



NAAN MUDHALVAN 2023-2024

<https://www.naanmudhalvan.tn.gov.in/mandatorycourses/>

| Sno | Year & UG Programme | Naan Mudhalvan Course | Syllabus Link |
|-----|---|--|---|
| 1. | All I Year | Overview of English Language Communication Assessment and certification from Cambridge | http://kb.naanmudhalvan.in/images/c/c7/Cambridge_Course_Details.pdf |
| 2. | All II year (except BSC CS/BSC SA/BCA) | IBM- Employability Skills | https://naanmudhalvan.tn.gov.in/reports/course_syllabus/2413.pdf |
| 3. | II Year- BSC CS/BSC SA/BCA | Oracle Cloud Infrastructure Architect | https://naanmudhalvan.tn.gov.in/reports/course_syllabus/2417.pdf |
| 4. | III year- BSC PBPB | Food Analysis | https://naanmudhalvan.tn.gov.in/reports/course_syllabus/2447.pdf |
| 5. | III year – Commerce Stream & BBA | Advanced Tally with GST | https://naanmudhalvan.tn.gov.in/reports/course_syllabus/2422.pdf |
| 6. | III Year- BSC CS/BSC SA/BCA | Business Process Management (Tech Support) | https://naanmudhalvan.tn.gov.in/reports/course_syllabus/2518.pdf |
| 7. | III Year- BSC CHEMISTRY | EV Battery Management System | https://naanmudhalvan.tn.gov.in/reports/course_syllabus/2444.pdf |
| 8. | III Year- BA English/ BA Tamil/BA CPA/BSW | Story Telling | https://naanmudhalvan.tn.gov.in/reports/course_syllabus/2453.pdf |



Name of the course: Overview of English Language Assessment and Certification from Cambridge

Departments: UG First year of All Disciplines

Training partner: Cambridge University Press & Assessment



Contents

- I. Introduction*
- II. Overview of the Teacher's Manual and Pedagogy*

SESSION PLANS

| | | |
|-----|---|-----|
| 1. | Session 1 Breaking the Ice | 14 |
| 2. | Session 2 Background | 25 |
| 3. | Session 3 Achievement | 33 |
| 4. | Session 4 News | 43 |
| 5. | Session 5 Seeking Employment | 56 |
| 6. | Session 6 Planning | 70 |
| 7. | Session 7 Making Predictions | 81 |
| 8. | Session 8 Abilities at Work | 94 |
| 9. | Session 9 Purchasing | 105 |
| 10. | Session 10 Leisure | 117 |
| 11. | Session 11 Lifestyle | 128 |
| 12. | Session 12 Natural Forces | 138 |
| 13. | Session 13 Transportation | 146 |
| 14. | Session 14 Language for the Workplace | 157 |
| 15. | Session 15 Consumer Society | 170 |
| 16. | Session 16 Wrap Up | 180 |



CLASS SCHEDULE

| S.NO | DATE | COURSE | CLASS |
|------|----------|---|--------------|
| 1 | 05/02/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |
| 2 | 06/02/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |
| 3 | 07/02/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |
| 4 | 26/02/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |
| 5 | 27/02/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |
| 6 | 1/3/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |
| 7 | 2/3/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |
| 8 | 4/3/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |
| 9 | 7/3/24 | OVERVIEW OF ENGLISH LANGUAGE COMMUNICATION ASSESSMENT | ONLINE CLASS |





Thiruthangal Nadar College
Knowledge is Power

NAAC CYCLE III – AQAR

1.1.1 Effective Curriculum Delivery

1.1 Curriculum Planning and Implementation

Year: 2023-2024





Thiruthangal Nadar College
Knowledge is Power





Upskill from Cambridge

DATE ISSUED: 2024-04-01 | Candidate ID: ENG_384150

Test Report

Candidate Name: **DEVA R**

On the CEFR scale: **B1**

| | | | |
|----------|----|-----------|----|
| READING | B1 | WRITING | B1 |
| SPEAKING | A1 | LISTENING | B1 |

These results show that the candidate can:
Produce simple, mainly isolated phrases, on very familiar topics.
Understand the general meaning of short, non-routine messages and longer articles within their work context.

1/2

Upskill from Cambridge

DATE ISSUED: 2024-04-02 | Candidate ID: ENG_389162

Test Report

Candidate Name: **THAMIZH AZHAGAN N**

On the CEFR scale: **A2**

| | | | |
|----------|----|-----------|----|
| READING | A2 | WRITING | B1 |
| SPEAKING | A1 | LISTENING | A2 |

These results show that the candidate can:
Produce simple, mainly isolated phrases, on very familiar topics.
Understand short work-related documentation and messages within their area of expertise.

1/2





**FEEDBACK
BSC MATHS**

| S.No | IdNumber | UnivReg. No | Nameofthe Student | Feed Back |
|------|----------|-------------|-------------------|-----------|
| 1 | 23BSCM02 | 222307935 | ABINESH RAJA.P | Good |
| 2 | 23BSCM08 | 222307936 | DEEPAK.S | Verygood |
| 3 | 23BSCM07 | 222307937 | DHARANIM | Nice |
| 4 | 23BSCM14 | 222307938 | KAMARAJ.V | Better |
| 5 | 23BSCM12 | 222307939 | MOHANESHWARAN.S | Good |
| 6 | 23BSCM11 | 222307940 | VISHAL .G | Best |
| 7 | 23BSCM01 | 222307941 | ABINAYA.M | Nice |
| 8 | 23BSCM13 | 222307942 | ANGAMMALE | Verygood |
| 9 | 23BSCM06 | 222307943 | BOOMIKA.S | Good |
| 10 | 23BSCM15 | 222307944 | DHARSHINI.S | Better |
| 11 | 23BSCM05 | 222307945 | DIANA ROSELIN.Y | Nice |
| 12 | 23BSCM04 | 222307946 | HEMAPRIYA.G | Good |
| 13 | 23BSCM09 | 222307947 | JEEVITHA .A | Verygood |
| 14 | 23BSCM03 | 222307948 | LINGADURGA.L | Nice |

BCOM GENERAL

| S.No | IdNumber | UnivReg. No | Nameofthe Student | Feed Back |
|------|------------|-------------|-------------------|-----------|
| 1 | 23BCOMG078 | 312310084 | AKASHA | Good |
| 2 | 23BCOMG175 | 312310090 | BALAJIE | Verygood |
| 3 | 23BCOMG194 | 312310092 | BHARATHKUMARS | Nice |
| 4 | 23BCOMG020 | 312310095 | CHANDRUA | Better |
| 5 | 23BCOMG092 | 312310096 | CHELLIYAN.A | Good |
| 6 | 23BCOMG030 | 312310097 | CHINNATHAMBLK | Best |
| 7 | 23BCOMG170 | 312310098 | DEEPAK.S | Nice |
| 8 | 23BCOMG160 | 312310100 | DHANUSHC | Verygood |
| 9 | 23BCOMG101 | 312310101 | DILIPKUMAR.V | Good |
| 10 | 23BCOMG054 | 312310103 | DINESHKUMARD | Better |
| 11 | 23BCOMG097 | 312310104 | DINESHV | nice |
| 12 | 23BCOMG152 | 312310108 | GOKULAKRISHNANL | Good |
| 13 | 23BCOMG086 | 312310109 | GOPALAKRISHNANI | Verygood |
| 14 | 23BCOMG200 | 312310111 | GOWDHAMS | Nice |
| 15 | 23BCOMG008 | 312310113 | HARIHARAN M | Better |
| 16 | 23BCOMG127 | 312310114 | HARISHGOKULR | Good |
| 17 | 23BCOMG015 | 312310116 | JAGADEESH M | Best |
| 18 | 23BCOMG105 | 312310119 | JAWAHAR.K | Nice |



| | | | | |
|----|------------|-----------|-------------------|----------|
| 19 | 23BCOMG003 | 312310124 | KARTHICKM | Verygood |
| 20 | 23BCOMG045 | 312310126 | KARTHIKEYANR | Good |
| 21 | 23BCOMG025 | 312310128 | KIRANKARTHICKS | Better |
| 22 | 23BCOMG026 | 312310135 | LAKSHMINARAYANANN | nice |
| 23 | 23BCOMG117 | 312310136 | LINGESHWARANK | Good |
| 24 | 23BCOMG051 | 312310140 | MADHANRAJ K | Verygood |
| 25 | 23BCOMG034 | 312310141 | MAHENDRANP | Nice |
| 26 | 23BCOMG091 | 312310142 | MANIKANDAN.M | Better |
| 27 | 23BCOMG196 | 312310145 | MD.MEERANUSAIN.J | Good |
| 28 | 23BCOMG083 | 312310149 | MOHAMMEDIMRAN.G | Best |
| 29 | 23BCOMG137 | 312310150 | MOHAMMEDZAMEERN | Nice |
| 30 | 23BCOMG110 | 312310152 | MUKESHK | Verygood |
| 31 | 23BCOMG141 | 312310153 | MURUGAVELB | Good |
| 32 | 23BCOMG176 | 312310157 | NAVEENKUMARN | Better |
| 33 | 23BCOMG112 | 312310161 | PIRUTHIVIRAJLR | nice |
| 34 | 23BCOMG049 | 312310164 | PRAGADEESWARANTS | Good |
| 35 | 23BCOMG193 | 312310166 | PRAVEENKUMARGB | Verygood |
| 36 | 23BCOMG072 | 312310170 | RAJESHV | Nice |
| 37 | 23BCOMG108 | 312310171 | RAJESHKUMARN | Better |
| 38 | 23BCOMG164 | 312310174 | RITHISH.A | Good |
| 39 | 23BCOMG035 | 312310179 | SAKTHIVELG | Best |
| 40 | 23BCOMG182 | 312310180 | SANJAYKUMAR.M | Nice |
| 41 | 23BCOMG122 | 312310183 | SANTHOSHG | Verygood |
| 42 | 23BCOMG130 | 312310184 | SARAVANAKUMARV | Good |
| 43 | 23BCOMG183 | 312310195 | SHYAM.M | Better |
| 44 | 23BCOMG009 | 312310201 | SUDHARSHAN.S | nice |
| 45 | 23BCOMG061 | 312310204 | SUMANKUMARP | Good |
| 46 | 23BCOMG007 | 312310206 | SURENDHARH | Verygood |
| 47 | 23BCOMG195 | 312310208 | THENDRALM | Nice |
| 48 | 23BCOMG098 | 312310212 | VIGNESH.R | Better |
| 49 | 23BCOMG123 | 312310218 | VISWANATHANV | Good |
| 50 | 23BCOMG143 | 312310219 | YOGESHWARANK | Best |
| 51 | 23BCOMG046 | 312310222 | YUVARAJK | Nice |
| 52 | 23BCOMG036 | 312310234 | HARINIA | Verygood |
| 53 | 23BCOMG114 | 312310238 | KUMARIKAMALA.A | Good |
| 54 | 23BCOMG165 | 312310240 | LAKSHIMLS | Better |



| | | | | |
|----|------------|-----------|---------------|----------|
| 55 | 23BCOMG157 | 312310242 | LEENAR | nice |
| 56 | 23BCOMG041 | 312310246 | PRASANNA K | Good |
| 57 | 23BCOMG074 | 312310249 | RAMYAJ | Verygood |
| 58 | 23BCOMG191 | 312310250 | RITHIKAR | Nice |
| 59 | 23BCOMG187 | 312310252 | SAKTHIPRIYA.R | Better |
| 60 | 23BCOMG155 | 312310253 | SHAFRINNISHAM | Good |
| 61 | 23BCOMG147 | 312310254 | SHALINIY | Best |
| 62 | 23BCOMG065 | 312310255 | SHOBANAG | Nice |
| 63 | 23BCOMG166 | 312310256 | SREEBHAVANIV | Verygood |
| 64 | 23BCOMG063 | 312310257 | SUBHASHRI.U | Good |

SUMMARY REPORT

In response to the expression of interest, we hereby intend to submit a proposal for on boarding us as training & assessment partner of TNSDC under the NaanMudhalvan Program. Course Title: **Overview of English Language Communication Assessment & Certification from Cambridge**. Course Description: As per the India Skills Report – 2020 about only 45.9% were found employable. Poor spoken English skills have kept a large number of candidates from landing some of the best paid Jobs in the country. Recruitment and HR Managers around the world report that applicants with exceptional English language skills earn 30–50% higher salaries. Over 85% of the employers view English language skills as important for their organization. The course focusing on enhancing the English skills of students covering all 4 skills (Listening, Reading, Writing and Speaking) with more focus on speaking and is mapped to A2 & B\|-1 levels in the Common European framework of Reference (CEFR) which is an international standard in language.

The course gives equal importance to receptive (Listening and Reading) and productive skills (Speaking & Writing) covering 60 hours. The Listening and Reading skills of the students are enhanced using our Learning Management system and writing and speaking is focused by existing faculty in the institution for which content and training will be provided by Cambridge. The entire course is built with multiple checks with includes a placement test at the beginning, followed by mid-course evaluation and an exit assessment with Listening, Reading, Writing and Speaking which is Internationally benchmarked. Students and teachers are given access to LMS to enable better learning and teaching and at the end of the program the certificate is co-branded which adds additional value to students.



Course Objective:

- ❖ To improve the communicative English skills of the students.
- ❖ To help learners use English in workplace/academic context.
- ❖ To ensure the course is aligned to the Common European framework of reference which is recognized globally.

Course Outcome – A2 Level: Students will be able to: - The exit test assesses English language ability at A2, B1 on the Common European Framework of reference (International standard for language). Each skill assessed; candidates are awarded a CEFR level. An average score is awarded for all the skills. The certificate also includes what a candidate can demonstrate. To know more on what a candidate can do, please check <https://www.cambridgeenglish.org/examsand-tests/cefr/theoutcomementionedbelowhelpinreflectingreal-life-language-skills>.

Typical Abilities Listening & Speaking Reading & Writing Overall general Ability • Can understand simple questions and instruction. • Can express simple opinions or requirements in a familiar context.

- ✓ Can understand straightforward information within a known area.
- ✓ Can complete forms and write short, simple post cards related to personal information. Work
- ✓ Can understand the meaning of a presentation made at a conference
- ✓ Can state simple requirements in the job area.
- ✓ Can understand short reports and manual in workplace.
- ✓ Can write a short, comprehensible note of request to a colleague or a known contact in another company. Social and Tourist.
- ✓ Can understand straight forward directions.
- ✓ Can express like and dislikes in simple language.
- ✓ Can understand straight forward information on food, standard menus, road sign.

B1 Level Outcome: Reading & Writing Listening & Speaking • Can understand the general meaning of non-routine letters within own work area. • Can understand most short reports of a predictable nature. • Can follow a simple presentation/demonstration. • Can deal with predictable request from a visitor. • Can make notes on routine matters, such as taking/placing orders. • Can write straightforward routine letters of a factual nature. • Can offer advice to clients within own job area in simple matters. • Can state routine requirements.

Prerequisites: Based on the placement test, students who are at level A2 & B1 as per the international framework (CEFR) will be given attention to improve the LSRW skills using blended model.



Name of the course: **IBM- Employability Skills**

Departments: All II year (except BSC CS/BSC SA/BCA)

Training partner: IBM

TIMELINE-Startingon12thFebruary(Monday)

| Learning Path | No. of Courses | Duration | Deadlines |
|---|----------------|------------------|-------------------------|
| Career Essentials | 10 | 8hours40 Minutes | 19thFebruary (Monday) |
| SkillsforGenerativeAI | 5 | 3hours50 minutes | 22ndFebruary (Thursday) |
| SkillsforCybersecurity | 3 | 4hours27 minutes | 27thFebruary (Tuesday) |
| IntroductiontoSustainable Tech | 5 | 3hours15 minutes | 1stMarch (Friday) |
| IntroductiontoIndustry demand Job roles | 3 | 9hours39 minutes | 12thMarch (Tuesday) |
| ProjectManagement | 1 | 3hours16 minutes | 15thMarch (Friday) |
| EntrepreneurshipFoundations | 8 | 6hours55 minutes | 22ndMarch (Friday) |

EveryWeekSaturdayDoubtClearingsessionwillbeheldat5pmlink will be shared in WhatsApp group and e-mail.

Implementation Plan

Weekwise Table

| Week | Sub-Topics | Duration | Tentative Dates |
|-------|---|----------|-----------------|
| Week1 | SBOrientationandintroductiontosoft skills | 2 hours | 05/02/24 |
| Week2 | CommunicationSkills-formal and informal | 2 Hours | 12/02/2024 |
| | PresentationSkills | | |
| Week3 | InterviewSkills | 2 hours | 19/02/24 |
| Week4 | Design Thinking | 2 hours | 26/02/24 |
| | ProblemCuration | | |
| | SolutionIdeation | | |
| | Pitching | | |
| Week5 | Let'smake aDesign Model | 2 Hours | 04/03/24 |
| Week6 | Digital Literacy | 2 hours | 11/03/2024 |
| | DigitalFootprint | | |
| | Effectiveuseofsocialmedia | | |
| Week7 | ResumeWriting-Formats&Layouts | 2 hours | 18/03/2024 |
| | CreatingaLinkedin Profile | | |
| Week8 | Resumeandcoverletter Submission | 2 hours | 25/03/2024 |



SAMPLE FORMAT FOR RESUME IN NAAN MUDHALVAN

J Arokiya Navina

No:179,7th Street Mahatma Gandhi Nagar Kolathur
Chennai-99
+919176297232
navinamichael13@gmail.com

Objective

Seeking an entry-level opportunity . I would like to work in an organization that will give me a platform to utilize my skill and enrich my knowledge in the process to help in growth with my initiative and managerial skill without overlooking basic value of life

Education

| | |
|-----------|--|
| 2019-2020 | INFANT JESUS MATRIC.HR.SEC.SCHOOL LAKSHMIPURAM,CHENNAI ,TAMILNADU-600099 SSLC 71% |
| 2021-2022 | LOURDES GIRLS HR.SEC.SCHOOL PERAMBUR, CHENNAI, TAMILNADU 600011 HSC 70% |
| 2022-2025 | UNIVERSITY OF MADRAS (THIRUTHANGAL NADAR COLLEGE) CHENNAI, TAMILNADU 600051 Bsc.Mathematics Pursuing |

Skills

- Ms Excel
- Ms word
- Ms Power Point

Languages

- Tamil & English

Personal Details

- Date of Birth : 13-08-2004
- Marital Status : Single
- Nationality : Indian
- Religion : Christian
- Father's name : A.M.Jesu Michael

Declaration

- I hereby declare that the information and facts stated about are true, correct and complete to the best of my knowledge and belief

J AROKIYA NAVINA



Job description for an Information Technology (IT) position:

Job Title: IT Support Specialist

Job Summary:

The IT Support Specialist will be responsible for providing technical assistance and support to end-users for computer systems, software, and hardware. This role involves diagnosing and resolving technical issues, installing and configuring computer systems, and maintaining IT infrastructure. The IT Support Specialist will also assist in the implementation of new technologies and provide training to end-users as needed.

Responsibilities:

1. Provide technical support to end-users via phone, email, or in person.
2. Diagnose and troubleshoot technical issues related to computer systems, software, and hardware.
3. Install, configure, and maintain computer systems, including operating systems and software applications.
4. Set up and configure network equipment, printers, and other peripherals.
5. Perform routine maintenance tasks, such as software updates, system backups, and antivirus scans.

Qualifications:

1. Bachelor's degree in Computer Science, Information Technology, or related field.
2. Proven experience in providing technical support in a professional environment.
3. knowledge in computer hardware, software, and operating systems (Windows , Linux).
5. Excellent problem-solving skills and the ability to diagnose and resolve technical issues efficiently.
6. Strong communication and interpersonal skills, with the ability to explain technical concepts to non-technical users.

Salary and Benefits:

1. Salary range: 1.5 lakhs – 2 lakhs per annum (depending on experience and qualifications) Health insurance, retirement plans, and other benefits provided
2. Two way cab provided



COVER LETTER

Dear H.R. Manager,

I am writing in regards to the open position for a fresher at Wipro. I am confident that I have the skills and qualifications that make me the perfect candidate for this role.

I have a strong background in Java, Python, and HTML, and I am confident that I can hit the ground running in this role. I am a quick learner and have a great eye for detail, which I believe would be a valuable asset in this role.

I am also excited about the possibility of working at Wipro. I have heard great things about the company and I believe it would be a great place to start my career. I am a hard worker and I am confident that I would be a valuable asset to your team.

I am interested in the fulltime role and I am open to relocating to Bangalore. I believe that I have the skills and qualifications that make me the perfect candidate for this role and I am eager to put my skills to work in this role.

Thank you for your time and consideration. I look forward to hearing from you.

Sincerely,

J Arokiya Navina



NAME: Hariharan .R

CAREER OBJECTIVES: To search for a job which will provide me growth and development in my career.

SOFTWARE EFFIECIENCY: Basic knowledge of computer

PROFESSIONAL TRAITS: 1.ICT

2.NPTL – Organizational behavior

ACADEMIC QUALIFICATION:

| QUALIFICATION | INSTITUTION | YEAR OF PASSING | PERCENTAGE |
|---------------|-------------------------------------|-----------------|------------|
| B.COM (A&F) | Thiruthangal Nadar College | 2023-24 | pursuing |
| HSLC | Dr. Radhakrishnan mat hr sec school | 2020-21 | 81% |
| SSLC | Dr. Radhakrishnan mat hr sec school | 2018-19 | 63% |

PERSONAL INFORMATION:

DOB: 20/02/2005

LANGUAGE KNOWN: English, Tamil

ADDRESS: No.36 Lakshmi Amman nagar , 1st Street kodungaiyur , Chennai-51

PH NO: 6379347254

MAIL ID: harisandhu2005@gmail.com

DECLARATION: I hereby declare that all the information above is in accordance with the truth and fact as per my knowledge and I

hope the responsibility for correctness of the above-mentioned particulars

PLACE: Chennai

DATE:



STAFFFEEDBACK

Following IBM Skills Build – Future Employability Skills program completion, students benefited with Improved Clarity, Enhanced Listening Skills, Increased confidence, Better Organization of Thoughts, Effective Non-Verbal Communication, Improved Persuasion Skills, Enhanced Teamwork Abilities, Greater Empathy and Email Writing Skill.

After completing this course, a student will be prepared to pursue careers in the following fields - Corporate Sector, Sales and Marketing, Public Relations, Entrepreneurship, Education and Training, Media and Broadcasting.

SUMMARY REPORT

The Future Employability Skills program aims to equip participants with the essence of the digital landscape, gaining fundamental knowledge of digital literacy and tools for confident navigation.

Eight weeks of online session was conducted in which the various topics regarding employability skills were discussed by experts and was followed by an assessment for the students. Following IBM Skills Build – Future Employability Skills program completion, students benefited with Improved Clarity, Enhanced Listening Skills, Increased confidence, Better Organization of Thoughts, Effective Non-Verbal Communication, Improved Persuasion Skills, Enhanced Teamwork Abilities, Greater Empathy and Email Writing Skills.

After completing this course, a student will be prepared to pursue careers in the following fields - Corporate Sector, Sales and Marketing, Public Relations, Entrepreneurship, Education and Training, Media and Broadcasting.



Name of the course: **Advanced Tally with GST**

Departments: **III year – Commerce Stream & BBA**

THIRUTHANGAL NADAR COLLEGE

DEPARTMENT OF COMMERCE - GENERAL

ADVANCE TALLY WITH GST - ASSESSMENT

ATTENDANCE SHEET

CLASS :III B.COM B

| S.NO. | ID NO. | REG. NO. | STUDENTS NAME | SIGNATURE |
|-------|------------|-----------|-----------------------|----------------------|
| 1 | 21BCOMG123 | 312113132 | GIDEON - J | |
| 2 | 21BCOMG107 | 312113134 | NAVEEN KUMAR - V | N. Naveen |
| 3 | 21BCOMG114 | 312113135 | SAIKUMAR - N | N. Sai Kunal |
| 4 | 21BCOMG083 | 312113136 | SHAIK KALIL - S K | Shaiqat |
| 5 | 21BCOMG096 | 312113138 | VENKATESH - P | Venkatesh P |
| 6 | 21BCOMG057 | 312113139 | DEEPA - P K | Deepa P.K. |
| 7 | 21BCOMG111 | 312113140 | ABTHUL RAHIM - R | Abthul |
| 8 | 21BCOMG136 | 312113141 | AKASH - D | D. Akash |
| 9 | 21BCOMG100 | 312113143 | MOHAMMEDAMAN - A | A. Aman |
| 10 | 21BCOMG094 | 312113144 | VASIKARAN - N | Vasikaran |
| 11 | 21BCOMG097 | 312113148 | ABDUL AZEEZ - S | Abdul |
| 12 | 21BCOMG099 | 312113149 | ABISHEIK - K | K. Abhishek |
| 13 | 21BCOMG087 | 312113152 | AMRITH - S M | Amrith S.M. |
| 14 | 21BCOMG084 | 312113153 | ANTHONY RAJ - D | D. Anthony |
| 15 | 21BCOMG092 | 312113155 | ARUL MURUGAN - S | S. Arulmurugan |
| 16 | 21BCOMG118 | 312113160 | AYATH BASHA - A | Ayath |
| 17 | 21BCOMG093 | 312113161 | AZEES AHAMED - T | Azees Ahamed T |
| 18 | 21BCOMG109 | 312113166 | BHARATHI KANNAN - G | G. Bharathi |
| 19 | 21BCOMG113 | 312113167 | BLASET BENNIYOL - A | Blaset |
| 20 | 21BCOMG103 | 312113170 | DHANUSH - B | Dhanush B |
| 21 | 21BCOMG085 | 312113172 | DILIP KUMAR - S | Dilip Kumar S |
| 22 | 21BCOMG216 | 312113174 | DINESH - S | Dinesh S |
| 23 | 21BCOMG110 | 312113175 | GANESAN - M | Ganesan M |
| 24 | 21BCOMG091 | 312113177 | GNANASEKAR - B | Gnanasekar B |
| 25 | 21BCOMG115 | 312113185 | HARIHARAN - S | Harihara S |
| 26 | 21BCOMG130 | 312113187 | HARISH - R P | R.P. Harish |
| 27 | 21BCOMG102 | 312113188 | IRISH MICHAEL RAJ - J | J. Irish |
| 28 | 21BCOMG127 | 312113192 | JAYASINGH PRABU - E | J. Jayasingh |
| 29 | 21BCOMG090 | 312113193 | JEEVA - V | Jeeva V |
| 30 | 21BCOMG112 | 312113203 | KISHORE - P | P. Kishore |
| 31 | 21BCOMG098 | 312113217 | MARIA JEBA SUGITH - S | S. Maria Jeba Sugith |
| 32 | 21BCOMG106 | 312113218 | MENAGARAJ - M | M. Menagaraj |



| | | | | |
|----|--------------|-----------|-----------------------|---------------------|
| 33 | 21BCOMG122 | 312113222 | MOHAN - S | S. Mohan |
| 34 | 21BCOMG137 | 312113223 | MONISH - V | V. Monish |
| 35 | 21BCOMG129 | 312113227 | NAVEEN KUMAR - K R | K.R. Naveen |
| 36 | 21BCOMG086 | 312113229 | NIRMAL RAJ - K | N. Raj |
| 37 | 21BCOMG124 | 312113233 | PRAHALAATHAN - B J K | P. Pralahan |
| 38 | 21BCOMG119 | 312113235 | PRASANTH - R | P. Prasanth R |
| 39 | 21BCOMG125 | 312113238 | PUGAZHENDHI - R | P. Pugazhendhi |
| 40 | 21BCOMG081 | 312113241 | RAMACHANDRAN - T | R. Ramachandran |
| 41 | 21BCOMG088 | 312113247 | SAMUVEL - A | A. Samuvel |
| 42 | 21BCOMG101 | 312113251 | SANTHOSH KUMAR - M | M. Santhosh Kumar |
| 43 | 21BCOMG117 | 312113254 | SATHISH KANNAN - M | S. Sathish Kannan |
| 44 | 21BCOMG134 | 312113255 | SATHISH KUMAR - S | S. Sathish Kumar |
| 45 | 21BCOMG105 | 312113257 | SHERWIN KUMAR - W | W. Sherwin |
| 46 | 21BCOMG131 | 312113259 | SHYAM SUNDAR - V | V. Shyam Sundar |
| 47 | 21BCOMG126 | 312113266 | SUSIDHAR - P | P. Susidhar |
| 48 | 21BCOMG104 | 312113268 | SYED ANSAR BASHA - S | S. Syed Ansar Basha |
| 49 | 21BCOMG121 | 312113270 | SYED TAJUDDIN - B | B. Syed Tajuddin |
| 50 | 21BCOMG128 | 312113271 | THIRUMALAIPATHY - K | K. Thirumalaipathy |
| 51 | 21BCOMG116 | 312113281 | VIKRAM - S | S. Vikram |
| 52 | 21BCOMG089 | 312113282 | VIMALRAJ - G | G. Vimalraj |
| 53 | 21BCOMG120 | 312113286 | BHAVANI - M | M. Bhavani |
| 54 | 21BCOMG138 | 312113287 | BHUVANESHWARI - M | M. Bhuvaneshwari |
| 55 | 21BCOMG153 | 312113289 | DHANALAKSHMI - B | B. Dhanalakshmi |
| 56 | 21BCOMG082 | 312113291 | DHANALAKSHMI - V | V. Dhanalakshmi |
| 57 | 21BCOMG073 | 312113298 | JAGADEESWARI - D | D. Jagadeeswari |
| 58 | 21BCOMG047 | 312113303 | JENIFER - S | S. Jenifer |
| 59 | 21BCOMG144 | 312113310 | MYTHILI - D | D. Mythili |
| 60 | 21BCOMG051 | 312113314 | POOJA - M | M. Pooja |
| 61 | 21BCOMG132 | 312113315 | POOJA - N | N. Pooja |
| 62 | 21BCOMG045 | 312113318 | PRIYADHARSHINI - V | V. Priyadharsini |
| 63 | 21BCOMG049 | 312113321 | SANDHIYA - G | G. Sandhya |
| 64 | 21BCOMG108 | 312113323 | SARAAL - M | M. Saraal |
| 65 | 21BCOMGFS002 | 312113330 | SRILA - P (FREE SEAT) | P. Srila |
| 66 | 21BCOMG055 | 312113333 | SUGANYA - K | K. Suganya |
| 67 | 21BCOMG060 | 312113337 | TIVENA - M | M. Tivena |
| 68 | 21BCOMG044 | 312113340 | YASMEEN - M | M. Yasmeen |



THIRUTHANGAL NADAR COLLEGE

DEPARTMENT OF COMMERCE (G)

CLASS : III B.COM B

COURSE : ADVANCED TALLY WITH GST

| S No | Register No | Full Name | Internal Assessment Marks (out of 25) | External Assessment Marks (out of 75) | Total Marks |
|------|-------------------|--------------------|---------------------------------------|---------------------------------------|-------------|
| 1 | unm143521BCOMG153 | DHANALAKSHMI.B | 25 | 63 | 88 |
| 2 | unm143521BCOMG082 | DHANALAKSHMI.V | 25 | 61 | 86 |
| 3 | unm143521BCOMG057 | DEEPA.P.K. | 25 | 63 | 88 |
| 4 | unm143521BCOMG113 | BLASET BENNIYOLA.A | 25 | 59 | 84 |
| 5 | unm143521BCOMG138 | BHUVANESWARI.M | 25 | 63 | 88 |
| 6 | unm143521BCOMG120 | BHAVANI.M | 25 | 65 | 90 |
| 7 | unm143521BCOMG109 | BHARATHI KANNAN.G | 23 | 58 | 81 |
| 8 | unm143521BCOMG093 | AZEES AHAMED.T | 25 | 63 | 88 |
| 9 | unm143521BCOMG118 | AYATH BASHA.A | 23 | 58 | 81 |
| 10 | unm143521BCOMG092 | ARUL MURUGAN.S | 25 | 61 | 86 |
| 11 | unm143521BCOMG084 | ANTHONY RAJ.D | 25 | 63 | 88 |
| 12 | unm143521BCOMG087 | AMRITH.S.M. | 25 | 63 | 88 |
| 13 | unm143521BCOMG136 | AKASH.D | 22 | 64 | 86 |
| 14 | unm143521BCOMG111 | ABTHUL RAHIM.R | 20 | 63 | 83 |
| 15 | unm143521BCOMG099 | ABISHEIK.K | 25 | 62 | 87 |
| 16 | unm143521BCOMG097 | ABDUL AZEEZ.S | 25 | 60 | 85 |
| 17 | unm143521BCOMG044 | YASMEEN.M | 25 | 68 | 93 |
| 18 | unm143521BCOMG089 | VIMALRAJ.G | 22 | 58 | 80 |
| 19 | unm143521BCOMG116 | VIKRAM.S | 22 | 62 | 84 |
| 20 | unm143521BCOMG096 | VENKATESH.P | 25 | 68 | 93 |
| 21 | unm143521BCOMG094 | VASIKARAN.N | 25 | 58 | 83 |
| 22 | unm143521BCOMG060 | TIVENA.M | 25 | 58 | 83 |
| 23 | unm143521BCOMG128 | THIRUMALAIPATHY.K | 25 | 61 | 86 |



| | | | | | |
|----|--------------------|----------------------|----|----|----|
| 24 | unm143521BCOMG121 | SYED TAJUDDIN.B | 25 | 62 | 87 |
| 25 | unm143521BCOMG104 | SYED ANSAR BASHA.S/t | 22 | 58 | 80 |
| 26 | unm143521BCOMG126 | SUSIDHAR.P | 25 | 68 | 93 |
| 27 | unm143521BCOMG055 | SUGANYA.K | 25 | 59 | 84 |
| 28 | unm143521BCOMGFS02 | SRILA.P | 25 | 68 | 93 |
| 29 | unm143521BCOMG131 | SHYAM SUNDAR.V | 22 | 68 | 90 |
| 30 | unm143521BCOMG105 | SHERWIN KUMAR.W | 25 | 68 | 93 |
| 31 | unm143521BCOMG083 | SHAIK KALIL.S | 25 | 61 | 86 |
| 32 | unm143521BCOMG134 | SATHISH KUMAR.S | 23 | 63 | 86 |
| 33 | unm143521BCOMG117 | SATHISH KANNAN.M/t | 22 | 63 | 85 |
| 34 | unm1435SARAAL.M | SARAAL.M | 25 | 63 | 88 |
| 35 | unm143521BCOMG101 | SANTHOSH KUMAR.M | 22 | 58 | 80 |
| 36 | unm143521BCOMG049 | SANDHIYA.G | 25 | 68 | 93 |
| 37 | unm143521BCOMG088 | SAMUVEL.A | 20 | 61 | 81 |
| 38 | unm143521BCOMG114 | SAIKUMAR.N | 20 | 58 | 78 |
| 39 | unm143521BCOMG081 | RAMACHANDRAN.T | 25 | 68 | 93 |
| 40 | unm143521BCOMG125 | PUGAZHENDHI.R | 25 | 64 | 89 |
| 41 | unm143521BCOMG045 | PRIYADHARSHINI.V | 25 | 58 | 83 |
| 42 | unm143521BCOMG119 | PRASANTH.R | 25 | 63 | 88 |
| 43 | unm143521BCOMG124 | PRAHALAATHAN.B.J.K. | 22 | 63 | 85 |
| 44 | unm143521BCOMG132 | POOJA.N | 25 | 68 | 93 |
| 45 | unm143521BCOMG051 | POOJA.M | 25 | 58 | 83 |
| 46 | unm143521BCOMG086 | NIRMAL RAJ.K | 25 | 63 | 88 |
| 47 | unm143521BCOMG129 | NAVEEN KUMAR.K.R. | 25 | 61 | 86 |
| 48 | unm143521BCOMG107 | NAVEEN KUMAR.V | 25 | 68 | 93 |
| 49 | unm143521BCOMG144 | MYTHILI.D | 25 | 64 | 89 |
| 50 | unm143521BCOMG137 | MONISH.V | 25 | 68 | 93 |
| 51 | unm143521BCOMG122 | MOHAN.S | 25 | 62 | 87 |
| 52 | unm143521BCOMG100 | MOHAMMEDAMAN.A | 23 | 58 | 81 |



| | | | | | |
|----|-------------------|---------------------|----|----|----|
| 53 | unm143521BCOMG106 | MENAGARAJ.M | 25 | 62 | 87 |
| 54 | unm143521BCOMG098 | MARIA JEBA SUGITH.S | 25 | 62 | 87 |
| 55 | unm143521BCOMG112 | KISHORE.P | 25 | 64 | 89 |
| 56 | unm143521BCOMG047 | JENIFER.S | 25 | 58 | 83 |
| 57 | unm143521BCOMG090 | JEEVA.V | 25 | 68 | 93 |
| 58 | unm143521BCOMG127 | JAYASINGH PRABU.E | 25 | 68 | 93 |
| 59 | unm143521BCOMG073 | JAGADEESWARI.D | 25 | 65 | 90 |
| 60 | unm143521BCOMG102 | IRISH MICHEAL RAJ.J | 22 | 60 | 82 |
| 61 | unm143521BCOMG130 | HARISH.R.P. | 25 | 68 | 93 |
| 62 | unm143521BCOMG115 | HARIHARAN.S | 25 | 68 | 93 |
| 63 | unm143521BCOMG091 | GNANASEKAR.B | 23 | 59 | 82 |
| 64 | unm143521BCOMG123 | GIDEON.J | 20 | 64 | 84 |
| 65 | unm143521BCOMG110 | GANESAN.M | 25 | 63 | 88 |
| 66 | unm143521BCOMG216 | DINESH.S | 22 | 60 | 82 |
| 67 | unm143521BCOMG085 | DILIP KUMAR.S | 25 | 58 | 83 |
| 68 | unm143521BCOMG103 | DHANUSH.B | 25 | 62 | 87 |



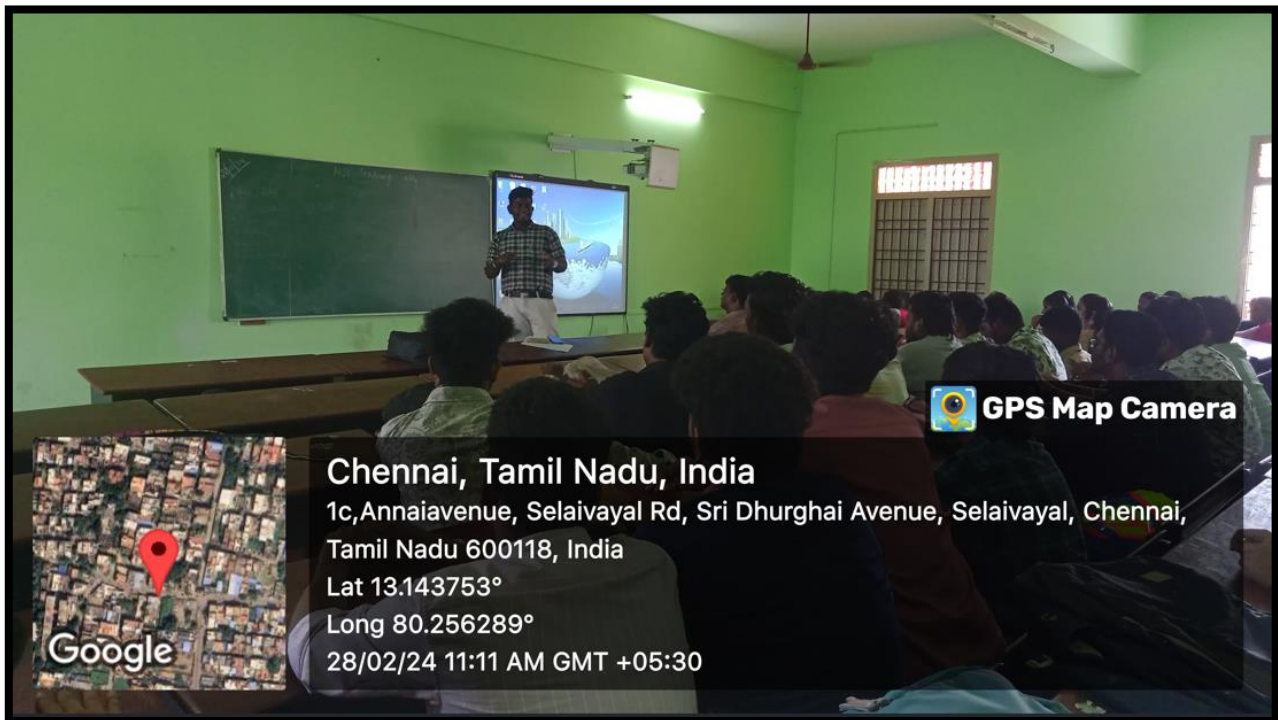
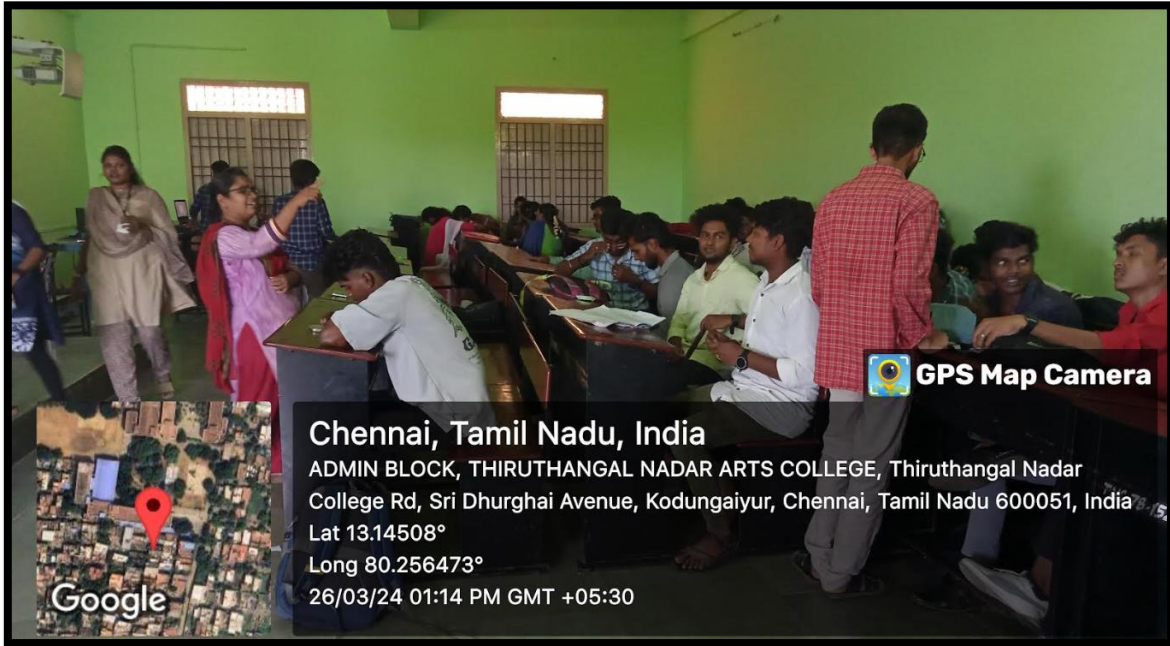
Thiruthangal Nadar College
Knowledge is Power

NAAC CYCLE III – AQAR

1.1.1 Effective Curriculum Delivery

1.1 Curriculum Planning and Implementation

Year: 2023-2024







NAAR MUDHARWAN

05-02-2024

TALLY CLASS
Trainer's
Feed Back Form

I am Yuvarani from Naar Mudharwan Tally trainer. I would like to say about my today's experience while teaching. I taught Basic Tally introduction and gave roles to the students. All about today I am very happy to teach this session because students are effectively learned and asked many doubts. But some students are not listened this class. I hope next class will more better than this class.

Thank YOU

Cr. Yuvarani



THIRUTHANGAL NADAR COLLEGE 21/2/24

NAAN MUDHALVAN

TALLY CLASS

DATE :

TRAINER'S FEEDBACK

Respected Sir/Madam,

I am writing to inform you that the students of B.com general "B" section were fully attentive and co-operative. I liked teaching them and enjoyed it to the max.

yours respectively
Anusha - B1



Date = 28/02/24

NAAN MUDHALVAN

TALLY CLASS

TRAINER'S FEEDBACK FORM

- * Students are very silent, have more skill
- * They lessened the classes very nicely
- * They are so skilled, person to bell Lot of business idea,
- * And communication skill A have Lot of talent
- * And students do respect and obey the order.
- * And students are so, decent and thank you guys.
- * There is no negative feedback about students, Thankyou.

Just



Name of the course: EV Battery Management

Departments: BSC CHEMISTRY

THIRUTHANGAL NADAR COLLEGE, CHENNAI 600 051

DEPARTMENT OF CHEMISTRY

Course Objective

Naan Mudhalvan Programme on EV Battery Management

Summarises the principles of electric vehicle (EV) battery technology and its significance in sustainable transportation.

- Gain proficiency in managing and maintaining EV batteries, including charging, monitoring, and diagnostics.
- Recognize the strategies for optimizing EV battery performance, extending lifespan, and ensuring environmental sustainability.
- Develop skills in analysing battery data and implementing efficient battery management practices.
- Explore emerging trends and innovations in EV battery technology for future applications.



THIRUTHANGAL NADAR COLLEGE, CHENNAI 600 051

DEPARTMENT OF CHEMISTRY

Course Outcome

Naan Mudhalvan Programme on EV Battery Management

Demonstrate a comprehensive understanding of EV battery technology and its management.

- Implement efficient charging strategies and maintenance practices for EV batteries.
- Analyse battery data and apply diagnostic techniques for monitoring battery health.
- Optimize EV battery performance and lifespan through effective management techniques.
- Identify and discuss emerging trends and sustainable practices in EV battery technology.



THIRUTHANGAL NADAR COLLEGE, CHENNAI

DEPARTMENT OF CHEMISTRY

III YEAR NAAN MUDHALVAN

COURSE SCHEDULE

TOPIC: EV Battery Management

Resource Person: Mr. Thirumurugan

| S. No | Date | Topics |
|-------|------------|--|
| 1 | 07-02-2024 | Fundamentals of Battery Management Systems |
| 2 | 14-02-2024 | Fundamentals of Battery Management Systems |
| 3 | 21-02-2024 | Safety Measures and Protections in BMS |
| 4 | 28-02-2024 | Safety Measures and Protections in BMS |
| 5 | 06-03-2024 | Battery Health Monitoring and Estimation |
| 6 | 13-03-2024 | Battery Health Monitoring and Estimation |
| 7 | 14-03-2024 | Optimizing EV Battery Performance |
| 8 | 25-03-2024 | Integration of IoT for Battery Status |



TRAINER ATTENDANCE

III B.Sc. Chemistry

NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE
IMPLEMENTATION
ATTENDANCE SHEET

DATE: 25.03.24 TIME: 9:00 AM - 1:00 PM

| | |
|--------------------------------------|---|
| NAME OF THE TRAINING PARTNER | Rareminds |
| NAME OF THE COURSE | EV Battery Management |
| NAME OF THE COLLEGE | Thiruthangal Nadar College |
| UNIVERSITY | University of Madras |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENTS | 07 |
| NAME OF THE TRAINER | THIRU MURUGAN A |
| SIGN OF THE TRAINER | |
| NAME OF THE FDP FACULTY | K. VISVA GANESAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE | V. Devi Principal THIRUTHANGAL NADAR COLLEGE SELAVAYAL, CHENNAI-600 051. |



NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE
IMPLEMENTATION

ATTENDANCE SHEET

DATE: 21.05.24

TIME: 9.00 AM - 1.00 PM

| | |
|--------------------------------------|----------------------------|
| NAME OF THE TRAINING PARTNER | RAREMINDS |
| NAME OF THE COURSE | EV Battery Management |
| NAME OF THE COLLEGE | Thiruthangal Nadar College |
| UNIVERSITY | University of Madras |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENTS | THIRU MURUGAN.A 06 |
| NAME OF THE TRAINER | A. JAYARAJ |
| SIGN OF THE TRAINER | - |
| NAME OF THE FDP FACULTY | K. VISVA GANESHAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE | |

V. Devi
Principal
THIRUTHANGAL NADAR COLLEGE
SELAWAYAL, CHENNAI-600 051.



NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE
IMPLEMENTATION
ATTENDANCE SHEET

DATE: 14/3/24

TIME: 9.00 AM – 1.00 PM

| | |
|--------------------------------------|---|
| NAME OF THE TRAINING PARTNER | RAREMINDS |
| NAME OF THE COURSE | EV Battery Management |
| NAME OF THE COLLEGE | Thiruthangal Nadar college |
| UNIVERSITY | University of Madras |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENTS | THIRU MURUGAN A 06 |
| NAME OF THE TRAINER | A. JMA |
| SIGN OF THE TRAINER | - |
| NAME OF THE FDP FACULTY | K. VISVA GANESAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE | V. Devi Principal THIRUTHANGAL NADAR COLLEGE SELAVAYAL, CHENNAI-600 051. |



NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE
IMPLEMENTATION
ATTENDANCE SHEET

DATE: 13/3/24

TIME: 9.00 AM – 1.00 PM

| | |
|--------------------------------------|----------------------------|
| NAME OF THE TRAINING PARTNER | RAREMINDS |
| NAME OF THE COURSE | EV BATTERY MANAGEMENT |
| NAME OF THE COLLEGE | Thiruthangal Nadar College |
| UNIVERSITY | UNIVERSITY OF MADRAS |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENTS | 06 |
| NAME OF THE TRAINER | Thirumukugan A |
| SIGN OF THE TRAINER | |
| NAME OF THE FDP FACULTY | K. VISVAGANESAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE | |

V. Devi
Principal
THIRUTHANGAL NADAR COLLEGE
SELAVAYAL, CHENNAI-600 051.



NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE IMPLEMENTATION

ATTENDANCE SHEET

DATE: 14.02.2024

TIME: 9.00 AM – 1.00 PM

| | |
|--------------------------------------|---|
| NAME OF THE TRAINING PARTNER | RAREMINDS |
| NAME OF THE COURSE | EV Battery Management |
| NAME OF THE COLLEGE | THIRUTHANGAL NADAR COLLEGE |
| UNIVERSITY | University of Madras |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENT | 07 |
| NAME OF THE TRAINER | Mr. Thirumurugan |
| SIGN OF THE TRAINER | |
| NAME OF THE FDP FACULTY | K. VISVAGANESAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE | V. Devi Principal THIRUTHANGAL NADAR COLLEGE SELAVAYAL, CHENNAI-600 051. |



□ B.Sc. CHEMISTRY

NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE IMPLEMENTATION

ATTENDANCE SHEET

DATE: 06.03.2024

TIME: 9.00 AM – 1.00 PM

| | |
|--------------------------------------|----------------------------|
| NAME OF THE TRAINING PARTNER | RAREMINDS |
| NAME OF THE COURSE | EV Battery Management |
| NAME OF THE COLLEGE | THIRUTHANGAL NADAR COLLEGE |
| UNIVERSITY | University of Madras |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENT | 07 |
| NAME OF THE TRAINER | Mr. Thirumurugan |
| SIGN OF THE TRAINER | |
| NAME OF THE FDP FACULTY | K. VISVAGANESAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE | |

Principal
THIRUTHANGAL NADAR COLLEGE
SELAVAYAL, CHENNAI-600 051.




NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE IMPLEMENTATION

ATTENDANCE SHEET

DATE: 28.02.2024

TIME: 9.00 AM – 1.00 PM

| | |
|--------------------------------------|--|
| NAME OF THE TRAINING PARTNER | RAREMINDS |
| NAME OF THE COURSE | EV Battery Management |
| NAME OF THE COLLEGE | THIRUTHANGAL NADAR COLLEGE |
| UNIVERSITY | University of Madras |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENT | 07 |
| NAME OF THE TRAINER | Mr. Thirumurugan |
| SIGN OF THE TRAINER | |
| NAME OF THE FDP FACULTY | K. VISVAGANESAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE |  Principal THIRUTHANGAL NADAR COLLEGE BELAVAYAL, CHENNAI-600 051. |




NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE IMPLEMENTATION

ATTENDANCE SHEET

DATE: 21.02.2024

TIME: 9.00 AM – 1.00 PM

| | |
|--------------------------------------|--|
| NAME OF THE TRAINING PARTNER | RAREMINDS |
| NAME OF THE COURSE | EV Battery Management |
| NAME OF THE COLLEGE | THIRUTHANGAL NADAR COLLEGE |
| UNIVERSITY | University of Madras |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENT | 07 |
| NAME OF THE TRAINER | Mr. Thirumurugan |
| SIGN OF THE TRAINER | |
| NAME OF THE FDP FACULTY | K. VISUAGANESAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE |  Principal THIRUTHANGAL NADAR COLLEGE SELAVAYAL, CHENNAI-600 051. |



NAAN MUDHALVAN EVEN SEMESTER ARTS AND SCIENCE IMPLEMENTATION

ATTENDANCE SHEET

DATE: 07-02-2024

TIME: 9.00 AM – 1.00 PM

| | |
|--------------------------------------|----------------------------|
| NAME OF THE TRAINING PARTNER | RAREMINDS |
| NAME OF THE COURSE | EV Battery Management |
| NAME OF THE COLLEGE | THIRUTHANGAL NADAR COLLEGE |
| UNIVERSITY | University of Madras |
| NUMBER OF STUDENTS MAPPED BY NM | 07 |
| NUMBER OF STUDENTS PRESENT | 07 |
| NAME OF THE TRAINER | Mr. Thirumurugan |
| SIGN OF THE TRAINER | |
| NAME OF THE FDP FACULTY | K. VISVAGANESAN |
| SIGN OF THE FDP FACULTY | |
| COLLEGE PRINCIPAL SEAL AND SIGNATURE | Principal |

THIRUTHANGAL NADAR COLLEGE
SELAVAYAL, CHENNAI-600 051



STUDENTS ATTENDANCE

THIRUTHANGAL NADAR COLLEGE
DEPARTMENT OF CHEMISTRY
NAAN MUDHALVAN - EV BATTERY MANAGEMENT - Tamil Nadu

Institute Name - THIRUTHANGAL NADAR COLLEGE

SPOC Name - Dr. J. Hilda Malar : Mobile No - 9789322394

| S. NO | Reg. No | CANDIDATE NAME | 01/02/2024 | 14/02/2024 | 21/02/24 | 28/2/24 | 01/03/24 | 13/3/24 | 14/3/24 | 21/3/24 | 25/3/24 |
|-------|-----------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 222107063 | GURUBALAKRISHNAN. K | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | A | [Signature] | [Signature] | [Signature] |
| 2 | 222107064 | NAVEEN. M | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] |
| 3 | 222107065 | NISHANTH. R | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] |
| 4 | 222107066 | HEMAMALINI. M | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] |
| 5 | 222107067 | LAVANYA. J | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] |
| 6 | 222107069 | SANDHANAMARI. T | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] |
| 7 | 222107070 | THANGA MANI. M | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] |

Instructor
Thirumanyan





Thiruthangal Nadar College
Knowledge is Power

NAAC CYCLE III – AQAR

1.1.1 Effective Curriculum Delivery

1.1 Curriculum Planning and Implementation

Year: 2023-2024





CASE STUDY



EV Battery Management

University Name: Madras University
Student Name: Naveen M
College Name: Thiruthangal Nadar College
NM ID: unm143521BSCCHE09



Thiruthangal Nadar College
RAREMINDS™

Electric Vehicle Safety Features: Explore safety features specific to electric vehicles, crash avoidance technology, and emergency response protocols



Electric Vehicle Safety Features:

- **Battery Management Systems (BMS)**
- **Structural Integrity**
- **Low Center of Gravity**
- **Crashworthiness**
- **Battery Thermal Management**



1. Battery Management Systems (BMS):

1. BMS monitors the health, temperature, and state of charge of the battery pack.
2. It prevents overcharging, deep discharging, and thermal runaway, ensuring battery safety.

2. Structural Integrity:

1. EVs are designed with strong structural integrity to protect the battery pack during collisions.
2. Many EVs use a skateboard-style chassis, with the battery pack forming a low center of gravity for enhanced stability and safety.

3. Low Center of Gravity:

1. The placement of heavy battery packs in the floor of the vehicle results in a lower center of gravity, reducing the risk of rollovers and improving handling.

4. Crashworthiness:

1. EVs are engineered with advanced crumple zones and reinforced passenger compartments to absorb and distribute crash forces away from occupants.

5. Battery Thermal Management:

1. Thermal management systems regulate the temperature of the battery pack to prevent overheating, which can lead to fires or thermal runaway.
2. Liquid cooling or air cooling systems are commonly employed to maintain optimal battery temperature.



Crash Avoidance Technology:

- **Collision Warning Systems**
- **Lane Departure Warning**
- **Blind Spot Detection**
- **Adaptive Cruise Control**
- **Automatic Parking Assistance**



• **Collision Warning Systems:**

- Forward collision warning systems use sensors to detect potential collisions and alert the driver to take evasive action.
- Some systems include automatic emergency braking, which can apply the brakes to mitigate or avoid a collision.

• **Lane Departure Warning:**

- Lane departure warning systems use cameras or sensors to detect unintended lane departures and alert the driver to steer back into the lane.

• **Blind Spot Detection:**

- Blind spot detection systems monitor the vehicle's blind spots and provide visual or audible alerts if a vehicle is detected in adjacent lanes.

• **Adaptive Cruise Control:**

- Adaptive cruise control adjusts the vehicle's speed to maintain a safe following distance from the vehicle ahead, reducing the risk of rear-end collisions.

• **Automatic Parking Assistance:**

- Automatic parking systems use sensors and cameras to assist the driver in parallel or perpendicular parking maneuvers, reducing the risk of collisions with obstacles or other vehicles.



Emergency Response Protocols

- **Emergency Shut-off Procedures**
- **Vehicle Identification**
- **Battery Isolation**
- **Collaboration with Manufacturers**
- **Public Awareness Campaigns**



- **Emergency Shut-off Procedures:**

- Emergency responders are trained to locate and deactivate high-voltage systems in EVs to mitigate the risk of electric shock or fire during rescue operations.

- **Vehicle Identification:**

- Emergency responders are trained to identify EVs and locate relevant safety information, such as the location of the battery pack and high-voltage components.

- **Battery Isolation:**

- Specialized tools and procedures are used to isolate the high-voltage battery pack to prevent electrical hazards during extrication or firefighting



• **Collaboration with Manufacturers:**

- Emergency responders often collaborate with EV manufacturers to develop specialized training programs and protocols for handling EV-related incidents.

• **Public Awareness Campaigns:**

- Public awareness campaigns are conducted to educate drivers and emergency responders about the unique safety features and protocols associated with electric vehicles.



THANK YOU

Name :Naveen M
Email Id :naveennatraj2000@gmail.com
Phone no:6379944243



STAFF FEEDBACK

THIRUTHANGAL NADAR COLLEGE, CHENNAI 600 051

DEPARTMENT OF CHEMISTRY

STAFF FEEDBACK

Naan Mudhalvan Programme on EV Battery Management

The program has been crafted to align closely with the most recent methods for maintaining EV batteries, offering students a solid foundation in comprehending and managing them. It ensures students gain practical experience, enhancing their understanding of monitoring and maintenance practices for EV batteries. This approach, combined with a broad curriculum covering various aspects of battery management, fosters skill development and prepares students to tackle real-world challenges effectively.



TRAINER FEEDBACK

RAREMINDS

TRAINER FEEDBACK

Naan Mudhalvan Programme on EV Battery Management

The program is designed to match the latest techniques in EV battery maintenance, giving students a strong grasp of managing them. It emphasizes hands-on experience, improving their understanding of monitoring and maintenance. With a comprehensive curriculum, it promotes skill development, readying students for real-world scenarios.

STUDENTS FEEDBACK

THIRUTHANGAL NADAR COLLEGE
DEPARTMENT OF CHEMISTRY
IBM Skills Build Future Ready Employability skills
FEEDBACK FORM

| S. No. | College ID No. | Student Name | Comments & Suggestions |
|--------|----------------|---------------------|--|
| 1 | 21BSCCHE02 | GURUBALAKRISHNAN. K | Gained information about batteries |
| 2 | 21BSCCHE09 | NAVEEN. M | Knew about latest technologies in battery sector |
| 3 | 21BSCCHE01 | NISHANTH. R | Highly useful to my career |
| 4 | 21BSCCHE04 | HEMAMALINI. M | Good |
| 5 | 21BSCCHE03 | LAVANYA. J | excellent course |
| 6 | 21BSCCHE05 | LAVANYA. S | Good |
| 7 | 21BSCCHE08 | SANDHANAMARI. T | Need of the hour programmes |
| 8 | 21BSCCHE06 | THANGA MANI. M | Provided idea on maintenance of batteries |



SUMMARY REPORT

THIRUTHANGAL NADAR COLLEGE, CHENNAI 600 051

DEPARTMENT OF CHEMISTRY

Summary Report

Naan Mudhalvan Programme on EV Battery Management

As part of the Naan Mudhalvan initiative, a 5-day training session was conducted, with Mr. Thirumurugan from Rareminds serving as the course trainer. During this session, Mr. Thirumurugan delivered a comprehensive presentation on "EV Battery Management." The students gained valuable insights into several key areas, including:

1. **Safety Measures and Protections in Battery Management Systems (BMS):** Understanding the importance of safety protocols and protective measures in ensuring the safe operation of EV batteries.
2. **Battery Health Monitoring and Estimation:** Learning methods for monitoring the health of EV batteries and estimating their condition to prevent potential issues and ensure optimal performance.
3. **Optimizing EV Battery Performance:** Exploring strategies and techniques for maximizing the performance and longevity of EV batteries through efficient management practices.
4. **Integration of IoT for Battery Status:** Understanding the role of Internet of Things (IoT) technology in monitoring and managing the status of EV batteries in real-time.

The training session proved to be highly beneficial for all final year B.Sc Chemistry students, equipping them with valuable knowledge and insights into the management of EV batteries.



Name of the course: Business Process Management
Departments: III Year- BSC CS/BSC SA/BCA

Course Outcome

Students upon completion of the program will understand

- 1. About careers in Customer Service Industry**
- 2. How the Outsource industry is a business value for organizations, kinds of key outsource services that exist & their basic functionalities, BPM Life cycle process and aspects revolving around it**
- 3. Evolution of Personal Computers, types of ports and connectors in a computer, information around twisted pair cables, commonly seen in a home network, basics of networking, Types of network, Private and Public IP address, IP addressing and types, Network communication concepts and how Internet works**
- 4. Evolution of Windows OS, Installation requirements and various features of Windows OS**
- 5. Professional Skills required for the BPM job role like collaboration and team work, Problem solving and Critical thinking, Mental well-being, Emotional Intelligence, importance of goal setting, ways for effective communication (Verbal/Written/Virtual)**
- 6. Creating an effective CV with a great cover letter, Psycometric tests, preparing for Interviews, Interview Etiquette and acing a Virtual Interview**
- 7. Overviews of emerging technologies like Robotic Process automation, Big Data, Block Chain and Artificial Intelligence.**



Implementation Plan

| Week | Topic | Tentative Date |
|--------|---|---|
| Week 1 | 1. Sign up and enrolment to course 2. Introduction to the course | 5/02/2024 10:00 am to 11:00 am 3:00 pm to 4:00 pm |
| Week 2 | Doubt Clearing session | 12/02/2024 10:00 am to 11:00 am 3:00 pm to 4:00 pm |
| Week 3 | Doubt Clearing session | 19/02/2024 10:00 am to 11:00 am 3:00 pm to 4:00 pm |
| Week 4 | Doubt Clearing session | 26/02/2024 10:00 am to 11:00 am 3:00 pm to 4:00 pm |
| Week 5 | Doubt Clearing session | 04/03/2024 10:00 am to 11:00 am 3:00 pm to 4:00 pm |
| Week 6 | Doubt Clearing session | 11/03/2024 10:00 am to 11:00 am 3:00 pm to 4:00 pm |
| Week 7 | Doubt Clearing session | 18/03/2024 10:00 am to 11:00 am 3:00 pm to 4:00 pm |
| Week 8 | Doubt Clearing session | 25/03/2024 10:00 am to 11:00 am 3:00 pm to 4:00 pm |



THIRUTHANGAL NADAR COLLEGE
DEPARTMENT OF COMPUTER SCIENCE

NAAN MUDHALVAN COURSE : Business Process Management (BPM) - ATTENDANCE

ACADEMIC YEAR : 2023-2024

CLASS : III B.SC - CS

SEMESTER: VI

SEM: EVEN

| S.NO | ID NO | REG.NO | STUDENT NAME | 5/2/2024 | 12/2/2024 | 19/02/2024 | 26/02/2024 | 04/03/2024 |
|------|-----------|-----------|------------------|----------|-----------|------------|------------|------------|
| 1 | 21BSCCS25 | 222107071 | MOHAN RAJLR | PRESENT | ABSENT | PRESENT | PRESENT | PRESENT |
| 2 | 21BSCCS14 | 222107072 | AAMEERA | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 3 | 21BSCCS24 | 222107073 | AJITHKUMAR.D | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 4 | 21BSCCS11 | 222107074 | AKASH B | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 5 | 21BSCCS28 | 222107075 | ANAND KUMAR.P | PRESENT | ABSENT | PRESENT | PRESENT | PRESENT |
| 6 | 21BSCCS06 | 222107076 | HARIPRASANTH V | PRESENT | PRESENT | ABSENT | PRESENT | PRESENT |
| 7 | 21BSCCS20 | 222107077 | HARISH L | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 8 | 21BSCCS29 | 222107078 | JOHNSON.V | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 9 | 21BSCCS17 | 222107079 | KALIDASS B | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 10 | 21BSCCS26 | 222107080 | KAMESHWARAN.P | PRESENT | PRESENT | PRESENT | ABSENT | PRESENT |
| 11 | 21BSCCS12 | 222107081 | KARTHICK N | PRESENT | PRESENT | PRESENT | PRESENT | ABSENT |
| 12 | 21BSCCS30 | 222107082 | KEERTHISIL.TU | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 13 | 21BSCCS18 | 222107083 | LOKESHRAJ.D | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 14 | 21BSCCS21 | 222107084 | MAGESHWARAN S | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 15 | 21BSCCS04 | 222107085 | MANIKANDAN C | PRESENT | PRESENT | PRESENT | ABSENT | PRESENT |
| 16 | 21BSCCS09 | 222107086 | NANDHAKUMAR.S | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 17 | 21BSCCS08 | 222107087 | SAM DANIEL S | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 18 | 21BSCCS03 | 222107088 | SANTHOSHKUMAR.R | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 19 | 21BSCCS15 | 222107089 | SHANKAR P M | PRESENT | PRESENT | ABSENT | PRESENT | PRESENT |
| 20 | 21BSCCS02 | 222107090 | SRIKANTH G | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 21 | 21BSCCS22 | 222107091 | VELAN.K | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 22 | 21BSCCS23 | 222107092 | VIJAY KUMAR V | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 23 | 21BSCCS10 | 222107093 | VINAYAGAMOORTHLM | PRESENT | PRESENT | ABSENT | PRESENT | PRESENT |
| 24 | 21BSCCS16 | 222107094 | JAYA LAKSHMI V | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 25 | 21BSCCS27 | 222107095 | LAVANYA M | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 26 | 21BSCCS07 | 222107096 | MALATHILS | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 27 | 21BSCCS01 | 222107097 | RAMYA.K | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 28 | 21BSCCS13 | 222107098 | RASIKA P | ABSENT | ABSENT | PRESENT | PRESENT | ABSENT |
| 29 | 21BSCCS05 | 222107099 | SHEEBAVATHLD | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |



| THIRUTHANGAL NADAR COLLEGE | | | | | | |
|---|--------------------|------------|-----------|-------------------|---------------|---|
| DEPARTMENT OF COMPUTER SCIENCE | | | | | | |
| NAAN MUDHALVAN COURSE - BUSINESS PROCESS MANAGEMENT | | | | | | |
| ACADEMIC YEAR : 2023-2024 | | | | | | |
| FEEDBACK FROM STUDENTS | | | | | | |
| BATCH : 2021-2024 | | | | SEM: VI | | |
| S.NO. | Timestamp | College ID | Reg. No. | Name | Class | FEEDBACK OF THE COURSE |
| 1 | 4/24/2024 9:38:24 | 21BSCCS25 | 222107071 | MOHAN RAJLR | III B.Sc - CS | Good & useful |
| 2 | 4/24/2024 9:54:31 | 21BSCCS14 | 222107072 | AAMEERA | III B.Sc - CS | Very helpful |
| 3 | 4/24/2024 10:20:05 | 21BSCCS24 | 222107073 | AJITHKUMAR.D | III B.Sc - CS | Excellent |
| 4 | 4/24/2024 10:33:47 | 21BSCCS11 | 222107074 | AKASH B | III B.Sc - CS | Nice |
| 5 | 4/24/2024 10:37:02 | 21BSCCS28 | 222107075 | ANAND KUMAR.P | III B.Sc - CS | - |
| 6 | 4/24/2024 10:38:11 | 21BSCCS06 | 222107076 | HARIPRASANTH V | III B.Sc - CS | Good |
| 7 | 4/24/2024 10:40:03 | 21BSCCS20 | 222107077 | HARISH L | III B.Sc - CS | Perfect |
| 8 | 4/24/2024 10:43:24 | 21BSCCS29 | 222107078 | JOHNSON.V | III B.Sc - CS | Useful |
| 9 | 4/24/2024 10:46:26 | 21BSCCS17 | 222107079 | KALIDASS B | III B.Sc - CS | Excellent |
| 10 | 4/24/2024 10:47:00 | 21BSCCS26 | 222107080 | KAMESHWARAN.P | III B.Sc - CS | It's very useful in learning about BPM |
| 11 | 4/24/2024 10:49:22 | 21BSCCS12 | 222107081 | KARTHICK N | III B.Sc - CS | Good |
| 12 | 4/24/2024 11:03:11 | 21BSCCS30 | 222107082 | KEERTHISHI.TU | III B.Sc - CS | It was very useful |
| 13 | 4/24/2024 11:06:08 | 21BSCCS18 | 222107083 | LOKESHRAJ.A.D | III B.Sc - CS | Good |
| 14 | 4/24/2024 11:06:22 | 21BSCCS21 | 222107084 | MAGESHWARAN S | III B.Sc - CS | Good |
| 15 | 4/24/2024 11:08:10 | 21BSCCS04 | 222107085 | MANIKANDAN C | III B.Sc - CS | - |
| 16 | 4/24/2024 11:09:33 | 21BSCCS09 | 222107086 | NANDHAKUMAR.S | III B.Sc - CS | Very helpful to learn additional courses. |
| 17 | 4/24/2024 11:13:35 | 21BSCCS08 | 222107087 | SAM DANIEL S | III B.Sc - CS | Good |
| 18 | 4/24/2024 11:14:29 | 21BSCCS03 | 222107088 | SANTHOSHKUMAR.R | III B.Sc - CS | Usefull |
| 19 | 4/24/2024 11:18:11 | 21BSCCS15 | 222107089 | SHANKAR P.M | III B.Sc - CS | It is very useful |
| 20 | 4/24/2024 11:34:37 | 21BSCCS02 | 222107090 | SRIKANTH G | III B.Sc - CS | Good |
| 21 | 4/24/2024 11:36:03 | 21BSCCS22 | 222107091 | VELAN.K | III B.Sc - CS | Good |
| 22 | 4/24/2024 11:37:45 | 21BSCCS23 | 222107092 | VIJAY KUMAR V | III B.Sc - CS | Good |
| 23 | 4/24/2024 11:38:33 | 21BSCCS10 | 222107093 | VINAYAGAMOORTHILM | III B.Sc - CS | Good |
| 24 | 4/24/2024 11:39:38 | 21BSCCS16 | 222107094 | JAYA LAKSHMI V | III B.Sc - CS | Nil |
| 25 | 4/24/2024 11:39:45 | 21BSCCS27 | 222107095 | LAVANYA M | III B.Sc - CS | Nothing |
| 26 | 4/24/2024 11:40:04 | 21BSCCS07 | 222107096 | MALATHILS | III B.Sc - CS | Complementary Course |
| 27 | 4/24/2024 11:41:32 | 21BSCCS01 | 222107097 | RAMYA.K | III B.Sc - CS | Good |
| 28 | 4/24/2024 11:45:30 | 21BSCCS13 | 222107098 | RASIKA P | III B.Sc - CS | NIL |
| 29 | 4/24/2024 11:50:11 | 21BSCCS05 | 222107099 | SHEEBAVATHIL.D | III B.Sc - CS | Good |



**THIRUTHANGAL NADAR COLLEGE
DEPARTMENT OF COMPUTER SCIENCE**

ACADEMIC YEAR: 2023-2024

**NAAN MUDHALVAN FEED BACK FROM THE STAFF
“BUSINESS PROCESS MANAGEMENT”**

Class: III B.SC - CS

BATCH :2021-2024

The III year students of Department of Computer Science enrolled their names in the NAAN MUDHALVAN portal to attend the Course entitled “**Business Process Management**” in the even semester during the academic year 2023-2024.

Since the course was conducted through online mode, the students were trained with **pre-recorded videos** and lectures. Doubts were cleared in the Doubt Session by the experts. Also the students found it easy to complete at their own convenience.

Certificates were issued for the students they were happy and enthusiastic to complete the course.



THIRUTHANGAL NADAR COLLEGE

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC YEAR: 2023-2024

NAAN MUDHALVAN REPORT

“Business Process Management”

Class: III B.Sc - CS

BATCH :2021-2024

The II year students of Department of Computer Science enrolled in the NAAN MUDHALVAN Course entitled “**Business Process Management**” in the even semester during the academic year 2023-2024. The students were trained online through pre-recorded videos and their doubts were cleared in the Doubt Session by the experts.

The internal marks were updated by the concerned staff and the external marks are going to be evaluated based on the Assessment.

Name of the course: Food Analysis

Departments: III Year- BSC PBPB

COURSE OBJECTIVES

Course Topic :“Food Analysis”

OVERALL COURSE OBJECTIVE:

- To equip participants with comprehensive knowledge and skills in food analysis techniques, covering various aspects of food composition, safety, and quality assessment.

COURSE OUTCOME

Course Topic :“Food Analysis”

| Course | Outcome |
|--------|---|
| I | Understand the principles of food analysis methodologies. |
| II | Apply various techniques for food composition analysis. |
| III | Apply various techniques for food composition analysis. |
| IV | Interpret and report food analysis results accurately. |
| V | Demonstrate proficiency in laboratory skills relevant to food analysis. |



SCHEDULE

Course Topic :“Food Analysis”

Mode: Offline

Venue: Ambedkar College, Chennai

Duration: Nine weeks

| Week | DATE | TIME |
|------|------------|--------------------|
| I | 30.01.2024 | 9.00 AM TO 5.00 PM |
| II | 06.02.2024 | |
| III | 13.02.2024 | |
| IV | 20.02.2024 | |
| V | 27.02.2024 | |
| VI | 05-03-2024 | |
| VII | 12-03-2024 | |
| VIII | 19-03-2024 | |
| IX | 26-03-2024 | |



STUDENTS ATTENDANCE

THIRUTHANGAL NADAR COLLEGE

III YR NAAN MUDALVAN

Course

Name: FOOD ANALYSIS

Class

III B.Sc. Plant Biology and Plant Biotechnology

AMBEDKAR
COLLEGE& ARTS &
SCIENCE

VENUE:

Mode

OFFLINE

**TRAINERS
NAME**

Mr. Surendar
Rajkumar

| S.No | First Name | Last Name | Student Id | Register Number | 30-01-2024 | 6/2/2024 | 13-02-2024 | 20-02-2024 | 27-02-2024 | 5/3/2024 | 12/3/2024 | 19-03-2024 | 26-03-2024 |
|------|---------------|-----------|------------|-----------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|
| 1 | MOUNIKA | S | 21BSCP05 | 222107107 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 2 | JAGARAO GANTA | S | 21BSCP02 | 222107108 | PRESENT | PRESENT | PRESENT | ABSENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 3 | ESWARI | R | 21BSCP03 | 222107109 | PRESENT | ABSENT | ABSENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 4 | KOWSALYA | K | 21BSCP04 | 222107111 | PRESENT | PRESENT | PRESENT | PRESENT | ABSENT | PRESENT | PRESENT | PRESENT | PRESENT |
| 5 | NIMITHA | N | 21BSCP06 | 222107112 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | ABSENT | PRESENT |





STUDENT FEEDBACK

THIRUTHANGAL NADAR COLLEGE
DEPARTMENT OF PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
NAAN MUDHAVAL TRAINING PROGRAMME

On

“FOOD ANALYSIS”

FEED BACK FORM

NAME: N. Nimitra

CLASS: IIIrd BSc Plant Biology and Plant Biotechnology

Feedback: It is veryful programme. I have learned many informative things. and It is veryful for career opportunities

THIRUTHANGAL NADAR COLLEGE
DEPARTMENT OF PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
NAAN MUDHAVAL TRAINING PROGRAMME

On

“FOOD ANALYSIS”

FEED BACK FORM

NAME: S. Jagannathan

CLASS: IIIrd Year B.Sc Plant Biology and plant biotechnology

FEEDBACK:

It is useful course. Interesting course. Learned useful things from the course.



STAFF FEEDBACK

THIRUTHANGAL NADAR COLLEGE

DEPARTMENT OF PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

NAAN MUDHALVAN TRAINING PROGRAMME

“FOOD ANALYSIS”

STAFF FEEDBACK

Naan Mudhalvan – “Food Analysis” programme was given to our III B.Sc. Plant Biology and Plant Biology students. The course consists of principles of food analysis methodologies, various techniques for food composition analysis, evaluation of food safety and quality parameters and laboratory skills relevant to food analysis. Our students gained technical skills and insights that are applicable in both research and professional contexts.

Dr. A. Ram Kumar
Asst. Professor,
Department of Plant Biology and Plant Biotechnology

TRAINER FEEDBACK

Trainer Feedback

Training was conducted on Food Analysis, we covered various topics related to food safety and food analytical techniques. Students actively participated in the activity session and case studies, they cleared their doubts after the class, overall I had interactive session during the entire training course.

SURENDAR RAJKUMAR
We Care Food Safety Consultancy



SUMMARY REPORT

THIRUTHANGAL NADAR COLLEGE

DEPARTMENT OF PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

NAAN MUDHALVAN TRAINING PROGRAMME

“FOOD ANALYSIS”

SUMMATIVE REPORT

ACADEMIC YEAR 2023-2024

Naan Mudhalvan – “Food Analysis” programme was given to our III B.Sc. Plant Biology and Plant Biology students. The course consists of Introduction to Food Analysis Basics of food composition and analysis Understanding the principles and importance of food analysis methodologies, analytical techniques overview Familiarity with various analytical techniques used in food, Food Composition Analysis, Food Safety and Quality and Laboratory Skills for Food.

The course was conducted in nine weeks (30th January 2024 to 26th March, 2023, Only Tuesday). The students participated in the video lectures in the allotted training sessions. The training session was about 8 h. The weekly attendance was marked in the Google sheet. The students went to Ambedkar College, Chennai every week of Tuesday and completed their assignments.

As an outcome of the course, our students gained scientific skills and insights that are applicable in both research and professional contexts.



Name of the course: **Oracle Cloud Infrastructure Architect**
Departments: **II Year- BSC CS/BSC SA/BCA**

CLASS SCHEDULE

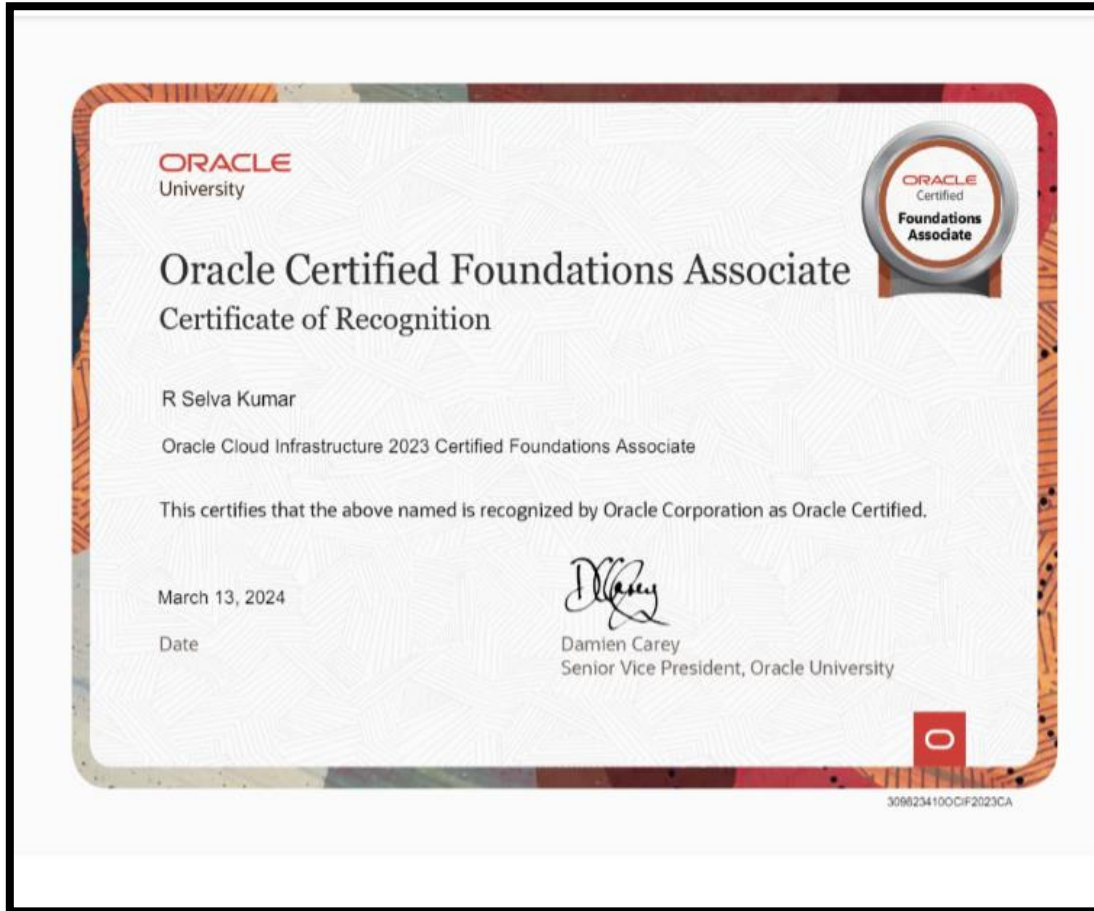
THIRUTHANGAL NADAR COLLEGE
DEPARTMENT OF COMPUTER APPLICATIONS(BCA)
NAAN MUDHALVAN COURSE
ORACLE CLOUD INFRASTRUCTURE ACADEMIC YEAR : 2023-2024
EVEN SEM -CLASS SCHEDULE

BATCH : 2022-2025

CLASS: II BCA B

| S.NO | DATE | COURSE | CLASS |
|------|------------|-----------------------------|--------------|
| 1 | 5/2/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |
| 2 | 12/2/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |
| 3 | 19/02/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |
| 4 | 26/02/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |
| 5 | 04/03/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |
| 6 | 11/03/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |
| 7 | 18/03/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |
| 8 | 25/03/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |
| 9 | 01/04/2024 | ORACLE CLOUD INFRASTRUCTURE | ONLINE CLASS |







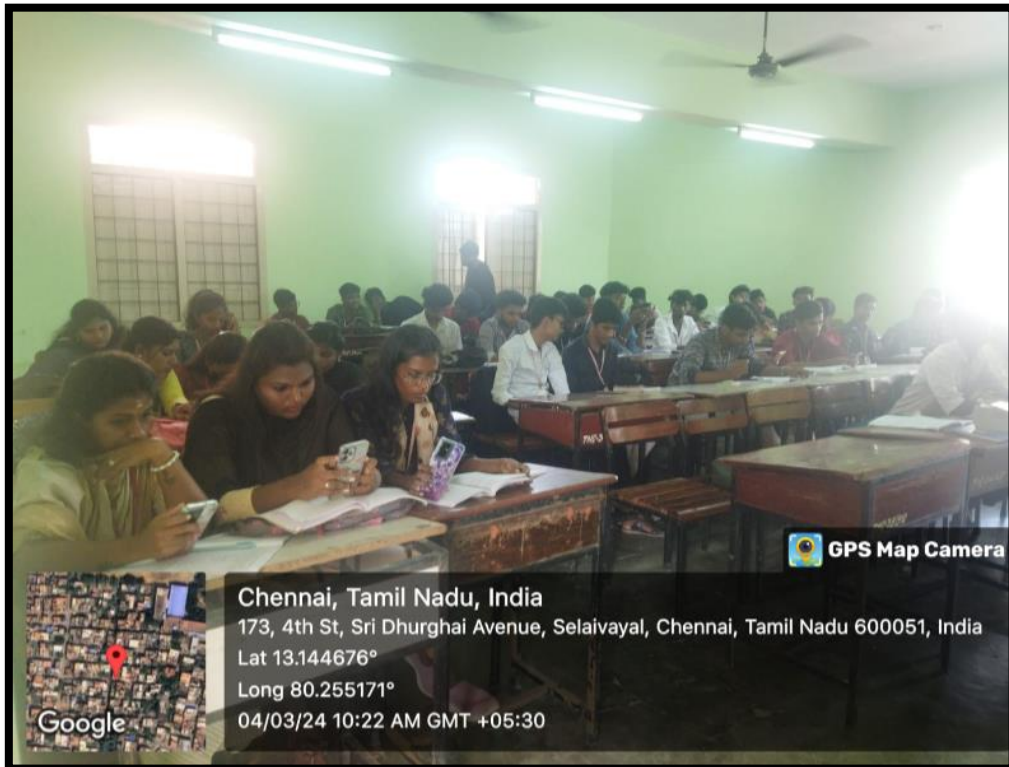
Thiruthangal Nadar College
Knowledge is Power

NAAC CYCLE III – AQAR

1.1 Curriculum Planning and Implementation

1.1.1 Effective Curriculum Delivery

Year: 2023-2024





STUDENTS FEEDBACK

| THIRUTHANGAL NADAR COLLEGE | | | | | | |
|---|--------------------|-----------------------------|-------------|-------|-----------------|--|
| DEPARTMENT OF COMPUTER APPLICATIONS (BCA) | | | | | | |
| NAAN MUDHALVAN COURSE - ORACLE CLOUD INFRASTRUCTURE | | | | | | |
| ACADEMIC YEAR : 2023-2024 | | | | | | |
| FEEDBACK FROM STUDENTS | | | | | | |
| BATCH : 2022-2025 | | | SEM: IV | | CLASS: II BCA B | |
| S.NO. | Timestamp | NAME | STU. ID NO. | DEPT. | CLASS & SEC | FEEDBACK OF THE COURSE |
| 1 | 4/24/2024 9:26:50 | P. Thirupathi alwar | 22bca31 | BCA | II BCA B | Good |
| 2 | 4/24/2024 9:27:09 | G.M.Sivadeh | 22BCA03 | BCA | II BCA B | Good |
| 3 | 4/24/2024 9:27:13 | Suriya.R | 22BCA09 | BCA | II BCA B | The level of engagement of these courses |
| 4 | 4/24/2024 9:28:22 | Babu v | 22bca54 | BCA | II BCA B | Nice |
| 5 | 4/24/2024 9:29:08 | Vinai Raj B | 22BCA103 | BCA | II BCA B | Good |
| 6 | 4/24/2024 9:32:22 | M.Madhan Prasanth | 22BCA76 | BCA | II BCA B | Good |
| 7 | 4/24/2024 9:35:02 | T.Mohammed Ameer Ali Khan | 22bca26 | BCA | II BCA B | Useful for studies |
| 8 | 4/24/2024 9:35:20 | MOHANA PRIYANKA | 22BCA91 | BCA | II BCA B | NOTHING |
| 9 | 4/24/2024 9:38:13 | verkatresh.m | 22BCAE05 | BCA | II BCA B | very nice |
| 10 | 4/24/2024 9:38:24 | Angel j | 22BCAE15 | BCA | II BCA C | Good & useful |
| 11 | 4/24/2024 9:38:55 | Megala S | 22BCA01 | BCA | II BCA B | Usefull |
| 12 | 4/24/2024 9:40:28 | S DEEPAKRAJ | 212203873 | BCA | II BCA B | Definitely it was so useful but it on the classes will be in the online , next time make to teach the classes in offline it will useful us and easy to learn |
| 13 | 4/24/2024 9:43:36 | Aushini S | 22BCA49 | BCA | II BCA B | Good and I think it's useful certificate for jobs |
| 14 | 4/24/2024 9:47:13 | R. Hemanthkumar | 22BCA36 | BCA | II BCA B | GOOD |
| 15 | 4/24/2024 9:50:05 | Sachin | 22BCA40 | BCA | II BCA B | Good |
| 16 | 4/24/2024 9:53:03 | SANDENABOINA SAIKUMAR | 22BCA66 | BCA | II BCA B | Good |
| 17 | 4/24/2024 9:54:03 | verkatkrishnan758@gmail.com | 22bca11 | BCA | II BCA B | Very helpful |
| 18 | 4/24/2024 9:54:31 | verkatkrishnan758@gmail.com | 22bca11 | BCA | II BCA C | Very helpful |
| 19 | 4/24/2024 9:57:41 | Prabhakaran.s | 22BCA101 | BCA | II BCA B | Good |
| 20 | 4/24/2024 10:02:00 | Darshan K | 22BCA17 | BCA | II BCA B | So Sad |
| 21 | 4/24/2024 10:03:26 | PK.KARTHIKEYAN | 22BCA95 | BCA | II BCA B | GOOD |
| 22 | 4/24/2024 10:08:13 | Vigneshwaran.v | 22bca96 | BCA | II BCA B | Good |
| 23 | 4/24/2024 10:08:29 | Yuvraj | 22bca29 | BCA | II BCA B | Better |
| 24 | 4/24/2024 10:10:26 | S.GANESH RAJA | 22BCA92 | BCA | II BCA B | Good |
| 25 | 4/24/2024 10:18:33 | R.harinaran | 22bca02 | BCA | II BCA B | Very good course |
| 26 | 4/24/2024 10:20:05 | M.pooja | 22bca07 | BCA | II BCA C | Excellent |
| 27 | 4/24/2024 10:31:46 | Krithick Nagarjun B S | 22BCA73 | BCA | II BCA B | Good |
| 28 | 4/24/2024 10:35:12 | G.M.Sivadeh | 22BCA03 | BCA | II BCA B | None |
| 29 | 4/24/2024 10:35:24 | P.a.Amsha | 22BCA86 | BCA | II BCA B | I really enjoyed the online course. I thought it was well planned and layed out, easy for me to follow. The so i could finish everything with enough time, learn about the topics and not feel over loaded and rushed. |
| 30 | 4/24/2024 10:38:25 | Saran | 22bca13 | BCA | II BCA B | Good |
| 31 | 4/24/2024 10:54:15 | Kanishka D | 22bca104 | BCA | II BCA B | Good |
| 32 | 4/24/2024 11:06:08 | A. Harish | 22BCAE09 | BCA | II BCA C | Good |
| 33 | 4/24/2024 11:20:46 | Dinesh.R | 22bca06 | BCA | II BCA B | Good and easy |
| 34 | 4/24/2024 13:05:43 | Swathi R | 22bca39 | BCA | II BCA B | Good |
| 35 | 4/24/2024 13:33:55 | M.govinda raj | 22bca18 | BCA | II BCA C | Good |
| 36 | 4/24/2024 13:42:34 | Swathi R | 22bca39 | BCA | II BCA B | Good |
| 37 | 4/24/2024 13:46:10 | Megala | 22BCA01 | BCA | II BCA B | Usefull |
| 38 | 4/24/2024 16:12:43 | Richard Daniel S | 22 | BCA | II BCA B | Good |
| 39 | 4/24/2024 16:28:28 | Praveen.G | 22bca71 | BCA | II BCA B | Was better and I have got no complaints |
| 40 | 4/24/2024 16:29:25 | DHARSHAN M | 22BCA62 | BCA | II BCA B | Good |
| 41 | 4/25/2024 8:32:45 | A.GOWTHAM | 22BCA63 | BCA | II BCA B | Very important and good course for my career |



STAFF FEEDBACK

THIRUTHANGAL NADAR COLLEGE
DEPARTMENT OF COMPUTER APPLICATIONS

ACADEMIC YEAR: 2023-2024

NAAN MUDHALVAN FEED BACK FROM THE STAFF

“ORACLE CLOUD INFRASTRUCTURE”

Class: II BCA B

BATCH :2022-2025

The II year students of Department of Computer Applications (BCA) enrolled their names in the NAAN MUDHALVAN portal to attend the Course entitled “**ORACLE CLOUD INFRASTRUCTURE**” in the even semester during the academic year 2023-2024.

Since the course was conducted through online mode, the students were trained with **pre-recorded videos** and lectures. Doubts were cleared in the Doubt Session by the experts. Also the students found it easy to complete at their own convenience.

Since **Certificates** were issued for the students they were happy and enthusiastic to complete the course.



SUMMARY REPORT

THIRUTHANGAL NADAR COLLEGE

DEPARTMENT OF COMPUTER APPLICATIONS (BCA)

ACADEMIC YEAR : 2023-2024

NAAN MUDHALVAN SUMMARY REPORT

“ORACLE CLOUD INFRASTRUCTURE”

Class : II BCA B

BATCH :2022-2025

The II year students of Department of Computer Applications (BCA) enrolled in the NAAN MUDHALVAN Course entitled “ORACLE CLOUD INFRASTRUCTURE” in the even semester during the academic year 2023-2024. The students were trained online through pre-recorded videos and their doubts were cleared in the Doubt Session by the experts.

The students completed each unit by submitting the challenges provided by the team Adroit Technologies and projects were also uploaded in Oracle.

The internal marks were updated by the concerned staff and the external marks were evaluated based on the Challenges and projects submitted by the students.



Name of the course: **Digital Marketing**

Departments: **III Year- BA English & BA Tamil**

Course Syllabus:

UNIT I – INTRODUCTION TO ONLINE MARKETING

Online Market space- Digital Marketing Strategy- Components - Opportunities for building Brand Website - Planning and Creation - Content Marketing.

UNIT II – SEARCH ENGINE OPTIMISATION

Search Engine optimisation - Keyword Strategy- SEO Strategy - SEO success factors -On-PageTechniques - Off-Page Techniques. Search Engine Marketing- How Search Engine works- SEM components- PPC advertising -Display Advertisement

UNIT III – E- MAIL MARKETING

E- Mail Marketing - Types of E- Mail Marketing - Email Automation - Lead Generation -Integrating Email with Social Media and Mobile- Measuring and maximizing email campaign effectiveness. Mobile Marketing- Mobile Inventory/channels- Location based; Context based;Coupons and offers, Mobile Apps, Mobile Commerce, SMS Campaigns-Profiling and targeting

UNIT IV – SOCIAL MEDIA MARKETING

Social Media Marketing - Social Media Channels- Leveraging Social media for brand conversations and buzz. Successful /benchmark Social media campaigns. Engagement Marketing- Building Customer relationships - Creating Loyalty drivers - Influencer Marketing.

UNIT V – DIGITAL TRANSFORMATION

Digital Transformation & Channel Attribution- Analytics- Ad-words, Email, Mobile, SocialMedia, Web Analytics - Changing your strategy based on analysis- Recent trends in Digital marketing.

Training Hours - 15 Hrs (Theory) + 30 Hrs (Practical) = 45 Hrs

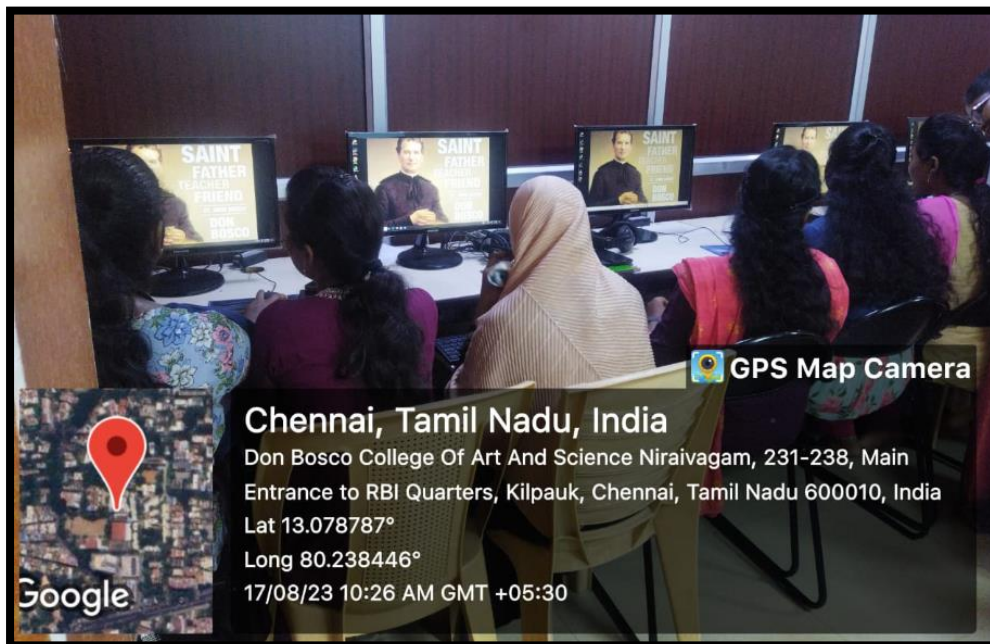


Naan Mudhalvan - InGage Technology Pvt.Ltd

College Name: Thiruthangal Nadar college

Course Name:

| Sl.No. | College Code | College Name | Student Name | NM ID | DAY 1 | DAY 2 | DAY 3 | DAY 4 | DAY 5 | Day 6 |
|--------|--------------|--------------|-----------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | Student | Student | Student | Student | Student | |
| | | | | | 10.08.23 | 11.08.23 | 12.08.23 | 13.08.23 | 14.08.23 | 15.08.23 |
| | | | | | Date | Date | Date | Date | Date | Date |
| 1 | 1435 | TNC | K. Deepak Shree | | K. Deepak Shree | K. Deepak Shree | K. Deepak Shree | K. Deepak Shree | K. Deepak Shree | K. Deepak Shree |
| 2 | 1435 | TNC | R. Sangeetha | | R. Sangeetha | R. Sangeetha | R. Sangeetha | R. Sangeetha | R. Sangeetha | R. Sangeetha |
| 3 | 1435 | TNC | S. Raniga devi | | S. Raniga devi | S. Raniga devi | S. Raniga devi | S. Raniga devi | S. Raniga devi | S. Raniga devi |
| 4 | 1435 | TNC | B. Bhavathi | | B. Bhavathi | B. Bhavathi | B. Bhavathi | B. Bhavathi | B. Bhavathi | B. Bhavathi |
| 5 | 1435 | TNC | A. Jaspriya | | A. Jaspriya | A. Jaspriya | A. Jaspriya | A. Jaspriya | A. Jaspriya | A. Jaspriya |
| 6 | 1435 | TNC | M. Anvika | | M. Anvika | M. Anvika | M. Anvika | M. Anvika | M. Anvika | M. Anvika |
| 7 | 1435 | TNC | N. Anvika | | N. Anvika | N. Anvika | N. Anvika | N. Anvika | N. Anvika | N. Anvika |
| 8 | 1435 | TNC | S. Anvika | | S. Anvika | S. Anvika | S. Anvika | S. Anvika | S. Anvika | S. Anvika |
| 9 | 1435 | TNC | A. Anvika | | A. Anvika | A. Anvika | A. Anvika | A. Anvika | A. Anvika | A. Anvika |
| 10 | 1435 | TNC | P. Anvika | | P. Anvika | P. Anvika | P. Anvika | P. Anvika | P. Anvika | P. Anvika |
| 11 | 1435 | TNC | L. Anvika | | L. Anvika | L. Anvika | L. Anvika | L. Anvika | L. Anvika | L. Anvika |





Name of the course: Story Telling

Departments: III Year- BA CPA & BSW

STORYTELLING COURSE

INTRODUCTION

Storytelling can serve many purposes: interpreting past and present, projecting a future, encouraging empathy, providing testimony, giving voice to personal realities, and more. The ability to share one's creative vision, thoughts, or products in a manner that is resonant to those within a target audience is critical in an array of situations. The resonant story is one that communicates to listeners, readers, or viewers in a manner that reflects a nuanced understanding of how one thinks, feels, reacts, and behaves. It is through depth of insight and effective communication that innovations diffuse, art is championed, content is consumed, services are rendered, products are purchased or adopted. This course explores the various written, spoken, and visual ways in which stories can be envisioned, assembled, and shared – both historically and in contemporary contexts across audiences and for different purposes, using existing or creating new multimedia methods and tools. Accompanying this exploration is instruction in communication theory and the narrative structures and content most effective at evoking a powerful and meaningful audience response. The course will take step-by-step, towards becoming a sharper speaker and storyteller. In a world of decreasing attention spans, impactful storytelling can unlock professional success. Effectively connecting and communicating with your audience can help you better collaborate, gain trust, and build a presence. This course on the Art of Storytelling will help to move the needle on confidence, communication, poise and presence towards delivering inspiring messages.

COURSE OBJECTIVE

- In this course students will learn how to build and communicate ideas, concepts and solutions using universal storytelling techniques.
- This course explores the fundamental principles and techniques of storytelling across various mediums. Students will delve into the structure, elements, and strategies employed in crafting compelling narratives.
- Through analysis, practice, and feedback, participants will develop their storytelling skills and gain a deeper understanding of the art form.
- Students will learn the history of storytelling, various types of stories, and best practices for gathering and telling stories.
- Storytelling can be used to educate, entertain, excite or calm, and to convey important information in a memorable way. Humans are coded for narrative and developing an understanding of story and its place in our lives adds a valuable skill to our professional toolkit.

COURSE OUTCOMES

- Understand the foundational and generalizable components of stories
- Discuss and utilize the power of story in various personal and professional situations;
- Differentiate between story types, form, context, and content.
- Discuss the effects of society and culture on stories and storytelling;
- Create independent narratives for effective use in an array of personal and organizational settings (e.g., design agency, firm, startup venture)
- Discuss the role of technology in relation to storytelling;
- Demonstrate proficiency in selecting and preparing stories for presentation;



COURSE SYLLABUS

1: Introduction to Storytelling

- Definition and importance of storytelling
- Historical and cultural perspectives
- The psychology of storytelling

2: Elements of a Story

- Character development
- Setting and world-building
- Plot and conflict

3: Narrative Structure

- The three-act structure
- Story arcs and pacing
- Subplots and secondary characters

4: Point of View and Voice

- First-person, third-person, and omniscient perspectives
- Developing a unique narrative voice
- Perspective shifts and their impact

5: Dialogue and Description

- Crafting authentic dialogue
- Balancing dialogue with narration
- Descriptive techniques and sensory detail

6: Themes and Symbolism

- Identifying themes in storytelling
- Symbolism and metaphor
- Using themes to enhance narrative depth

7: Genre and Style

- Exploring different storytelling genres
- Understanding genre conventions
- Developing a personal style

8: Adaptation and Transmedia Storytelling

- Adapting stories across different mediums (e.g., books to film)
- Transmedia storytelling techniques
- The impact of technology on storytelling

9: Storytelling in Marketing and Branding



Thiruthangal Nadar College
Knowledge is Power

NAAC CYCLE III – AQAR

1.1 Curriculum Planning and Implementation

1.1.1 Effective Curriculum Delivery

Year: 2023-2024

