



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



CRITERION 2 TEACHING AND LEARNING EVALUATION

2.2.1 The institution assesses the learning levels of the students and organizes special Programs for advanced learners and slow learners

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2.2.1 THE INSTITUTION ASSESSES THE LEARNING LEVELS OF THE STUDENTS AND ORGANISES SPECIAL PROGRAMMES FOR ADVANCED LEARNERS AND SLOW LEARNERS.

POLICY ON SLOW LEARNERS AND ADVANCED LEARNERS:

Students are admitted in the first year through (TNEA) counselling and Management quota & the Second year through TNEA lateral entry counselling & Management quota. The institution organizes Orientation programs and Bridge courses for freshers.

The JKKMCT is well aware of students' diverseness and is equally concerned about the students' learning outcomes.

At the commence of the program, marks secured by the students at +2 levels are categorizing.

Advanced Learners-Students scored 60% and above marks.

Slow Learners-Students scored Less than 60% marks.

After completion of the first semester university exam students Categorized.

Advanced Learners: Students with no arrear and with one arrear.

Slow learners: Students with four and above arrears.

STRATEGIES ADOPTED FOR SLOW LEARNERS:

- Conducting evening coaching classes and giving assignments.
- Giving question bank and previous year university question papers encouraging them to solve.
- Providing special emphasis through mentors to overcome the learning difficulties.



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STRATEGIES ADOPTED FOR ADVANCED LEARNERS:

- Participate in Technical events like paper presentations, Software contests, code debugging.
- The students attended internship training in various companies.
- The final year students completed their projects in various companies.
- The institute's career guidance cell motivates for Competitive examinations.


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ORIENTATION PROGRAMME

JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, TNPALAYAM

The Management, Principal & Staff

Cordially invites you all for

“First Year Engineering Students Inaugural Function”

On 7th August 2023 at 10.45a.m

With the blessings of

Mrs. KASTHURIPRIYA KRUPAKAR MURALI, M.B.A.,
Secretary,

JKK Munirajah College of Technology

IGNITE YOUR DREAMS, FUEL YOUR PASSION

BY

Mr. PRAVEEN KIRUBAKARAN

VENUE: AUDITORIUM, JKKMCT

ALL ARE WELCOME


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CIRCULAR

DATE: 01.08.2023

Our Institution is planning to organize first year Inauguration function on 07.08.2023 between 10.45 a.m. to 11.45 a.m.

Title: IGNITE YOUR DREAMS, FUEL YOUR PASSION"

Chief Guest: Mr. PRAVEEN KIRUBAKARAN

Motivational Speaker,


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JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM I YEAR INAUGURATION FUNCTION 2023 PROGRAMME SCHEDULE

10.45-10.50 am	PRAYER SONG	STAFF MEMBERS
10.45-10.50 am	WELCOME ADDRESS	Dr.K. SRIDHARAN, Principal, J.K.K. Munirajah College of Technology, T.N. Palayam.
10.50-11.00am	CHIEF GUEST INTRODUCTION	Dr.C. MURUGESAN, Vice Principal, J.K.K. Munirajah College of Technology, T.N. Palayam.
11.00-11.30am	INAUGURAL ADDRESS	Mr. PRAVEEN KIRUBAKARAN Motivational Speaker
11.30-11.45 am	VOTE OF THANKS	Mr. M. PONNUSAMY HOD / S&H J.K.K. Munirajah College of Technology, T.N. Palayam


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I YEAR INAUGURATION FUNCTION 2023

AGENDA

INVOCATION

WELCOME ADDRESS

Dr. K. SRIDHARAN

Principal,

Jkk Munirajah College of Technology.

CHIEF GUEST INTRODUCTION

Dr.C. MURUGESAN

Vice principal,

JKK Munirajah College of Technology.

INAUGURAL ADDRESS

Mr.PRAVEEN KIRUBAKARAN

Motivational Speaker.

VOTE OF THANKS

M.PONNUSAMY,

HOD / S&H.


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SAMPLE PHOTOGRAPHS FOR ORIENTATION PROGRAM



Welcome Address **Dr.K. SRIDHARAN**
Principal, JKKMCT

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Mrs.M. KASTHURIPRIYA KRUPAKAR MURALI, M.B.A.,
Secretary,



Dr.S. KRUPAKAR MURALI, Ph.D.,
Director of R&D


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DEPARTMENT OF SCIENCE AND HUMANITIES

DATE:11.08.2023

INAUGURAL FUNCTION REPORT

The inaugural function was started on 07.08.2023 at 10.45 am at JKK Munirajah College of Technology in our TN Palayam campus we are planned earlier and before that we are started and finished the registration process from 9.30 to 10.30 am nearly 200 students are participated.

Chief guest. the function started with prayer song and our respected principal **Dr.K.SRIDHARAN** delivered the welcome address along with some unique features of our institution. In his speech he mentioned the spreading wings of JKKMCT throughout TamilNadu and highlighted every year university results of institution.

Chief guest **MR. PRAVEEN KIRUBAKARAN** started his speech around 11.00 AM with his unique and tactical manner. He used this opportunity to engage the students to participate his address and advice the new comers for engineering courses with his interaction method. Really it was a lively wonderful session to everyone in the hall, enjoyed the hours and he finished his chief guest address sharply at 11.30 AM after an elaborate interaction with the antic course some slide show for his demonstration which was very effective and useful particularly the student participants. A lively interaction also happened at end of the session, many of the participants asked question and its gives immense pleasure to all.

Totally inaugural function ended with a great success and it fulfilled the desire of the students **M.PONNUSAMY, HOD/S&H** J.K.K. Munirajah Campus proposed the vote of thanks and the inaugural function ended around 11.55 AM.



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DEPARTMENT OF SCIENCE AND HUMANITIES

DATE:14.10.2023

CIRCULAR

The first-year coordinator is instructed to prepare the slow learners and advanced learners student name list based on their 12th standard mark for the academic year 2023-24.

HOD

Copy to

1. The Office
2. All Department
3. The IQAC Cell


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DEPARTMENT OF SCIENCE AND HUMANITIES
SLOW LEARNERS NAME LIST
ACADEMIC YEAR 2023-2024

It is here by informed the following students are identified as slow learners.

BATCH: 2023-2027

ARTIFICIAL INTELLIGENCE&DATA SCIENCE

S. No	Roll No	Name of the Student	Branch	% Of 12 th St. Marks
1	731223243004	AL AMEEN	I-AI&DS	58
2	731223243007	DHANUSHIYA	I-AI&DS	58
3	731223243008	DHUSENDRAN	I-AI&DS	58
4	731223243012	INDHUPRASANTH	I-AI&DS	57
5	731223243015	JAYALAKSHMI	I-AI&DS	51
6	731223243023	MAJNU	I-AI&DS	50
7	731223243025	MAYAKANNAN	I-AI&DS	59
8	731223243030	NITHYANANDHAM	I-AI&DS	52
9	731223243032	PRADHAAP	I-AI&DS	53
10	731223243034	RAJAPPA	I-AI&DS	46
11	731223243035	RAJARAVINDHAN	I-AI&DS	43
12	731223243037	RANJITH	I-AI&DS	58



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CSE (CYBER SECURITY)

S. No	Roll No	Name of the Student	Branch	% of 12 th St. Marks
1	731223149001	ADHAVAN	I-CSE(CS)	49
2	731223149002	CHANDHRU	I-CSE(CS)	58.80
3	731223149005	HARIRAM	I-CSE(CS)	59.10
4	731223149009	PASUPATHAN	I-CSE(CS)	57.50
5	731223149010	RANGANATHAN	I-CSE(CS)	52
6	731223149013	SATHISH KUMAR	I-CSE(CS)	59
7	731223149015	SIVA KUMAR	I-CSE(CS)	58.10
8	731223149018	VENKATESH	I-CSE(CS)	45.80
9	731223149019	VIGNESHWARAN	I-CSE(CS)	58.33

AUTOMOBILE

S. No	Roll No.	Name of the Student	Branch	% of 12 th St. Marks
1	731223102004	SRIRAM	I-ECE	41.6


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ECE

S. No	Roll No	Name of the Student	Branch	% Of 12 th St. Marks
1	731223106001	AKILA	I-ECE	54
2	731223106002	ANISH	I-ECE	48
3	731223106003	ARISH	I-ECE	57.5
4	731223106005	BHUVANESHWARI	I-ECE	51.83
5	731223106006	DEVANANTH	I-ECE	55.5
6	731223106009	ILAYACIBI	I-ECE	50.8
7	731223106010	JAISON	I-ECE	58.6
8	731223106012	KARTHIK	I-ECE	50
9	731223106015	MARUTHANAYAGAM	I-ECE	55
10	731223106016	NANDHAKUMAR	I-ECE	50
11	731223106019	PRAVINKUMAR	I-ECE	58
12	731223106021	RANJANIDEVI	I-ECE	54.9
13	731223106026	TAMILSELVAN	I-ECE	47
14	731223106028	SHALINI	I-ECE	54



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DEPARTMENT OF SCIENCE AND HUMANITIES

ADVANCED LEARNERS NAME LIST

ACADEMIC YEAR 2023-2024

It is here by informed the following students are identified as Advanced learners.

BATCH: 2023-2027

ARTIFICIAL INTELLIGENCE&DATA SCIENCE

S. No	Roll No	Name of the Student	Branch	% of 12 th Std.Marks
1	731223243002	AKALYA	I-AI&DS	68
2	731223243003	AKHIL DEV	I-AI&DS	68
3	731223243005	ANAS	I-AI&DS	66
4	731223243009	DILNA	I-AI&DS	74
5	731223243010	GOWRI	I-AI&DS	87
6	731223243011	HARINI	I-AI&DS	78
7	731223243012	HASARUDEEN	I-AI&DS	61
8	731223243014	JANA	I-AI&DS	70
9	731223243015	JANANI	I-AI&DS	82
10	731223243017	JOTHI	I-AI&DS	70
11	731223243018	KARAN	I-AI&DS	63
12	731223243019	KARTHIK	I-AI&DS	65
13	731223243020	KEERTHANA	I-AI&DS	80



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S. No	Roll No	Name of the Student	Branch	% of 12 th Std.Marks
14	731223243021	KIRUBHA	I-AI&DS	72
15	731223243022	MAHALAKSHMI	I-AI&DS	71
16	731223243024	MANJUNATH	I-AI&DS	68
17	731223243026	MUTHAMIZHAN	I-AI&DS	72
18	731223243027	NAGAMANI	I-AI&DS	68
19	731223243028	NAVEEN	I-AI&DS	78
11	731223243029	NAVYA	I-AI&DS	71
12	731223243033	PRAVEENRAJA	I-AI&DS	79
13	731223243036	RAJASEKAR	I-AI&DS	70
14	731223243038	SANKARANARAYANAN	I-AI&DS	61
15	731223243039	SATHISHKUMAR	I-AI&DS	60
16	731223243040	SENTHAMILSELVI	I-AI&DS	64
17	731223243041	SIDDARTH	I-AI&DS	64
18	731223243043	SUJITHKUMAR	I-AI&DS	63
19	731223243044	SURAJ	I-AI&DS	67
20	731223243045	THAMILKUMARAN	I-AI&DS	77
21	731223243046	THANAVARSITH	I-AI&DS	73
22	731223243047	VISHALINI	I-AI&DS	62
23	731223243048	VISHNU VARTHAN	I-AI&DS	82.5



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CSE (CYBER SECURITY)

S. No	Roll No	Name of the Student	Branch	% of 12 th Std. Marks
1	731223149003	DHATCHAYINI. V	I-CSE(CS)	74.10
2	731223149004	GOWSIKA P	I-CSE(CS)	73
3	731223149006	MEIYAZHAGAN	I-CSE(CS)	64.80
4	731223149007	NANDHAKUMAR	I-CSE(CS)	71.80
5	731223149008	PADMAPRIYA	I-CSE(CS)	75.50
6	731223149011	RANIL	I-CSE(CS)	61.60
7	731223149012	SANDHIYA	I-CSE(CS)	60
8	731223149016	TAMILARASAN	I-CSE(CS)	64.33
9	731223149017	THIRUMALAI	I-CSE(CS)	65.00
10	731223149020	VIJI	I-CSE(CS)	66.33
11	731223149022	YOGESH	I-CSE(CS)	71
12	731223149023	YUVANANDHINI.	I-CSE(CS)	69.10

AUTOMOBILE

S. No	Roll No.	Name of the Student	Branch	% of 12 th St. Marks
1	731223102002	DHANUSH	I AUTO	74



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ECE

S. No	Roll No	Name of the Student	Branch	% of 12 th Std. Marks
1	731223106004	BARANITHARAN	I -ECE	64.6
2	731223106007	DHANALAKSHMI	I -ECE	82.5
3	731223106008	GOWTHAM	I -ECE	68
4	731223106011	JAYAKUMAR	I -ECE	85.5
5	731223106013	KARTHIKADEVI	I -ECE	72.3
6	731223106014	MAHALAKSHMI	I -ECE	63.3
7	731223106017	NAVEEN	I -ECE	64.8
8	731223106018	PERARASU	I -ECE	72
9	731223106020	RAJESHWARI	I -ECE	72
10	731223106022	SENEGAA	I -ECE	64
11	731223106023	SHANMUGAM	I -ECE	85
12	731223106024,	SIVA	I -ECE	72
13	731223106025	SNEKA	I -ECE	75
14	731223106027	VAITHESHWARI	I -ECE	64

CIVIL

S. No	Roll No	Name of the Student	Branch	% of 12 th St. Marks
1	731223103003	LISHA	I CIVIL	72.5
2	731223103004	PRIYANGA	I CIVIL	75.66



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BRIDGE COURSE


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DEPARTMENT OF SCIENCE AND HUMANITIES

DATE:14.09.2023

Bridge Course Curriculum- Academic Year 2023-2024

The following subjects are identified to bridge between school level and Engineering college level of the students.

S.No	Subject	Course Coordinator	No. of Hours Planned
1.	English	Mr.E.MATHIVANAN	20
2.	Mathematics	Mrs.R.SHANTHI	25
3.	Engineering Physics	Mrs.M.KAVITHA	20
4.	Engineering Chemistry	Mr.M.PONNUSAMY	20
5.	Problem Solving and Python Programming	Dr.N.SATHYABALAJI	20

HOD


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DEPARTMENT OF SCIENCE AND HUMANITIES

BRIDGE COURSE TIME TABLE

Semester: 1

Academic Year: 2023-2024

Class: I- (B.E/B.Tech- CSE/AI&DS/IT)

DAY/ PERIOD	10.00 AM- 10.50 AM	10.50 AM- 11.30 AM	11.30 AM- 12.20 PM	12.20 PM - 02.00 PM	02.00 PM - 02.50 PM	02.50 PM - 03.10 PM	03.10 PM - 04.00 PM
	I		II		III		IV
MON	ENG		PHY		CHEM		PSPP
TUE	PHY		PSPP		ENG		MAT
WED	CHEM		MAT		PHY		CHEM
THU	MAT		CHEM		PSPP		ENG
FRI	PSPP		ENG		MAT		PHY

SUBJECT CODE	SUBJECT NAME	FACULTYNAME	NO. OF PERIODS
MA3151	COMMUNICATIVE ENGLISH (ENG)	E. MATHIVANAN	5
MA3151	ENGINEERING MATHEMATICS (MAT)	S. SAMYUKTHA	6
PH3151	ENGINEERING PHYSICS (PHY)	M.KAVITHA	4
CY3151	ENGINEERING CHEMISTRY (CHEM)	M.SENBAGAM	4
GE3151	PROBLEM SOLVING AND PYTHON PROGRAMMING (PSPP)	G. TAMILSELVAN	5

TUTOR	E. MATHIVANAN
CO-TUTOR	M.KAVITHA
MENTOR	M.SENBAGAM

M. Sanyal
HOD/I-YEAR

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DEPARTMENT OF SCIENCE AND HUMANITIES BRIDGE COURSE TIME TABLE

Semester: 1 Academic Year: 2023-2024 Class: I- (B.E-EEE/ECE/MECH/AUTO/CIVIL)

DAY/ PERIOD	10.00 AM- 10.50 AM	10.50 AM- 11.30 AM	11.30 AM- 12.20 PM	12.20 PM - 02.00 PM	02.00 PM - 02.50 PM	02.50 PM - 03.10 PM	03.10 PM - 04.00 PM
	I		II		III		IV
MON	CHEM		PSPP		ENG		PHY
TUE	ENG		MAT		PHY		PSPP
WED	PHY		CHEM		CHEM		MAT
THU	PSPP		ENG		MAT		CHEM
FRI	MAT		PHY		PSPP		ENG

SUBJECT CODE	SUBJECT NAME	FACULTYNAME	NO. OF PERIODS
MA3151	COMMUNICATIVE ENGLISH (ENG)	E. MATHIVANAN	5
MA3151	ENGINEERING MATHEMATICS (MAT)	R. SHANTHI	6
PH3151	ENGINEERING PHYSICS (PHY)	P. RAMESH	4
CY3151	ENGINEERING CHEMISTRY (CHEM)	M.SENBAGAM	4
GE3151	PROBLEM SOLVING AND PYTHON PROGRAMMING (PSPP)	G. TAMILSELVAN	5

TUTOR	P. MAHASAKTHI
CO-TUTOR	P. RAMESH
MENTOR	R. SHANTHI

M. G. S. S.
HOD/I-YEAR

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DEPARTMENT OF SCIENCE AND HUMANITIES

BRIDGE COURSE SYLLABUS

HS3151- PROFESSIONAL ENGLISH

INTRODUCTION TO FUNDAMENTALS OF COMMUNICATION

8

Reading - Reading brochures (technical context), telephone messages / social media messages relevant to technical contexts and emails. Writing - Writing emails / letters introducing oneself. Grammar - Present Tense (simple and progressive); Question types: Wh/ Yes or No/ and Tags. Vocabulary - Synonyms; One word substitution; Abbreviations & Acronyms (as used in technical contexts).

UNIT I INTRODUCTION TO EFFECTIVE COMMUNICATION I

What is effective communication? (Explain using activities) Why is communication critical for excellence during study, research and work? What are the seven C's of effective communication? What are key language skills? What is effective listening? What does it involve? What is effective speaking? What does it mean to be an excellent reader? What should you be able to do? What is effective writing? How does one develop language and communication skills? What does the course focus on? How are communication and language skills going to be enhanced during this course? What do you as a learner need to do to enhance your English language and communication skills to get the best out of this course?

UNIT II NARRATION AND SUMMATION

9

Reading - Reading biographies, travelogues, newspaper reports, Excerpts from literature, and travel & technical blogs. Writing - Guided writing-- Paragraph writing Short Report on an event (field trip etc.) Grammar –Past tense (simple); Subject-Verb Agreement; and Prepositions. Vocabulary - Word forms (prefixes& suffixes); Synonyms and Antonyms. Phrasal verbs.

UNIT III DESCRIPTION OF A PROCESS / PRODUCT

9

Reading – Reading advertisements, gadget reviews; user manuals. Writing - Writing definitions; instructions; and Product /Process description. Grammar - Imperatives; Adjectives; Degrees of comparison; Present & Past Perfect Tenses. Vocabulary - Compound Nouns, Homonyms; and Homophones, discourse markers (connectives & sequence words).



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UNIT IV CLASSIFICATION AND RECOMMENDATIONS

9

Reading – Newspaper articles; Journal reports –and Non Verbal Communcation(tables, pie charts etc.,).
Writing – Note-making / Note-taking (*Study skills to be taught, not tested); Writing recommendations; Transferring information from non verbal(chart , graph etc, to verbal mode)
Grammar – Articles; Pronouns - Possessive & Relative pronouns. Vocabulary - Collocations; Fixed / Semi fixed expressions.

UNIT V EXPRESSION

9

Reading – Reading editorials; and Opinion Blogs; Writing – Essay Writing (Descriptive or narrative).
Grammar – Future Tenses, Punctuation; Negation (Statements & Questions); and Simple, Compound & Complex Sentences. Vocabulary - Cause & Effect Expressions – Content vs Function words.



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MA3151 MATRICES AND CALCULUS

UNIT I MATRICES

Eigenvalues and Eigenvectors of a real matrix – Characteristic equation – Properties of Eigenvalues and Eigenvectors – Cayley - Hamilton theorem – Diagonalization of matrices by orthogonal transformation – Reduction of a quadratic form to canonical form by orthogonal transformation – Nature of quadratic forms – Applications: Stretching of an elastic membrane.

UNIT II DIFFERENTIAL CALCULUS

Representation of functions - Limit of a function - Continuity - Derivatives - Differentiation rules (sum, product, quotient, chain rules) - Implicit differentiation- Logarithmic differentiation - Applications: Maxima and Minima of functions of one variable.

UNIT III FUNCTIONS OF SEVERAL VARIABLES

Partial differentiation – Homogeneous functions and Euler's theorem – Total derivative – Change of variables – Jacobians – Partial differentiation of implicit functions – Taylor's series for functions of two variables – Applications: Maxima and minima of functions of two variables and Lagrange's method of undetermined multipliers.

UNIT IV INTEGRAL CALCULUS

Definite and Indefinite integrals - Substitution rule - Techniques of Integration: Integration by parts, Trigonometric integrals, Trigonometric substitutions, Integration of rational functions by partial fraction, Integration of irrational functions - Improper integrals - Applications: Hydrostatic force and pressure, moments and centres of mass.

UNIT V MULTIPLE INTEGRALS

Double integrals – Change of order of integration – Double integrals in polar coordinates – Area enclosed by plane curves – Triple integrals – Volume of solids – Change of variables in double and triple integrals – Applications: Moments and centres of mass, moment of inertia.



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PH3151 ENGINEERING PHYSICS

UNIT I MECHANICS

Multi-particle dynamics: Center of mass (CM) – CM of continuous bodies – motion of the CM – kinetic energy of the system of particles. Rotation of rigid bodies: Rotational kinematics – rotational kinetic energy and moment of inertia - theorems of M .I –moment of inertia of continuous bodies M.I of a diatomic molecule - torque – rotational dynamics of rigid bodies – conservation of angular momentum – rotational energy state of a rigid diatomic molecule - gyroscope - torsional pendulum – double pendulum –Introduction to nonlinear oscillations.

UNIT II ELECTROMAGNETIC WAVES

The Maxwell's equations - wave equation; Plane electromagnetic waves in vacuum, Conditions on the wave field - properties of electromagnetic waves: speed, amplitude, phase, orientation and waves in matter - polarization - Producing electromagnetic waves - Energy and momentum in EM waves: Intensity, waves from localized sources, momentum and radiation pressure - Cell-phone reception. Reflection and transmission of electromagnetic waves from a non-conducting medium-vacuum interface for normal incidence.

UNIT III OSCILLATIONS, OPTICS AND LASERS

Simple harmonic motion - resonance –analogy between electrical and mechanical oscillating systems - waves on a string - standing waves - traveling waves - Energy transfer of a wave - sound waves - Doppler effect. Reflection and refraction of light waves - total internal reflection - interference –Michelson interferometer – Theory of air wedge and experiment. Theory of laser - characteristics - Spontaneous and stimulated emission - Einstein's coefficients - population inversion - Nd-YAG laser, CO2 laser, semiconductor laser –Basic applications of lasers in industry.



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UNIT IV BASIC QUANTUM MECHANICS

Photons and light waves - Electrons and matter waves –Compton effect - The Schrodinger equation (Time dependent and time independent forms) - meaning of wave function - Normalization –Free particle - particle in a infinite potential well: 1D,2D and 3D Boxes- Normalization, probabilities and the correspondence principle.

UNIT V APPLIED QUANTUM MECHANICS

The harmonic oscillator(qualitative)- Barrier penetration and quantum tunneling(qualitative)- Tunneling microscope - Resonant diode - Finite potential wells (qualitative)- Bloch's theorem for particles in a periodic potential –Basics of Kronig-Penney model and origin of energy bands.



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CY3151 ENGINEERING CHEMISTRY

UNIT I WATER AND ITS TREATMENT

Water: Sources and impurities, Water quality parameters: Definition and significance of-color, odour, turbidity, pH, hardness, alkalinity, TDS, COD and BOD, fluoride and arsenic. Municipal water treatment: primary treatment and disinfection (UV, Ozonation, break-point chlorination). Desalination of brackish water: Reverse Osmosis. Boiler troubles: Scale and sludge, Boiler corrosion, Caustic embrittlement, Priming & foaming. Treatment of boiler feed water: Internal treatment (phosphate, colloidal, sodium aluminate and calgon conditioning) and External treatment – Ion exchange demineralization and zeolite process.

UNIT II NANOCHEMISTRY

Basics: Distinction between molecules, nanomaterials and bulk materials; Size- dependent properties (optical, electrical, mechanical and magnetic); Types of nanomaterials: Definition, properties and uses of – nanoparticle, nanocluster, nanorod, nanowire and nanotube. Preparation of nanomaterials: sol-gel, solvothermal, laser ablation, chemical vapour deposition, electrochemical deposition and electro spinning. Applications of nanomaterials in medicine, agriculture, energy, electronics and catalysis.

UNIT III PHASE RULE AND COMPOSITES

Phase rule: Introduction, definition of terms with examples. One component system - water system; Reduced phase rule; Construction of a simple eutectic phase diagram - Thermal analysis; Two component system: lead-silver system - Pattinson process.

Composites: Introduction: Definition & Need for composites; Constitution: Matrix materials (Polymer matrix, metal matrix and ceramic matrix) and Reinforcement (fiber, particulates, flakes and whiskers). Properties and applications of: Metal matrix composites (MMC), Ceramic matrix composites and Polymer matrix composites. Hybrid composites - definition and examples.



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UNIT IV FUELS AND COMBUSTION

Fuels: Introduction: Classification of fuels; Coal and coke: Analysis of coal (proximate and ultimate), Carbonization, Manufacture of metallurgical coke (Otto Hoffmann method). Petroleum and Diesel: Manufacture of synthetic petrol (Bergius process), Knocking - octane number, diesel oil - cetane number; Power alcohol and biodiesel.

Combustion of fuels: Introduction: Calorific value - higher and lower calorific values, Theoretical calculation of calorific value; Ignition temperature: spontaneous ignition temperature, Explosive range; Flue gas analysis - ORSAT Method. CO₂ emission and carbon footprint.

UNIT V ENERGY SOURCES AND STORAGE DEVICES

Stability of nucleus: mass defect (problems), binding energy; Nuclear energy: light water nuclear power plant, breeder reactor. Solar energy conversion: Principle, working and applications of solar cells; Recent developments in solar cell materials. Wind energy; Geothermal energy; Batteries: Types of batteries, Primary battery - dry cell, Secondary battery - lead acid battery and lithium-ion-battery; Electric vehicles - working principles; Fuel cells: H₂-O₂ fuel cell, microbial fuel cell; Supercapacitors: Storage principle, types and examples.

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GE3151 PROBLEM SOLVING AND PYTHON PROGRAMMING

UNIT I COMPUTATIONAL THINKING AND PROBLEM SOLVING 9

Fundamentals of Computing – Identification of Computational Problems - Algorithms, building blocks of algorithms (statements, state, control flow, functions), notation (pseudo code, flow chart, programming language), algorithmic problem solving, simple strategies for developing algorithms (iteration, recursion). Illustrative problems: find minimum in a list, insert a card in a list of sorted cards, guess an integer number in a range, Towers of Hanoi.

UNIT II DATA TYPES, EXPRESSIONS, STATEMENTS 9

Python interpreter and interactive mode, debugging; values and types: int, float, boolean, string, and list; variables, expressions, statements, tuple assignment, precedence of operators, comments; Illustrative programs: exchange the values of two variables, circulate the values of n variables, distance between two points.

UNIT III CONTROL FLOW, FUNCTIONS, STRINGS 9

Conditionals: Boolean values and operators, conditional (if), alternative (if- else), chained conditional (if-elif-else); Iteration: state, while, for, break, continue, pass; Fruitful functions: return values, parameters, local and global scope, function composition, recursion; Strings: string slices, immutability, string functions and methods, string module; Lists as arrays. Illustrative programs: square root, gcd, exponentiation, sum an array of numbers, linear search, binary search.

UNIT IV LISTS, TUPLES, DICTIONARIES 9

Lists: list operations, list slices, list methods, list loop, mutability, aliasing, cloning lists, list parameters; Tuples: tuple assignment, tuple as return value; Dictionaries: operations and methods; advanced list processing - list comprehension; Illustrative programs: simple sorting, histogram, Students marks statement, Retail bill preparation.

UNIT V FILES, MODULES, PACKAGES 9

Files and exceptions: text files, reading and writing files, format operator; command line arguments, errors and exceptions, handling exceptions, modules, packages; Illustrative programs: word count, copy file, Voter's age validation, Marks range validation (0-100).



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		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		1.	AKALYA R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	AKHIL DEVP	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	AL AMEEN A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	ANAS A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	DHANUSHYA A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	DHUSENDRAN D	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	DILNA R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	GOWRI R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	HARINI S	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/
10.	HASARUDEEN	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	INDHUPRASANTHS	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	JANA S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	JANANI P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	JAYALAKSHMI N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	JOTHIS	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	KARANS	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/


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DEPT: I-B.E (CSE) ACADEMIC YEAR: 2023-2024 BATCH: 2023-2027

S.NO	NAME OF THE STUDENT	09/10/23				10/10/23				11/10/23				12/10/23				13/10/23			
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1.	ADHAVAN B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	CHANDHRU B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	DHATCHAYINI V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	GOWSIKA P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	HARIRAM K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	MEIYAZHAGAN G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	NANDHAKUMAR Y	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	PADMAPRIYA P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	PASUPATHAN R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	RANGANATHAN S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	RANIL K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	SANDHIYA M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	SATHISH KUMAR S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	SIVA KUMAR K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	TAMILARASAN J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	THIRUMALAI S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	VENKATESHE	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
		1	AKILA.M	/	/	/	/	/	/	/	/	/	/	/	/	a	^	a	a	/	/
2	ANISHA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	ARISH.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	BARANITHARAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	BHUVANESHWARI.M	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	DEVANANTH.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	DHANALAKSHMI.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	GOWTHAM.R	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/
9	ILAYACIBUS.B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	JAISON.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	JAYAKUMAR.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	KARTHIK.A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	KARTHIKADEVIR	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	MAHALAKSHMI.M	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15	MARUTHANAYAGAM.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16	NANDHAKUMAR.M	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/

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17	NAVEEN.K.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18	PERARASU.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19	PRAVINKUMAR.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	RAJESHWARLA	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	RANJANIDEVLD	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22	SENEGAA.A	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23	SHANMUGAM.L	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24	SIVA.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25	SNEKA.M	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	FAMILSELVAN.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27	VAITHESHWARIP	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28	SHALINI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
SUBJECT		CIE	PEP	PE	Phy	PE	not	Phy	not	Phy	not	Phy	not	Phy	not	Phy	not	Phy	not
FACULTY SIGNATURE		[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]


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DEPT: I-B.E (AUTO) ACADEMIC YEAR: 2023-2024 BATCH :2023-2027

S.NO	NAME OF THE STUDENT	09/10/23				10/10/23				11/10/23				12/10/23				13/10/23			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	R.DIHANUSH	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	K.SRIRAM	/	/	/	/	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/
SUBJECT		chem PSP PE Phy PE				mat phy PSP phy Chem				PSP PE chem mat				mat phy PSP PE							
FACULTY SIGNATURE		[Signature]				[Signature]				[Signature]				[Signature]							

DEPT: I-B.E (CIVIL) ACADEMIC YEAR: 2023-2024 BATCH :2023-2027

S.NO	NAME OF THE STUDENT	09/10/23				10/10/23				11/10/23				12/10/23				13/10/23			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1	LISHA.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	PRIYANGA.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	SANGAVI.R	/	/	/	/	/	/	/	/	a	a	a	a	/	/	/	/	/	/	/	/
SUBJECT		chem PSP PE Phy PE				mat phy PSP phy Chem				mat PSP PE mat				chem mat phy PSP PE							
FACULTY SIGNATURE		[Signature]				[Signature]				[Signature]				[Signature]							

M. [Signature]
HOD/I-YEAR


[Signature]
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SAMPLE SUBJECT MATERIALS TO STUDENTS


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GE3151 PROBLEM SOLVING AND PYTHON PROGRAMMING

2 MARKS

1. What is an algorithm?

An algorithm is a finite number of clearly described, unambiguous do able steps that can be systematically followed to produce a desired results for given input in the given amount of time. In other word, an algorithm is a step by step procedure to solve a problem with finite number of steps.

2. What is Pseudo code?

Pseudocode is an informal high-level description of the operating principle of a computer program or algorithm. Pseudo means false and code refers to instructions written in programming language.

3. What is Problem Solving?

Problem solving is the systematic approach to define the problem and creating number of solutions. The problem solving process starts with the problem specifications and ends with a correct program.

4. Distinguish between algorithm and program.

	Algorithm	Program
1.	Systematic logical approach which is a well-defined, step-by-step procedure that allows a computer to solve a problem.	It is exact code written for problem following all the rules of the programming language.
2.	An algorithm is a finite number of clearly described, unambiguous do able steps that can be systematically followed to produce a desired results for given input in the given amount of time.	The program will accept the data to perform computation. Program=Algorithm + Data



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5. Define Flow chart.

A graphical representation of an algorithm. Flow charts is a diagram made up of boxes, diamonds, and other shapes, connected by arrows.

6. Write an algorithm to accept two numbers, compute the sum and print the result.

Step 1: Start

Step 2: Declare variables num1,num2 and sum,

Step 3: Read values num 1 and num2.

Step 4: Add and assign the result to sum.

Sum←num1+num2


Step 5: Display sum

28

7. Differentiate between iteration and recursion.

S.No	Iteration	Recursion
1.	Iteration is a process of executing certain set of instructions repeatedly, without calling the self function.	Iteration is a process of executing certain set of instructions repeatedly, by calling the self function repeatedly.
2.	Iterative methods are more efficient because of better execution speed.	Recursive methods are less efficient.
3.	It is simple to implement.	Recursive methods are complex to implement.

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8. What is Programming language? With example.

Programming Language is a formal language with set of instruction, to the computer to solve a problem. Java, C, C++, Python, PHP.

9. What are the steps for developing algorithms.

- Problem definition
- Development of a model
- Specification of Algorithm
- Designing an Algorithm
- Checking the correctness of Algorithm
- Analysis of Algorithm
- Implementation of Algorithm
- Program testing
- Documentation Preparation

10. What are the Guidelines for writing pseudo code?

- Write one statement per line
- Capitalize initial keyword
- Indent to hierarchy
- End multiline structure
- Keep statements language independent.



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HS3151- PROFESSIONAL ENGLISH

WH QUESTIONS

There are two main types of questions: Yes/No questions and WH- question. WH- questions are questions starting with WH-words including: *what, when, where, who, whom, which, whose, why and how*. Question words are used to ask about specific qualities, times, places, people and so on. Below is a list of question words and example sentences:


Question words	Meaning	Examples
who	person	Who's that? That's Nancy.
where	place	Where do you live? In Boston
why	reason	Why do you sleep early? Because I've got to get up early
when	time	When do you go to work? At 7:00
how	manner	How do you go? By car
what	object, idea or action	What do you do? I am an engineer
which	choice	Which one do you prefer? The red one.
whose	possession	Whose is this book? It's Alan's.
whom	object of the verb	Whom did you meet? I met the manager.
what kind	description	What kind of music do you like? I like quiet songs
what time	time	What time did you come home?
how many	quantity (countable)	How many students are there? There are twenty.


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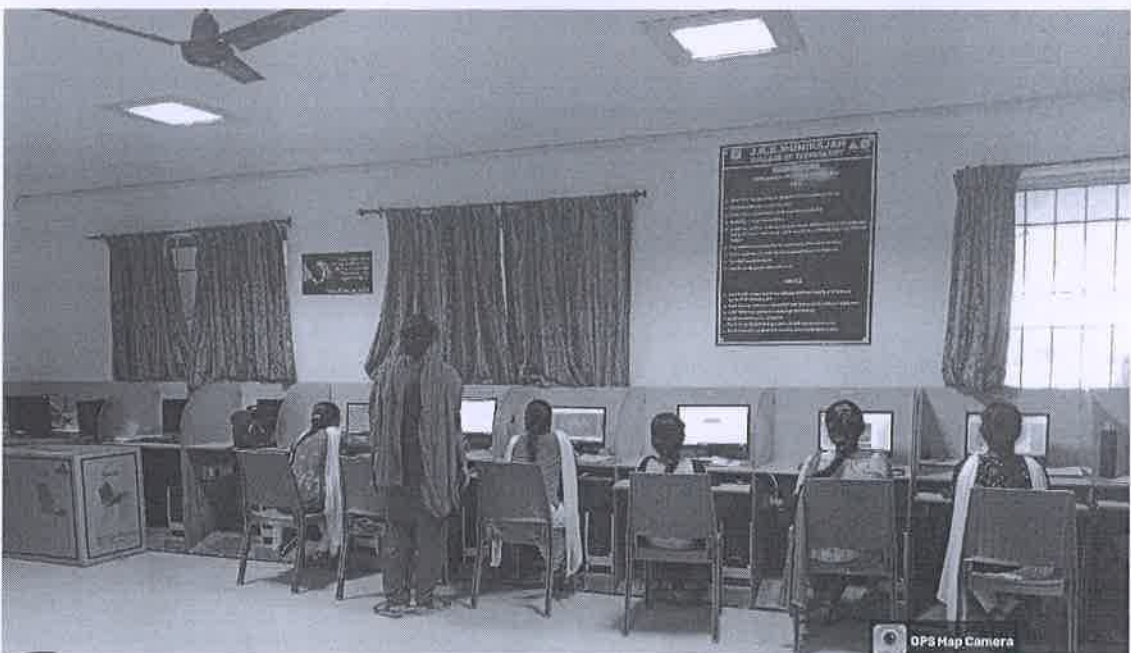
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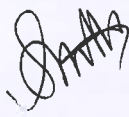



OUTCOME OF SLOW LEARNERS

Degree/Branch/Year/Sem: B.E/CSE/IV/VIII

BATCH:2020-2024

S.No	Register Number	Name of the Student	Total No. of Arrears in 2023 Odd Semester	Total No. of Arrears in 2024 Odd/Even Semester
1	731220104001	ABINAYA G	4	0
2	731220104004	CHARLES WILLIAM L	8	4
3	731220104005	DEEPAK S	9	4
4	731220104007	DHARANISELVI M	2	0
5	731220104009	JAGATHEESWARAN	7	2
6	731220104010	KARUNYAA M	3	0


HOD/CSE



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ACHIEVEMENT OF ADVANCED LEARNERS


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**FERTILIZER RECOMMENDATION
SYSTEM FOR DISEASE PREDICTION**



A PROJECT REPORT

Submitted by

S.DEEPIKA	(731220104006)
T.VINISHA	(731220104029)
A.VINITHA	(731220104030)

*in partial fulfillment for the award of the degree
of*

BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING

J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY
T.N.PALAYAM, GOBI-638 506

ANNA UNIVERSITY :: CHENNAI 600 025

MAY 2024

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BONAFIDE CERTIFICATE

Certified that this project report on "FARMERS AGRICULTURE ASSISTANCE CHATBOT" is the Bonafide work of "R. BALU (731220104003), S. DEEPAK (731220104005), M. KAVIN (731220104012), M. BOOPALAN (731220104301)" who carried out the project work under My supervision.


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HEAD OF THE DEPARTMENT

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 T.N. Palayam.


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Submitted for the Viva-Voce examination held on 10.05.2024 FN


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BONAFIDE CERTIFICATE

Certified that this project report on " AI RESUME ANALYZER USING MACHINE LEARNING AND DEEP LEARNING" is the Bonafide work of "T. LOGANATHAN (731220104014), S. NIRMALRAJ (731220104019), M. VIGNESII (731220104028)" who carried out the project work under my supervision.


SIGNATURE


SIGNATURE

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 Dept of Computer Science and Engineering
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 T.N.Palayam

Submitted for the Viva-Voce examination held on 10.05.2024 (CEN)


INTERNAL EXAMINER


EXTERNAL EXAMINER


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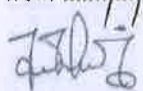


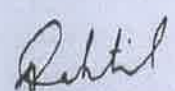
Ensemble nexgen


H.O: 116, Perna towers, 2nd Floor,
 Sakthi Road, Erode - 638 003
 Ph: 99522 21666

CERTIFICATE

This is to certify that Mr / Ms VINITHA.A.(BE.CSE).....of
Jkk...Munirajah...College...of...Technology.....has completed our
 Internship training in MERN...STACK...DEVELOPMENT.....
 from 25/1/24..... to 29/1/24.....conducted by Ensemble nexgen Erode.


ENSEMBLE NEXGEN
H.O: Faculty Towers,
 Veerabhadra Chetty Road,
 Near Hotel Oxford,
 Erode - 638 003


 Managing Director
Ensemble nexgen


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 Managing Director
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Your Dream We Display

Date: 13.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Mobile App Development submitted by **Mr. T. Loganathan** (731220104014) Studying B.E (Computer Science) at **J.K.K Munirajah College of Technology** has undergone internship training at our **Anjana Infotech Private Limited Rajapalayam**, as a collaborative activity from 03.07.2023 to 13.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.

M.S.

M SAKTHI SARAVANAN
Proprietor



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Anjana Infotech
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Date: 13.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Mobile App Development submitted by **Mr. M. Vignesh (731220104028)** Studying B.E (Computer Science) at, J.K.K Munirajah College of Technology has undergone internship training at our **Anjana Infotech Private Limited Rajapalayam**, as a collaborative activity from 03.07.2023 to 13.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.



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Since 2009



Date: 25.7.2023


This is to certify that M. KARUNYAA Reg.No: 731220104010 in BE-ITCSEI IIIrd
 year student of J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM has completed the
 Internship/In-plant Training under the WEB DEVELOPMENT in Durga Tech from 20.7.23 to 25.7.23

During this Internship/In-plant Training M. KARUNYAA found to be highly sincere, committed, hard
 working, progressive and professional towards her/his work and is capable of discharging her/his duties in a similar
 capacity and her/his conduct was found to be good during her/his period of Internship/In-plant Training.

We wish M. KARUNYAA success in her/his future endeavors in her/his career.

www.durgatech.org
 info.durgatech@gmail.com

Thanking You

Regards

 For Durga Tech
 78D, Sri Murugan Complex,
 Nachiappa 1st Street,
 Near Bus Stand, Erode - 638001
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Since 2009



Date: 25.07.2023


This is to certify that S. RAMYA Reg.No: 731220104021 in BE - [CSE] ^{IIIrd} year student of J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM has completed the Internship/In-plant Training under the WEB DEVELOPMENT in Durga Tech from 20.7.23 to 25.7.23

During this Internship/In-plant Training S. RAMYA found to be highly sincere, committed, hard working, progressive and professional towards her/his work and is capable of discharging her/his duties in a similar capacity and her/his conduct was found to be good during her/his period of Internship/In-plant Training.

We wish S. RAMYA success in her/his future endeavors in her/his career.

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Thanking You

Regards

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Since 2009



Date: 25.07.2023

This is to certify that T. ROSHMA Reg.No: 731220104023 in BE - [CSE] ^{1st} year student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, TN-PALAYAM has completed the Internship/In-plant Training under the WEB DEVELOPMENT in Durga Tech from 20.7.23 to 25.7.23

During this Internship/In-plant Training T. ROSHMA found to be highly sincere, committed, hard working, progressive and professional towards her/his work and is capable of discharging her/his duties in a similar capacity and her/his conduct was found to be good during her/his period of Internship/In-plant Training.

We wish T. ROSHMA success in her/his future endeavors in her/his career.

Regards



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**SAMCORE
SOLUTION**

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. / Ms. /

SIVALINHAM K (731220104024)

Student of BE-CSE, JKK MUNIRAJAH COLLEGE OF TECHNOLOGY

has completed the Internship Program on IMAGE PROCESSING

for the period from 10.07.2023 to 14.07.2023.

CERT. NO: 2023/07674

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Chatram Bus Stand, Trichy - 620002
9843207599. www.samcoresolution.in



C. A. Dennis
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