KALPATARU FIRST GRADE SCIENCE COLLEGE, TIPTUR

QUALITY INDICATOR FRAMEWORK (QIF)

CRITERION-1

1.3.2. PROJECT REPORTS

The Following are the Projects done by the Students in Various Subjects

Sl.no.	Academic year	Content	Department	Page number
1	2018-19	Title of the Project: Hospital Management	BCA	2-7
2	2019-20	Title of the Project :The study of plant diversity of the college campus for conservation through Ex Situ conservation method	Botany	8-13
3	2020-21	Title of the Project: Adaptation of Elephant	Zoology	14-18
4	2020-21	Title of the Projects: 1:Automatic Room Lights Using Arduino And PIR Sensor 2.Automatic Hand Sanitizer 3.Obstacle Avoiding Robot Using Arduino And Ultrasonic Sensor 4.Voice Controlled LED's Using Arduino And Bluetooth 5. RFID Based Attendance Based System	Electronics	19-30

Computer Science (BCA) 5th and 6th Semester Syllabus -2016
ABSTRACT

SEM	PAPER CODE	PAPER NAME	HRS / WEEK	EXAM HRS	MAX.MARKS		
5	BCACsT5.1	Core JAVA	03	03	10	90	100
	BCACsP5.2	JAVA programming Lab	03	03	-	50	50
	BCACsT5.3	DOT NET with C#	03	03	10	90	100
	BCACsP5.4	DOT NET Lab	03	03	-	50	50
	BCACsT5.5	Computer architecture	03	03	10	90	100
	BCACsP5.6	Micro processor Lab	03	03	-	50	50
	BCACsT5.7	Software Engineering	03	03	10	90	100
	BCACsP5.8	DBMS Mini Project	03	03	-	50	50
	BCACsT5.9	PHP and MySQL	03	03	10	90	100
	BCACsP5.10	PHP LAB	03	03	-	50	50
	BCACsT5.11	Data mining	03	03	10	90	100
	BCACsP5.12	SDLC lab	03	03	-	50	50
6	BCACsT6.1	Programming using Python	03	03	10	90	100
	BCACsP6.2	Python Lab	03	03	-	50	50
	BCACsT6.3	MIS and ERP	03	03	10	90	100
	BCACsP6.4	Tally Lab	03	03	-	50	50
	BCACsT6.5	Cryptography & Network Security	03	03	10	90	100
	BCACsP6.6	Computer Network Lab	03	03	-	50	50
	BCACsT6.7	Computer Graphics	03	03	10	90	100
	BCACsP6.8	Computer Graphics Lab	03	03	-	50	50
	BCACsT6.9	System Software	03	03	10	90	100
	BCACsP6.10	SSPD Lab	03	03	-	50	50
	BCACsT6.11	Artificial Intelligence	03	03	10	90	100
	BCACsP6.12	Project lab	03	03	-	50	50

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6thSem BCA
Paper: BCACsP6.12: PROJECT LAB
PRACTICAL

3Hrs /Week **50 Marks**

GUIDELINES FOR FINAL PROJECT WORK

- The aim of the Project work is to acquire practical knowledge on the implementation of theprogramming concepts studied.
- Project should be carried out in batch with minimum of three and maximum of five students, and it may be a work using the software packages that they have learned or the implementation ofconcepts from the papers studied or implementation of any innovative idea.
- The Project work should be compulsorily done in the college only under the supervision ofthe concerned department staff.

University Exam will be conducted as follows.

- Viva-voce will be conducted at the end of VI semester for 50 marks.
- Both the Examiners (50%+50%) should conductthe Viva-Voce Examination during practical session. Out of 50 marks, 25 for Project Evaluation and 25 for Viva. For awarding a pass, a candidate should have obtained 40% of the Total 100 marks.
- Report should be in A4 size paper and book binding with the following table of contents

1) Certificate
2) Acknowledgement
3) Synopsis
4) Contents
5) About the project
6) Analysis
7) Design
8) Coding
9) Testing
10) Reports/output
11) Conclusion
12) Bibliography

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5thSem BCA

Paper: BCACsP5.8: DBMS MINI PROJECT

3Hrs /Week **Marks: 50**

Students are expected to develop a DBMS mini project. Students can carry out the project in a group /team. The entire project to be submitted by each group/team with some related entity information.
Project should contain module to insert, update and report generation.

Scheme for Practical Examination

1. Writing about project.	:	10 Marks
2. Execution and demonstration of Project	:	30 Marks
3. Project report	:	5 Marks
4. Viva Voce	:	5 Marks
Total	:	**50 Marks**

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BCA-2018

5th Semester

DBMS

Project Report

COMPUTER SCIENCE

TUMKUR UNIVERSITY

DBMS MINI PROJECT REPORT

ON

"SNEHA S.P."

Submitted in practical
Fulfillment of requirements of the Award of the

5TH SEMESTER BCA

Submitted by

HOSPITAL MANAGEMENT

Project guide

Mr. M.S VINAY
H.O.D Dept of Computer Science

DEPARTMENT OF COMPUTER SCIENCE

KALPATARU FIRST GRADE SCIENCE COLLEGE

TIPTUR-572 201

2018-19

TUMKUR UNIVERSITY

KALPATARU FIRST GRADE SCIENCE OLLEGE
TIPTUR-572 201

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is certify that the DBMS MINI Project Report to the project entitled

"HOSPITAL MANAGEMENT"

Is the result of bonafied work done by

SNEHA S.P.

Student of 5th semester BCA (Bachelor of Computer Application) during the year 2018-19 in the award of "BCA in Computer Science" by the TUMKUR UNIVERSITY

Signature of the HOD | **Signature of the guide**

Mr. M.S VINAY
H.O.D of Computer Science

HoD of Computer Science
Kalpataru First Grade Science College
TIPTUR - 572 201

Practical Examination 20 -20
VALUED
Kalpataru First Grade Science College

Signature of the Examiners.

1. 2.

Principal
Kalpataru First Grade Science College
TIPTUR - 572201.

KALPATARU VIDYASAMSTHE [R]

Kalpataru First Grade Science College, Tiptur 572201

Department of Botany

Project report :

Title of the project : *" The study of plant diversity of the college campus for conservation through Ex situ conservation method "*

From : SUBHASH S

IIIBSc CBZ , VI semester

Paper VIII

Reg No : 17S12256

UNIVERSITY : TUMKUR UNIVERSITY

Principal
Kalpataru First Grade
Science College, Tiptur

TUMKUR UNIVERSITY

Kalpataru First Grade Science College

Tiptur 572201

Department of Botany

Certificate

This is to certify that project report has been satisfactorily carried out by **SUBHASH S**

The student of final degree [B.Sc CBZ] VIth semester in partial fulfillment for the award of degree in Botany prescribed by the Tumkur University during the academic year 2019- 20

Signature of the teacher

Incharge of the Batch

Signature of the H.O.D

Name: SUBHASH S

Reg NO: 17S12256

BOTANY

Principal
Kalpataru First Grade
Science College. Tiptur

Title of the project : ' The study of plant diversity of the college campus for conservation through Ex situ conservation method '

Introduction

Biodiversity is the very basis of Human survival and economic well being and constitutes the resources upon which families, communities, nations and future generations depend (Singh et al. 1994). The status and characteristics of biodiversity prevalent in a country/state/region is dependent on the land (Soil, topography),climate and people(their habitats and population density) inhabiting the region (Nayar 2011). India is one of the 33 hotspots of the world(conservation International 2007) and over 17,000 species of higher plants are reported to occur ,of which 7500 are used for health care by various ethnic groups [shivs 1996].about 60 % of the world and 80% of the population in developing countries relay on traditional medicines

In the different circumstances many wild edible plants have favored survival in times of food shortage and offering an important supplement to daily nutrition [Gonzalez et al ,2011]from nutritional point of view ,these plants play a major role in supplementing staples with micronutrients in many areas [Grivetti and ogle2000;Herzog et al 1994;Maundu 1996]

Scope of the present study:

A] plants plays an important role as a source of food , medicines ,

b] provide materials for industry ,

c] Gives different agricultural products,

Principal
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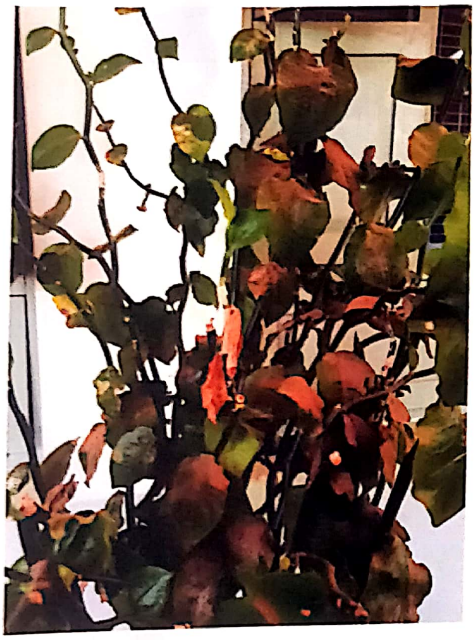
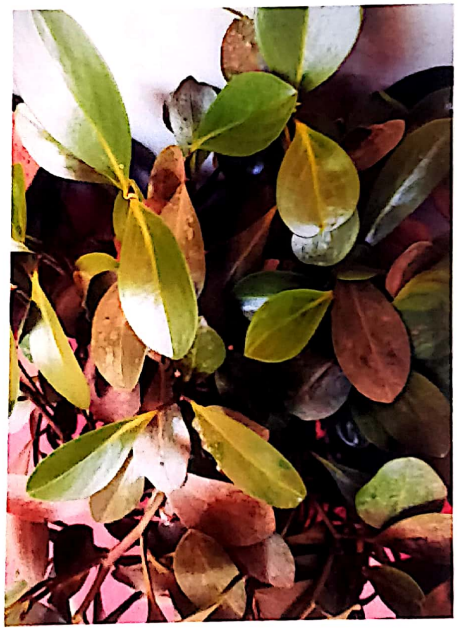
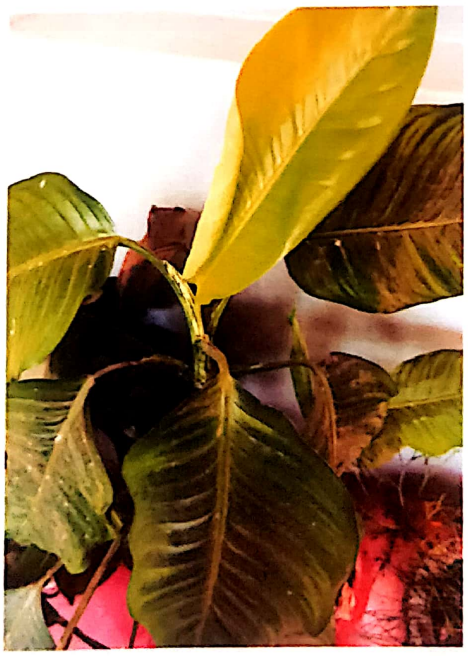
Science College, Tiptur




Conclusion and summary:

plants are natures most wonderful, abundant and useful organisms .The density and variety of plant population is getting deteriorated due to industrialization ,urbanization ,anthropogenic activities and indiscriminate use of plant resource .The present study in the study area ,it was revealed that the plant population includes trees shrubs ,herbs ,medicinal plants and ornamental plants .

and I would like conclude that the college campus will be a very good spot to conserve the various plant species of through Ex situ conservation method .

Principal
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Science College, Tiptur

Dept of Botany

V Semester –Paper –V

Taxonomy of Angiosperms, Economic Botany and Ethno botany

Theory-90 Marks

Credits 3

3 Hrs Theory per week

45 hrs

Unit- 1 Taxonomy

Principles of Taxonomy, A brief account of Classical and Modern Taxonomy .Systems of Classification-Broad outline of Bentham and Hooker's and Engler and Prantal's classifications with Merits and demerits, species concepts.

Plant Nomenclatures; Binomial system, ICBN principles and rules, effective and valid publications. Modern trends in Taxonomy- Cytotaxonomy, Chemotaxonomy, Numerical taxonomy and Cladostics

10 Hrs

Unit-2 Field and Herbarium techniques, Herbaria, Botanical gardens, Floras and their importance

4 **Hrs**

Unit-3 Study of the following families according to Engler and Prantl's system of classification

Monocotyledoneae -Poaceae ,Arecaceae, Musaceae, Orchidaceae,

Dicotyledoneae- Archichlamydeae: Magnoliaceae, Annonaceae, Brassicaceae, Rosaceae, Rutaceae, Euphorbiaceae, Malvaceae, Apiaceae

Metachlamydeae : Apocyanaceae, Asclepiadaceae, verbenaceae, Lamiaceae, Solanaceae, Rubiaceae, Cucurbitaceae, Asteraceae,

10 Hrs

Unit-4 Economic Botany Cultivation aspects not required) Study of the following plants with respect to Botanical name, family, part used and uses.

1. Cereals and Millets:		Rice, Wheat, Ragi, Maize.
2. Pulses	:	Bengal gram Pigeon pea, Black gram, green gram.
3. Fibre plants	:	Cotton, jute, coir.
4. Oil yielding plants:		Ground nut coconut, Sunflower, Safflower.
5. Timber	:	Rosewood, Teakwood.
6. Spices and Condiments:		Clove, Cardamom, Cinnamon, Pepper, Saffron.
7. Beverages	:	Coffee and Tea.
8. Narcotic plants	:	Opium, Cannabis and Tobacco
9. Perfumes	:	Jasmine, Sandal.

6 Hrs

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V SEMESTER PRACTICALS-V (5.9 A)
BASED ON GENETICS AND EVOLUTIONARY BIOLOGY
CREDITS-2 15 Units

1 Study of Mendelian inheritance(Monohybrid and Dihybrid crosses -4 problems
Gene interactions(Blood groups, Sex linked inheritance) -4 problems

2 Drosophila Genetics :a)Male and Female Identification b) Syndrome Identification

3 Study of Human Karyotypes: Normal and Abnormal(Turner's, Klinefelter's, Down's and Cri-du-Chat syndrome)

4 Study of a) Homologous organs b) Analogous organs with suitable specimens/pictures
a) Mouthparts of cockroach and Female mosquitoe
b) Wing of Bird, Wing of Insect and Patagium of Bat

5 Study of Vestigial organs from suitable Specimens/Pictures.
(Vermiform appendix, Wisdom tooth and Coccyx)

6 Study of Fossil evidences from suitable Specimens/Pictures:
Ichthyosaurus, Brontosaurus, Stegosaurus and Archaeopteryx

7 Charts:
a) Identification and comment on fossil records of Man- Pictures
Ramapithecus, Australopithecus, Pithecanthropus erectus, Pithecanthropus pekinesis, Neanderthal man and Cromagnon man.(Any three)

b) Identification and comment on fossil records of Horse- Pictures
Hyracotherium,Mesohippus,Merychippus,Pliohippus and Equus.(Any three)

8 Submission on Project report on 1) Evolution of Elephant. 2) Evolution of Camel
3) DNA Finger printing or Human Genome Project
4) Application of Genetic engineering in Agriculture, Pharmaceuticals and Food technology
5) Dinosaurs 6) Fossils

(Note: Except the photographs rest of the information to be hand written)

V SEMESTER PRACTICALS-V (5.9 A)
BASED ON GENETICS AND EVOLUTIONARY BIOLOGY
SCHEME OF EXAMINATION

DURATION:3 Hours **MAX.MARKS:50**

Q 1. Problems on a) Monohybrid or Dihybrid crosses (one problem) 04Marks
b) Blood groups or Sex linked inheritance(one problem) 05Marks

Q 2 Drosophila Genetics :a)Male and Female Identification 2 ½
b) Syndrome Identification 2 ½ 05Marks

Q 3. Identify and comment -Human Karyotypes (Normal and Abnormal) 2x4= 08 Marks

Q 4. Identify and comment
a) Homologus or Analogous or Vestigial organs (Any one)
b) Study of Fossil evidence: picture or model (Any one) 3x2= 06 Marks

Q 5. Identify and Comment on(Pictures)
a) Phylogeny of Man (Any two) 3x2= 06 Marks
b) Phylogeny of Horse(Any two) 3x2= 06 Marks

Q 6. Submission of Project report 05 Marks
(Specified in practical syllabus-5.9A)

Q 7. Class records 05 Marks

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TIPTUR 1982

सा विद्या या विमुक्तये

Department of Zoology

This is to certify that **ANJANA S** Student of **III B.Sc, CBZVI**Semester has successfully completed the Project Report on **"ADAPTATION OF ELEPHANT ".** under the active guidance and submitted in partial fulfillment of the requirement for the award of B. Sc, prescribed by **TUMKUR UNIVERSITY** for the academic year **2020-2021**.

Signature of the Staff In charge

Signature of the H.O.D.

and

HoD of Zoology

Kalpataru First Grade Science College

Signature of the Examiners

1.

VALUED

2. Examiners

1) .....

2) .....

30/8/21

Submitted by:

Name: ANJANA S

Class III B.Sc, CBZ, VI Semester

REG. No :- 18S22004

Principal

Kalpataru First Grade Science College, Tip

ACKNOWLEDGEMENT

I am pleased to acknowledge my sense of gratitude to Professor G.C. Mallikarjunaswamy, HoD of Zoology, Kalpataru First Grade Science College, Tiptur for his valuable guidance, suggestions and enthusiastic encouragement helped me to complete my project work.

I also express my sincere thanks to Professor Y.R.Somashekharaiah and L.N.Bharath Kumar for their encouragement.

I wish to express my sincere thanks to my beloved Parents, Friends, Prakasha.V.P and Sudhakara. M.S for their extensive support, co-operation and consistent endurance made me complete this project successfully.

NAME:.ANJANA S

III BSc CBZ

KFGSC,TIPTUR

Principal
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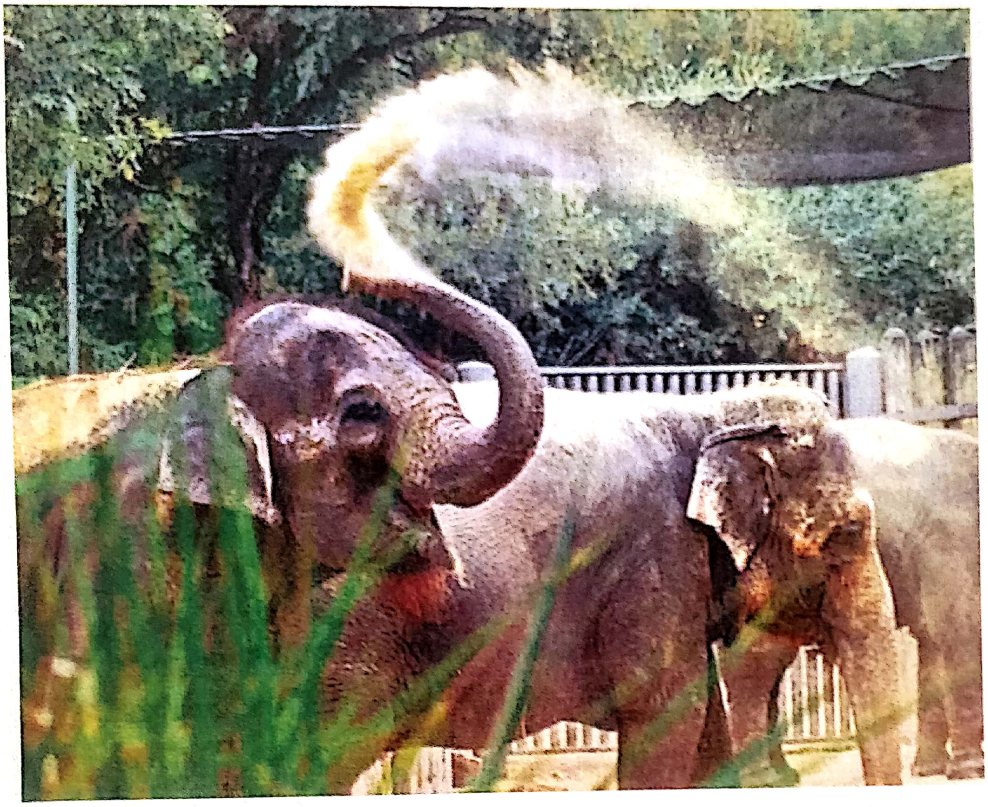
Science College, Tiptur



INDIAN ELEPHANT BATHING IN MUD

ELEPHANT WITH CALF

VI Conclusion

Since 1986, Elephas maximus [Indian elephant] has been listed as endangered Species by IUCN as the population has declained by atleast 50% over the last three generations, estimated to be 60-75 years. The Species is pre eminently threatned by habitat loss, degradation and fragmentation.

So we have aim to Conserve the largest land mammal Species — Elephas maximus indicus [Indian elephant].

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Science College, Tiptur

Department of Electronics

Tumkur University Syllabus for Electronics (CBCS)

SEMESTER- VI

PAPER-VIII: TRANSMISSION LINES, ANTENNA AND WIRELESSNETWORKS

(Credits: Theory-03, Practicals-1.5) Theory: 45 Lectures

UNIT-I

Electromagnetic Wave Propagation: Propagation in Good Conductors, Skin Effect, Reflection of uniform Plane Waves at normal incidence, Plane Wave reflection at Oblique Incidence, Wave propagation in dispersive media, concept of phase velocity and group velocity. **(8 Lectures)**

UNIT-II

Transmission Lines: Typical Transmission lines- Co-axial, Two Wire, Microstrip, Coplanar and Slot Lines, Transmission Line Parameters, Transmission Line Equations, Wave propagation in Transmission lines, low loss, lossless line, Distortionless line, Input Impedance, Standing Wave Ratio, Power. and lossy lines, Shorted Line, Open-Circuited Line, Matched Line, Smith Chart, Transmission Line Applications.

(10 Lectures)

UNIT-III

Radiation of electromagnetic waves: Concept of retarded potentials, Antenna Parameters: Radiation Mechanism, Current Distribution on a Thin Wire Antenna, Radiation Pattern, Radiation Power Density, Radiation Intensity, Beam width, Directivity, Antenna Efficiency, Gain, Beam Efficiency, Bandwidth, Polarization, Input Impedance Antenna Radiation Efficiency, Effective Length and Equivalent Areas, Maximum Directivity and Maximum Effective Area, Frii's Transmission Equation and Radar Range Equation

Types of Antenna: Hertzian dipole, Half wave dipole, Quarter-wave dipole, Yagi-Uda, microstrip, Parabolic antenna, Helical antenna, Antenna array. **(12 Lectures)**

UNIT-IV

Wireless Networks

Introduction: History of wireless communication, Wireless Generation and Standards, Cellular and Wireless Systems, Current Wireless Systems, Cellular Telephone Systems, Wide Area Wireless Data Services, Broadband Wireless Access, Satellite Networks, Examples of Wireless Communication Systems. Idea about Global Mobile communication system. **(8 Lectures)**

Modern Wireless Communication Systems: Second Generation (2G) Cellular Networks, Third Generation (3G) Wireless Networks, Wireless Local Loop (WLL),Wireless Local Area Networks (WLANs), Bluetooth and Personal Area Networks(PANs). Idea about Wi-Fi, 4G and LTE, and 5G.

(7 Lectures)

Reference Books:

1. M. N. O. Sadiku, Principles of Electromagnetics, Oxford University Press (2001)
2. Karl E. Longren, Sava V. Savov, Randy J. Jost., Fundamentals of Electromagnetics with MATLAB,PHI
3. W. H. Hayt and J.A. Buck, Engineering Electromagnetics, Tata McGraw Hill (2006)
4. D. C. Cheng, Field and Wave Electromagnetics, Pearson Education (2001)
5. J. A. Edminster, Electromagnetics, Schaum Series, Tata McGraw Hill (2006)
6. N. Narayan Rao, Elements of Engineering Electromagnetics, Pearson Education (2006)
7. G. S. N. Raju, Antennas and Propagation, Pearson Education (2001)
8. Ballanis, Antenna Theory, John Wiley & Sons, (2003) 2nd Ed.

9. Jordan and Balmain, E. C., Electro Magnetic Waves and Radiating Systems, PHI,1968 Reprint (2003) 3rd Ed.
10. Andrea Goldsmith, Wireless communications, (2015) Cambridge University Press
11. D. Tse and P. Viswanathan, Fundamentals of Wireless Communication, (2014) Cambridge University Press.
12. Wireless communication and Networks, Upena Dala, 2015, Oxford University Press.
13. Antenna and Wave Propagation, Yadava, PHI Learning.
14. Haykin S. &Moher M., Modern Wireless Communication, Pearson, (2005) 3rd Ed.
15. Lee, William C.Y., Mobile Communication Design and Fundamentals, (1999) 4th Ed

PRACTICALS

PAPER-VIII: TRANSMISSION LINES, ANTENNA AND WIRELESSNETWORKS

(Project work and Simulation based experiments)

(Scilab/MATLAB/Other Simulation Software)

1. Program to determine the phasor of forward propagating field
2. Program to determine the instantaneous field of a plane wave
3. Program to find the Phase constant, Phase velocity, Electric Field Intensity and Intrinsic ratio
4. Program to find skin depth, loss tangent and phase velocity
5. Program to determine the total voltage as a function of time and position in a loss less transmission line
6. Program to find the characteristic impedance, the phase constant and the phase velocity
7. Program to find the output power and attenuation coefficient
8. Program to find the power dissipated in the lossless transmission line
9. Program to find the total loss in lossy lines
10. Program to find the load impedance of a slotted line
11. Program to find the input impedance for a line terminated with pure capacitive impedance
12. Program to determine Directivity, Bandwidth, Beam width of an antenna
13. Program to determine diameter of parabolic reflector
14. Program to find out minimum distance between primary and secondary antenna

****

(Project work is compulsory in VI SEM in Practical)

2020-21

TUMKUR UNIVERSITY

A Project report on

"Automatic Room Lights Using Arduino and PIR Sensor"

Submitted in the partial fulfillment of requirement for the award of

BACHELOR OF SCIENCE

For the academic year 2020-21

SUBMITTED BY

KAVITHA B S
(REG NO: 18S22165)

SHILPA H
(REG NO: 18S22177)

MEGHA M R
(REG NO: 18S22172)

RAMYA J S
(REG NO: 18S22176)

UNDER THE GUIDANCE OF

Dr. CHITHARANJAN RAI
Principal
KFGSC Tiptur

Prof. VINOD PHADKE
HOD of Electronics
KFGSC Tiptur

DEPARMENT OF ELECTRONICS

KALPATARU FIRST GRADE SCIENCE COLLEGE

TIPTUR - 572201

KALPATARU FIRST GRADE SCIENCE COLLEGE

TIPTUR - 572201

DEPARTMENT OF ELECTRONICS

CERTIFICATE

Certified that the project entitled *"Automatic Room Lights Using Arduino and PIR Sensor"* is a bonafide work carried out by **KAVITHA B S, SHILPA H, MEGHA M R & RAMYA J S (REG.NO. 18S22165, 18S22177, 18S22172 & 18S22176)** in partial fulfillment for the award of degree in **Bachelor of Science (PME)** of the Tumkur University during the year 2020-21. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for Bachelor of Science degree

Signature of the Guide **Signature of HOD** **Signature of the Principal**

Vinod Phadke, M.Sc.,M.Phil.,
Associate Professor & HoD of Electronics
Kalpataru First Grade Science College
TIPTUR - 572201.

PRINCIPAL
Kalpataru First Grade Science College
TIPTUR

Signature of Examiners with date

1.

KALPATARU SCIENCE COLLEGE, TIPTUR
VALUED
Mar/Oct ..... Examination

2. Examiners.....

2020-21

TUMKUR UNIVERSITY

A Project report on

""*Automatic Hand Sanitizer*""

Submitted in the partial fulfillment of requirement for the award of

BACHELOR OF SCIENCE

For the academic year 2020-21

SUBMITTED BY

ABHISHEK A M
(REG NO: 18S22155)

MADHUSHREE B L
(REG NO: 18S22169)

POOJA G
(REG NO: 18S22175)

MEGHA D S
(REG NO: 18S22171)

UNDER THE GUIDANCE OF

Dr. CHITHARANJAN RAI
Principal
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Prof. VINOD PHADKE
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DEPARMENT OF ELECTRONICS

KALPATARU FIRST GRADE SCIENCE COLLEGE

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KALPATARU FIRST GRADE SCIENCE COLLEGE

TIPTUR - 572201

DEPARTMENT OF ELECTRONICS

CERTIFICATE

Certified that the project entitled *"Automatic Hand Sanitizer"* is a bonafide work carried out by **ABHISHEK A M, MADHUSHREE B L, POOJA G & MEGHA D S (REG.NO. 18S22155,18S22169,18S22175 & 18S22171)** in partial fulfillment for the award of degree in **Bachelor of Science (PME)** of the Tumkur University during the year 2020-21. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for Bachelor of Science degree

Vinod Phadke, M.Sc.,M.Phil.,
Associate Professor & HoD of Electronics
Kalpataru First Grade Science College,
TIPTUR - 572201.

Signature of the Guide **Signature of HOD** **Signature of the Principal**

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TIPTUR

Signature of Examiners with date

1.

KALPATARU SCIENCE COLLEGE, TIPTUR
VALUED
Mar/Oct ..... Examination

2. Examiners.....

2020-21

TUMKUR UNIVERSITY

A Project report on

"Obstacle Avoiding Robot Using Arduino and Ultrasonic Sensor"

Submitted in the partial fulfillment of requirement for the award of

BACHELOR OF SCIENCE

For the academic year 2020-21

SUBMITTED BY

MANJULA Y L
(REG NO: 18S22170)

FIZA BANU
(REG NO: 18S22162)

KAVYASHREE S O
(REG NO: 18S22166)

KAVANA P
(REG NO: 18S22164)

UNDER THE GUIDANCE OF

Dr. CHITHARANJAN RAI
Principal
KFGSC Tiptur

Prof. VINOD PHADKE
HOD of Electronics
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DEPARMENT OF ELECTRONICS

KALPATARU FIRST GRADE SCIENCE COLLEGE

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TIPTUR - 572201

DEPARTMENT OF ELECTRONICS

CERTIFICATE

Certified that the project entitled *"Automatic Hand Sanitizer"* is a bonafide work carried out by **ABHISHEK A M, MADHUSHREE B L, POOJA G & MEGHA D S (REG.NO. 18S22155,18S22169,18S22175 & 18S22171)** in partial fulfillment for the award of degree in **Bachelor of Science (PME)** of the Tumkur University during the year 2020-21. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for Bachelor of Science degree

Vinod Phadke, M.Sc.,M.Phil.,
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Signature of the Guide **Signature of HOD** **Signature of the Principal**

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PRINCIPAL
Kalpataru First Grade Science College
TIPTUR

Signature of Examiners with date

1.

KALPATARU SCIENCE COLLEGE, TIPTUR
VALUED
Mar/Oct ..... Examination
Examiners.....

2. .....

KALPATARU FIRST GRADE SCIENCE COLLEGE

TIPTUR - 572201

DEPARTMENT OF ELECTRONICS

CERTIFICATE

Certified that the project entitled *"Voice Controlled LED's Using Arduino and Bluetooth"* is a bonafide work carried out by **GOUTHAM T, CHANDAN C, LIKITHA A R & BHAVANA N (REG.NO's. 18S22163, 18S22161, 18S22168 & 18S22157)** in partial fulfillment for the award of degree in **Bachelor of Science (PME)** of the Tumkur University during the year 2020-21. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for Bachelor of Science degree

Signature of the Guide **Signature of HOD** **Signature of the Principal**

Vinod Phadke, M.Sc.,M.Phil.,
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2020-21

TUMKUR UNIVERSITY

A Project report on

"RFID Based Attendance System"

Submitted in the partial fulfillment of requirement for the award of

BACHELOR OF SCIENCE

For the academic year 2020-21

SUBMITTED BY

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CERTIFICATE

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