత్తి రంగాలకు మేలు చేసేవిధంగా ఉన్నదన్నారు. ఇన్ ఛార్జి ప్రొఫెసర్ వెంకటేశ్వరరావు మాట్లాడుతూ బడ్జెట్పై విద్యార్థులు అవగాహన పెంచుకోవాల్సిన అవసరం ఉందన్నారు. పీజీ డైరెక్టర్ ఎన్. వెంకట రమణ, అధ్యాపకులు ప్రభాకర్, రవికిరణ్ పాల్గొన్నారు.

**సాంకేతికతకు పెద్ద**  
ఈ దశాబ్దంలో ఆదిక ప్రాధాన్యం ఇవ్వాలని సంస్కరణలకు అవకాశాలు ఉంటే జారీ చేసే విధానం ఉంటుంది. భూమి గంగా దేశంలో ఎక్కువ

## కేంద్ర బడ్జెట్తో దేశీయరంగానికి ఊతం

చార్టర్డ్ అకౌంటెంట్ గంగాధరరావు



వన్టాన్, ఫిబ్రవరి 1 (ప్రభన్యూస్) : కేంద్ర ఆర్థిక శాఖా మంత్రి నిర్మలా సీతారామన్ ప్రవేశ పెట్టిన బడ్జెట్ దేశంలో దేశీయ రంగాలకు ఊతమిచ్చేదిగా ఉందని ప్రముఖ చార్టర్డ్ అకౌంటెంట్ గుండా గంగాధరరావు అన్నారు. కాకరపర్తి భావనారయణ పీజీ కళాశాల మేనేజిమెంట్ స్టడీస్ ఆధ్వర్యంలో 'యూనియన్ బడ్జెట్ -2022' పై విశ్లేషణ కార్యక్రమాన్ని ఆ కళాశాల సెమినార్ హాల్లో నిర్వహించారు. తొలుత కేంద్ర మంత్రి బడ్జెట్ ప్రసంగాన్ని ప్రత్యక్ష ప్రసారం ద్వారా విద్యార్థులు వీక్షించారు. అనంతరం జరిగిన విశ్లేషణకు ముఖ్యవక్తగా హాజరైన గుండా గంగాధరరావు మాట్లాడుతూ అన్ని వర్గాలకు మేలు జరగకపోయినా ఉత్పత్తి రంగాలకు మేలు చేసేదిగా ఈ బడ్జెట్ ఉందన్నారు. దిగుమతి సుంకాలను పెంచటం ద్వారా దేశీయంగా ఉత్పత్తులకు అండగా నిలిచినట్లుగా ఉందన్నారు. అలాగే మూలధన వ్యయం పెంచటం వలన ఎన్నో రంగాల్లో నూతన అవకాశాలు లభిస్తాయన్నారు. అదేవిధంగా విద్యారంగానికి ఆశించిన కేటాయింపులు జరిగేయన్నారు. డిజిటల్ మార్కెటింగ్ వంటి అంశాలు ప్రోత్సాహకరంగా ఉన్నాయన్నారు. అయితే చాలా రంగాలకు సంబంధించి నిరాశను కలిగించారన్నారు. ఉద్యోగ వర్గాలకు ఆశించిన ప్రోత్సాహకాలను ప్రకటించలేదన్నారు. అలాగే పన్ను విధింపు విషయాల్లో ప్రభుత్వం అనుసరిస్తున్న విధానాలపై కొంత ఇబ్బందులు ఉన్నాయన్నారు. కార్యక్రమానికి అధ్యక్షత వహించిన కళాశాల ఇన్ ఛార్జి ప్రొఫెసర్ ఎం వెంకటేశ్వరరావు మాట్లాడుతూ బడ్జెట్పై విద్యార్థులకు అవగాహన కల్పించే నిమిత్తం ప్రతి ఏటా ఈ విధమైన విశ్లేషణ కార్యక్రమాన్ని నిర్వహిస్తామన్నారు. విద్యార్థులు బడ్జెట్లోని ప్రధానాంశాలపై అవగాహన పెంచుకోవాలన్నారు. ఈ కార్యక్రమంలో పీజీ డైరెక్టర్ డాక్టర్ ఎన్ వెంకటరమణ, విభాగాధిపతి బీ ప్రభాకర్, అధ్యాపకులు రవికిరణ్ పాల్గొన్నారు.

## COLLEGE E-LEARNING PLATFORM

- **YouTube**
- **Moodles**
- **Blogs**
- **Google Class Rooms**

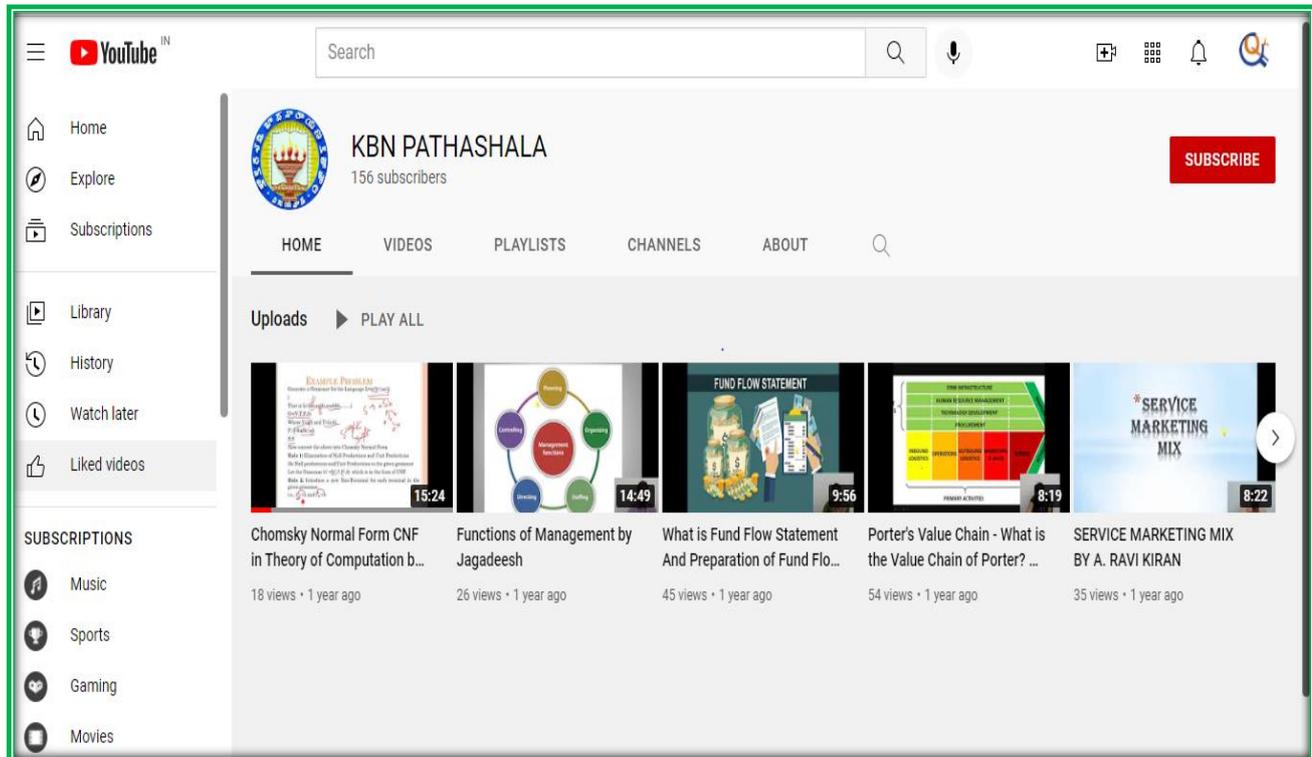
# College YouTube Channel Link

<https://www.youtube.com/@kbncollegemedia/videos>

The screenshot displays the YouTube channel page for K.B.N. College. The channel name is "K.B.N. College" with the handle "@kbncollegemedia", 2.29K subscribers, and 480 videos. The channel description includes "More about this channel" and the website "kbncollege.ac.in". A "Subscribe" button is visible. The navigation menu includes Home, Videos, Shorts, Live, Playlists, Community, and Channels. The video grid shows the following content:

- Unit - 1 - Rajanethi** by Mr. R.Jitendra Kumar, Dept. of Telugu, K.B.N. College, Vijayawada... (11:33, 11 views - 5 hours ago)
- Unit - 1 | Vyalathikarana Nalpurayala** by Mr. R.Jitendra Kumar (21:09, 4 views - 5 hours ago)
- Unit - 2 - Business Statistics** by Mr. K.Shiv Prakash, Dept. of Commerce & Management (18:43, 12 views - 1 day ago)
- Unit - 3 - Genetic Engineering** by Ms. E.Honey Rachel, Dept. of Computer & Science (12:53, 18 views - 1 day ago)
- Unit - 5 - Angular Life Cycle Hooks** by Mr. N.S.Sal Karun, Dept. of Computers & Science (11:29, 6 views - 2 days ago)
- Unit - 4 (A) - Pipes in Angular** by Mr. N.S.Sal Karun, Dept. of Computers & Science (4:28, 14 views - 2 days ago)
- Unit-1 - Data Base Mangement System** by Mr. Suresh, Dept. of Computers & Science (18:45, 10 views - 2 days ago)
- Unit-1 (C) - Operating System** by Ms. Sharmila Mumtaz, Dept. of Computers & Science (7:22, 10 views - 2 days ago)
- Operating system** by Ms. Sharmila Mumtaz, Dept. of Computers & Science (7:22, 10 views - 2 days ago)
- Operating system** by Ms. Sharmila Mumtaz, Dept. of Computers & Science (7:22, 10 views - 2 days ago)
- ANGULAR DATA BINDING** by Mr. Suresh, Dept. of Computers & Science (18:45, 10 views - 2 days ago)
- ANGULAR DATA BINDING** by Mr. Suresh, Dept. of Computers & Science (18:45, 10 views - 2 days ago)

<https://www.youtube.com/channel/UCJAvs2XNqizUuhvhK8UQuAA>



The image shows a screenshot of a YouTube channel page for 'KBN PATHASHALA'. The channel has 156 subscribers and a 'SUBSCRIBE' button. The page is divided into sections: 'HOME', 'VIDEOS', 'PLAYLISTS', 'CHANNELS', and 'ABOUT'. Under the 'VIDEOS' tab, there are five video thumbnails with their titles and view counts:

- Chomsky Normal Form CNF in Theory of Computation b...** (18 views • 1 year ago, 15:24)
- Functions of Management by Jagadeesh** (26 views • 1 year ago, 14:49)
- What is Fund Flow Statement And Preparation of Fund Flo...** (45 views • 1 year ago, 9:56)
- Porter's Value Chain - What is the Value Chain of Porter? ...** (54 views • 1 year ago, 8:19)
- SERVICE MARKETING MIX BY A. RAVI KIRAN** (35 views • 1 year ago, 8:22)

The left sidebar shows navigation options: Home, Explore, Subscriptions, Library, History, Watch later, Liked videos, and a 'SUBSCRIPTIONS' section with icons for Music, Sports, Gaming, and Movies.

[College Staff Moodle Links](https://kbncollege.ac.in/kbnlms.php)

<https://kbncollege.ac.in/kbnlms.php>

# FACULTY USING GOOGLE MEET

The screenshot shows a Google Classroom interface for the course 'III CBZ 2020-21'. At the top, there are navigation tabs for 'Stream', 'Classwork', 'People', and 'Grades'. The main header features a green banner with the course name and a 'Customize' button. Below the banner, the 'Class code' is 'x4avtpi'. The 'Upcoming' section shows 'No work due soon'. The 'Stream' section contains an announcement: 'Announce something to your class' and two assignment posts by Krishnaveni Gudela, both dated Sep 1, 2020 (Edited Sep 12, 2020). The assignments are: 'Write the chemical properties of nitro compo...' and 'Write the preparation methods of aliphatic nitro...'. There is also a note for '1 class comment'.

The screenshot shows a Google Classroom interface for the course 'II MSc Organic Chemistry'. At the top, there are navigation tabs for 'Stream', 'Classwork', 'People', and 'Grades'. The main header features a blue banner with the course name and a 'Customize' button. Below the banner, the 'Class code' is 'hkozfsn'. The 'Upcoming' section shows 'No work due soon'. The 'Stream' section contains an announcement: 'Announce something to your class'.



Instructions

Student Work

Due Feb 8

## Compare and contrast Divide and Conquer, Greedy Method and Dynamic Programming?

100 points

Submit your answers on or before 8th Feb 2020

### Class comments



**Yesaswi Chinni** Feb 7

Divide and Conquer is an algorithmic pattern. In algorithmic methods, the design is to take a dispute on a huge input, break the input into minor pieces, decide the problem on each of the small pieces, and then merge the piece wise solutions into a global solution. This mechanism of solving the problem is called the Divide & Conquer Strategy.

Divide and Conquer algorithm consists of a dispute using the following three steps.

Divide the original problem into a set of sub problems.

Conquer: Solve every sub problem individually, recursively.

Combine: Put together the solutions of the



100 points ▾



Instructions

Student work

0

Handed in

0

Assigned

17

Marked



Marked



Akhil Varma

90/100  
Not handed in



Ameesha Shaik

90/100



Bandaru Harshavardhan R...

85/100



Hareeshkumar Therli27

85/100



Kvlharitha98 Haritha

80/100



Meghana naidu

80/100



Nikki Katakam

80/100

Instructions

Student work

---

## BBC Spectra

100 points

---

Submit on or before 16th Feb, 2020

---

### Class comments



**sailaja botta** 12 Feb

What about remaining numbers



**sailaja botta** 17 Feb

Submit immediately

---

Instructions

Student work

0

Handed in

3

Assigned

14

Marked



Assigned



CHARAN KUMAR

Assigned



Ramanjaneyulu Krovi

Assigned



Vamsi Chowdary Hari

Assigned



Marked



Akhil Varma

90/100  
Not handed in



Ameesha Shaik

98/100



Bandaru Harshavardhan R...

80/100



II M.Sc.(Chemistry)

A



Share with your class...



Saved announcements (1)



**New assignment: Electrocyclic reactions**

12 Feb



Add class comment



Stream



Classwork



People

Hi Sailaja,

Mrp Pavan posted a new assignment in [II MSC\(CS\) MACHINE LEARNING](#).



### KNN

Explain the implementation of KNN in 200 words submit in pdf form

[OPEN](#)

If you don't want to receive emails from Classroom, you can [unsubscribe](#).



## KNN

100 points

Your work

Assigned

 Mrp Pavan 11:27 AM

Explain the implementation of KNN in 200 words submit in pdf form



KNN Algorithm using Python...  
YouTube video 19 minutes

Private comments

Class comments

 Class has been archived by your teacher. You can't add or edit anything.

# E-CONTENT BY FACULTY THROUGH BLOGS

← E-CONTENT DEVELOPED BY V.SURESH LECTURER IN  
COMPUTER SCIENCE-K.B.N COLLEGE-VIJAYAWADA

## SYSTEM CALLS ON OPERATING SYSTEM

September 04, 2020

### System Calls in Operating System

A system call is a way for a user program to interface with the operating system. The program requests several services, and the OS responds by invoking a series of system calls to satisfy the request. A system call can be written in assembly language or a high-level language like **C** or **Pascal**. System calls are predefined functions that the operating system may directly invoke if a high-level language is used.

In this article, you will learn about the system calls in the operating system and discuss their types and many other things.

### What is a System Call?

A system call is a method for a computer program to request a service from the kernel of the **operating system** on which it is running. A system call is a method of interacting with the operating system via programs. A system call is a request from computer software to an operating system's kernel.



## DBMS AND JAVA by V T RAM PAVAN KUMAR ASST. PROFESSOR (KBN COLLEGE)

### Java Beans Program

September 27, 2019

```
Index.jsp <html> <head> <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"> <title>JSP
Page</title> </head> <body> <form action="process.jsp"> <input type="text" name="uname"
value="name" onclick="this.value='/'><br/> <input type="text" name="uemail" value="emailid"
onclick="this.value='/'><br/> <input type="password" name="upass" value="password" onclick="this.value='/'><br/>
<input type="Submit" value="register"/> </form> </body> </html> Process.jsp <%@page ...
```

1 comment

[READ MORE](#)

## ONLINE ASSESSMENT TESTS

**Inorganic and Physical Chemistry (R20CHE101)**

2nd Mid examination

 gkveni2003@kbncollege.ac.in (not shared) [Switch account](#) 

\* Required

The solutions of different compositions co-existing with one another are called \* 1 point

- Azeotropic solutions
- conjugate solutions
- immiscible solutions
- none

Name of the Student \*

Questions   Responses **114**   Settings Total points: 30

**Inorganic and Physical Chemistry (R20CHE101)**

2nd Mid examination

Name of the Student \*

Short answer text


# MOOCS LOCAL CHAPTER

NATIONAL PROGRAMME ON  
TECHNOLOGY ENHANCED LEARNING

A JOINT VENTURE BY INDIAN INSTITUTES OF TECHNOLOGY & INDIAN INSTITUTE OF SCIENCE



# NPTEL

2019-08-05

To  
The Principal  
KAKARAPARTI BHAVANARAYANA COLLEGE  
KAKARAPARTI BHAVANARAYANA (KBN) COLLEGE  
9-42-104 KT ROAD OPP. SRINIVASA MAHAL, KOTHAPET, VINCHIPETA, VIJAYAWADA, ANDHRA PR.

Dear Sir/Madam,

Sub: Establishing SWAYAM NPTEL Local Chapter in your college

Greetings from the NPTEL office.

This is to acknowledge the receipt of your letter accepting to host SWAYAM NPTEL Local Chapter in your institution.

The **Single Point of Contact (SPOC)** nominated from your college is

**Name of SPOC:** M.V.T RAM PAVAN KUMAR  
**Designation:** ASST.PROFESSOR  
**Department:** MCA  
**Contact No(s):** 9985103102  
**E-mail id:** kbnpntel@gmail.com

We wish to inform you that all future correspondence related to NPTEL contents and online courses will be made to the afore-mentioned SPOC. He/she will be routinely updated with all the latest NPTEL initiatives which then may be circulated among the students.

[https://nptel.ac.in/LocalChapter/spoc\\_login/acknowledgement.php](https://nptel.ac.in/LocalChapter/spoc_login/acknowledgement.php)

1/2

We are also happy to share that a dedicated SWAYAM NPTEL Local Chapter web page is being created and your institution will have a separate page on it (<http://nptel.ac.in/LocalChapter>).

Thanking you.

Sincerely

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT MADRAS

[https://nptel.ac.in/LocalChapter/spoc\\_login/acknowledgement.php](https://nptel.ac.in/LocalChapter/spoc_login/acknowledgement.php)

2/2



M.V.T RAM PAVAN  
KUMAR  
KAKARAPARTI  
BHAVANARAYANA  
COLLEGE

SPOC Timeline

SPoC Conference  
Support Request

LC Profile Changes  
Request

### Manage College and SPOC Profile

- College Profile
- SPOC Profile
- Req Letter
- Ack Letter

#### College Profile

College Address

KAKARAPARTI BHAVANARAYANA (KBN) COLLEGE 9-42-104 KT ROAD  
OPP. SRINIVASA MAHAL, KOTHAPET, VINCHIPETA, VIJAYAWADA,  
ANDHRA PRADESH 520001, INDIA

KRISHNA

ANDHRA PRADESH

Contact No: 08662565679

Alternate No: 08666699233

College Id : 3081

MOOCS CERTIFICATES  
(FOR REFERENCE)

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LANE,VIJAYAWADA3  
VIJAYAWADA  
KRISHNA  
ANDHRA PRADESH - 520003  
PH. NO :9490181826



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**IVATURI SRI POOJITHA**

for passing the course

**Data Analytics with Python**

with Score\* **94** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

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ROAD.  
VIJAYAWADA  
KRISHNA  
ANDHRA PRADESH - 520007  
PH. NO :8185952257



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# NPTEL Online Certification

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**CHENNUPATI NAMRATHA**

for passing the course

**Data Analytics with Python**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
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N.CHANDRA DEVI.  
D.NO1220,RAJUKULA RAMALAYAM STREET  
NUTHAKKI  
GUNTUR  
ANDHRA PRADESH - 522303  
PH. NO :6303620937



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An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

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This certificate is awarded to

**N.CHANDRA DEVI.**

for passing the course

**Data Analytics with Python**

with Score\* **89** %

**Covid-19  
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January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



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579, BABA NAGAR  
MACHILIPATNAM  
KRISHNA  
ANDHRA PRADESH - 521001  
PH. NO :7893761337



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An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



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This certificate is awarded to

**MOHAMMAD SAJIDA BEGAM**

for passing the course

**Data Analytics with Python**

with Score\* **94** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

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578, JODIGUDEM STREET, GHANTASALA MANDALAM  
CHITTURPU  
KRISHNA  
ANDHRA PRADESH - 521132  
PH. NO :9014126773



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# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**TIRUMALA VISWANADHAPALLI**

for passing the course

**Data Analytics with Python**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

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Roll No: NPTEL20CS46S1417935

To  
CHAGANTIPATI PREETHI  
211244, KOBARI THOTA, MADHURANAGAR  
VIJAYAWADA  
KRISHNA  
ANDHRA PRADESH - 520011  
PH. NO :9182695544



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An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



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This certificate is awarded to

**CHAGANTIPATI PREETHI**

for passing the course

**Data Analytics with Python**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

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Roll No: NPTEL20CS46S1507111

To  
PANDI ANUSHA  
7155,VETARNARY HOSPITAL STREET  
PENUMAKA  
GUNTUR  
ANDHRA PRADESH - 522501  
PH. NO :7993324267



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**PANDI ANUSHA**

for passing the course

**Data Analytics with Python**

with Score\* **61** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

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Roll No: NPTEL20CS46S1657543

To  
TUMMALA MAMATHA  
7617462, URMILA NAGAR, BHAVANI PURAM.  
VIJAYAWADA  
KRISHNA  
ANDHRA PRADESH - 520012  
PH. NO :9390060678



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**TUMMALA MAMATHA**

for passing the course

**Data Analytics with Python**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

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Roll No: NPTEL20CS46S1702699

To  
THIPPANI KUSUMA SRI  
D.NO.12754,BHOOLOKAMMA TEMPLE  
STREET,BHAIVSETTI VARI PET,3RD DIVISION  
ELURU  
WEST GODAVARI  
ANDHRA PRADESH - 534001  
PH. NO :8555033909



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**THIPPANI KUSUMA SRI**

for passing the course

**Data Analytics with Python**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
**(12 week course)**

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

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Roll No: NPTEL20CS46S1783495

To  
M BHAVYALAKSHMI  
431021 NEW AJITH SINGH NAGAR P&T COLONY  
VIJAYAWADA  
KRISHNA  
ANDHRA PRADESH - 520015  
PH. NO :9490794197



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**M BHAVYALAKSHMI**

for passing the course

**Data Analytics with Python**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

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Roll No: NPTEL20CS46S1798820

To  
BODDU RAJU  
21319E, BHASKARAPURA, MACHILIPATANAM  
MACHILIPATANAM  
KRISHNA  
ANDHRA PRADESH - 521001  
PH. NO :7396844106



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**BODDU RAJU**

for passing the course

**Data Analytics with Python**

with Score\* **94** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

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Roll No: NPTEL20CS46S1872769

To  
GEDDATI POOJA  
PALLI VANI  
PALLI,CHILAKALIPUDE,GHANTASALA,1\_1.521133  
PALLI VANI PALLI  
KRISHNA  
ANDHRA PRADESH - 521133  
PH. NO :8977705689



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**GEDDATI POOJA**

for passing the course

**Data Analytics with Python**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

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Roll No: NPTEL20CS46S1892662

To  
LUKKA SREEDEVI  
101,GHANTASALA  
GHANTASALA  
KRISHNA  
ANDHRA PRADESH - 521133  
PH. NO :9347529453



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**LUKKA SREEDEVI**

for passing the course

**Data Analytics with Python**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2020**  
(12 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>