AN EXPERIMENTAL STUDY ON FIBER REINFORCED SELF COMPACTING CONCRETE BY USING RECYCLED AGGREGATES

A project report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

M.RAMU	18U45A0135
L.SANTHI	18U45A0122
K.NEERAJA RANI	18U45A0104
K.SEKHAR	18U45A0113
N.NIKHIL KUMAR	17U41A0105

Under the Esteemed Guidance of

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2017-2021

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CERTIFICATE

This is to certify that the project work entitled **"AN EXPERIMENTAL STUDY ON FIBRE REINFORCED SELF COMPACTING CONCRETE BY USING RECYCLED AGGREGATES "** is an authentic work submitted by M.RAMU (18U45A0135), L.SANTHI (18U45A0122), K.NEERAJA RANI (18U45A0104), K.SEKHAR (18U45A0113), N.NIKHIL KUMAR (17U41A0105). In partial fulfilment of the requirement for the award of the degree of bachelor of technology in civil engineering from diet college of engineering during the academic year 2020-2021.

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Mr. N.RAMU, M. Tech

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EXTERNAL EXAMINER

GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVILENGINEERING

Submitted by

B. YASHWANTH	18U41A0101
K. USHA	18U41A0105
B.S.S DHEERAJ	19U45A0109
D. THARUN KUMAR	19U45A0149
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EXTERNAL EXAMINER

COMPARATIVE STUDY ON FIBER REINFORCED CONCRETE USING VARIOUS FIBERS FOR M60 GRADE CONCRETE

A project report submitted in partial fulfillment of the

Requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

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G. NOOKARAJU	19U45A0118
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This is to certify that the project report entitled, "AN **COMPARATIVE STUDY ON FIBER REINFORCED CONCRETE USING VARIOUS FIBERS FOR M60 GRADE CONCRETE** "is being submitted by B.SRAVANI (18U41A0102).In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-2022.

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EXTERNAL EXAMINER

COST ESTIMATION AND REDUCTION OF PROPOSED G+5 BUILDING IN DIET COLLEGE

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

G.SAI	**18U41A0104**
A.VANI	**19U45A0102**
P.SATEESH	**19U45A0134**
R.PAVANI	**19U45A0138**

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This is to certify that the Project work entitled " **COST ESTIMATION AND REDUCTION OF PROPOSED G+5 BUILDING IN DIET COLLEGE**" is a being submitted by G.SAI (18U41A0104) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-22

Er. N. RAMU M.Tech
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EXTERNAL EXAMINER

DECLARATION

We hereby declare that this project work entitled " **COST ESTIMATION AND REDUCTION OF PROPOSED G+5 BUILDING IN DIET COLLEGE**" has been carried out by us and contents have been presented in the form are for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING. We further declare that this dissertation has not been submitted elsewhere for any Diploma or Degree of any University

BY

G.SAI	**18U41A0104**
A.VANI	**19U45A0102**
P.SATEESH	**19U45A0134**
R.PAVANI	**19U45A0138**

GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVILENGINEERING

Submitted by

B. YASHWANTH	18U41A0101
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B.S.S DHEERAJ	19U45A0109
D. THARUN KUMAR	19U45A0149
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This is to certify that the Project work entitled "**GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS"** is a being submitted K. USHA (18U41A0105), by in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for CIVIL ENGINEERING during the academic year 2021-22.

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EXTERNAL EXAMINER

PRECAST PARTITION WALLS BY USING LIGHT WEIGHT MATERIALS

A project report submitted in partial fulfillment of the Requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY**

IN

CIVIL ENGINEERING

Submitted By

S.SAI SIREESHA	**19U45A0143**
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This is to certify that the project report entitled, "**PRECAST PARTITION WALLS BY USING LIGHT WEIGHT MATERIALS**" is being submitted by S.SAISIREESHA(19U45A0143),S.KAILASHKUMAR(19U45A0144),M.DURGAPRASAD (18U41A0109),K.B.CHAITANYA(18U41A0106). In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-2022.

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EXTERNAL EXAMINER

EXPERIMENTAL INVESTIGATION ON "RUBBER SHREDDED AGGREGATES" IN FLEXIBLE PAVEMENTS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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This is to certify that the Project work entitled **"AN EXPERIMENTAL INVESTIGATION ON RUBBER SHREDDED AGGREGATES IN FLEXIBLE PAVEMENTS"** is a being submitted by K SAI KUMAR (18U41A0107) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-22.

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EXTERNAL EXAMINER

EXPERIMENTAL STUDY ON GREEN CONCRETE BY USING M30 GRADE

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

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This is to certify that the Project work entitled "**EXPERIMENTAL STUDY ON GREEN CONCRETE BY USING M30 GRADE**" is a being submitted by V VENKATESH (18U41A0114), G YIRIMYA (19U45A0117), B NAVEEN (19U45A0107), A SAI (18U41A0108) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-22.

B. Sudheer

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EXTERNAL EXAMINER

PRECAST PARTITION WALLS BY USING LIGHT WEIGHT MATERIALS

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S.SAI SIREESHA	**19U45A0143**
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EXTERNAL EXAMINER

IMPROVING THE CHARACTERISTIC PROPERTIES OF HIGH STRENGTH CONCRETE BY ADDITION OF STEEL LATHE WASTE AND IRON ORE IN M60 GRADE CONCRETE

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

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K. SAMPATH RAM	19U45A0123
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P. SWATHI	18U41A0110
M. SATYA SIRISHA	19U45A0130

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This is to certify that the Project work entitled "**IMPROVING THE CHARACTERISTIC PROPERTIES OF HIGH STRENGTH CONCRETE BY ADDITION OF STEEL LATHE WASTE AND IRON ORE IN M60 GRADE CONCRETE**" is a being submitted by K SAMPATH RAM (19U45A0123), K LAXMAN KUMAR (19U45A0122), P SWATHI (18U41A0110), M SATYA SIRISHA (19U45A0130) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-22.

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EXTERNAL EXAMINER

A COMPARITIVE STUDY ON CONCRETE WITH PARTIAL REPLACEMENT OF FINE AGGREGATE BY COPPER SLAG AND CRUSHER DUST.

A project report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

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Under the Esteemed Guidance of

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CERTIFICATE

This is to certify that the project work entitled **"A COMPRATIVE STUDY ON CONCRETE WITH PARTIAL REPLACEMENT OF FINE AGGREGATE BY COPPER SLAG AND CRUSHER DUST"** is an authentic work submitted by K.MANOJ KUMAR (19U45A0125), P.KALYAN SAI (19U45A0135), CH.LATHA (19U45A0113), and R.SANTA KUMAR (18U41A0111). In partial fulfilment of the requirement for the award of the degree of bachelor of technology in civil engineering from diet college of engineering during the academic year2021-2022.

Mrs. K Manoharini, M. Tech
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Mr. N.RAMU, M. Tech
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EXTERNAL EXAMINER

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CERTIFICATE

This is to certify that the project report entitled **"HEALTH MONITORING OF HORIZONTAL STRUCTURAL MEMBERS BY USING LASER SENSORS"** is being Submitted by S.SARAN BHOOPATHY(18U41A0112) in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING during the academic year 2021-22.

Mr.O.SURESH, M.Tech, (Ph.d) ,AMIE, C.Engg
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Er.N.RAMU, M.Tech ,AMIE
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EXTERNAL EXAMINER

HEALTH MONITORING OF HORIZONTAL STRUCTURAL MEMBERS BY USING LASER SENSORS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

S.SARAN BHOOPATHY	**18U41A0112**
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EXPERIMENTAL STUDY ON PROPERTIES OF SOIL WITH GEOSYNTHETICS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

CH.RAJESH	**18U41A0113**
A.DEEPIKA	**19U45A0103**
S.ASHLESH	**19U45A0140**

Under the Esteemed Guidance of

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Er. N. RAMU, M.Tech
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EXTERNAL EXAMINER

EXPERIMENTAL STUDY ON GREEN CONCRETE BY USING M30 GRADE

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

V. VENKATESH	**18U41A0114**
G. YIRIMYA	**19U45A0117**
B. NAVEEN	**19U45A0107**
A. SAI	**18U41A0108**

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EXTERNAL EXAMINER

"SIGNAL DESIGN BY USING WEBSTER METHOD IN PERUGU BAZAR JUNCTION, ANAKAPALLI"

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

In

CIVIL ENGINEERING

Submitted by

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A. MADHU SUDHAN	19U45A0106
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EXTERNAL EXAMINER

DESIGN AND ANALYSIS OF TRAFFIC REDUCE SYSTEM BY USING SPRING MECHANISM.

A project report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

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EXTERNAL EXAMINER

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EXTERNAL EXAMINER

COST ESTIMATION AND REDUCTION OF PROPOSED G+5 BUILDING IN DIET COLLEGE

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

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G.SAI	**18U41A0104**
P.SATEESH	**19U45A0134**
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EXTERNAL EXAMINER

DECLARATION

We hereby declare that this project work entitled " **COST ESTIMATION AND REDUCTION OF PROPOSED G+5 BUILDING IN DIET COLLEGE**" has been carried out by us and contents have been presented in the form are for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING. We further declare that this dissertation has not been submitted elsewhere for any Diploma or Degree of any University

BY

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2 / 11

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EXTERNAL EXAMINER

AN EXPERIMENTAL STUDY ON FIBER REINFORCED SELF COMPACTING CONCRETE BY USING RECYCLED AGGREGATES

A project report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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EXTERNAL EXAMINER

DESIGN AND ANALYSIS OF TRAFFIC REDUCE SYSTEM BY USING SPRING MECHANISM.

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IN

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EXTERNAL EXAMINER

"SIGNAL DESIGN BY USING WEBSTER METHOD IN PERUGU BAZAR JUNCTION, ANAKAPALLI"

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In

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EXTERNAL EXAMINER

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IN

CIVIL ENGINEERING

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EXTERNAL EXAMINER

GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVILENGINEERING

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K. USHA	18U41A0105
B.S.S DHEERAJ	19U45A0109
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EXTERNAL EXAMINER

COMPARATIVE STUDY ON FIBER REINFORCED CONCRETE USING VARIOUS FIBERS FOR M60 GRADE CONCRETE

A project report submitted in partial fulfillment of the

Requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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Submitted by

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V.RAMU	19U45A0148

Under the Esteemed Guidance of

Mr. B. SUDHEER KUMAR, M Tech, MISTE

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This is to certify that the project report entitled, "AN **COMPARATIVE STUDY ON FIBER REINFORCED CONCRETE USING VARIOUS FIBERS FOR M60 GRADE CONCRETE** "is being submitted by CH. MUSALA PATRUDU (19U45A0111). In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-2022.

Mr. B. SUDHEER KUMAR, M.Tech,MISTE	**Er. N. RAMU , M.Tech**
ASSISTANT PROFESSOR	**ASSISTANT PROFESSOR**
PROJECT GUIDE	HEAD OF THE DEPARTMENT

EXTERNALEXAMINER

PRECAST PARTITION WALLS BY USING LIGHT WEIGHT MATERIALS

A project report submitted in partial fulfillment of the Requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY**

IN

CIVIL ENGINEERING

Submitted By

S.SAI SIREESHA	**19U45A0143**
K.B.CHAITANYA	**18U41A0106**
M.DURGA PRASAD	**18U41A0109**
S.KAILASH KUMAR	**19U45A0144**

Under the Esteemed Guidance of

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CERTIFICATE

This is to certify that the project report entitled, "**PRECAST PARTITION WALLS BY USING LIGHT WEIGHT MATERIALS**" is being submitted by S.SAISIREESHA(19U45A0143),S.KAILASHKUMAR(19U45A0144),M.DURGAPRASAD (18U41A0109),K.B.CHAITANYA(18U41A0106). In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-2022.

Er. N. RAMU M.Tech

ASISSTANT PROFESSOR

Department of Civil Engineering

(PROJECT GUIDE)

Head of the Department
Civil Engineering
Dadi Institute of Engg. & Tech
Anakapalle

Er. N. RAMU M.Tech

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

"SIGNAL DESIGN BY USING WEBSTER METHOD IN PERUGU BAZAR JUNCTION, ANAKAPALLI"

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

In

CIVIL ENGINEERING

Submitted by

A. SATYA SAI PAVAN KARTHEEK	19U45A0101
V. NIVEDITHA	18U41A0115
A. MADHU SUDHAN	19U45A0106
T. HARI KRISHNAM NAIDU	19U45A0145

Under the Esteemed Guidance of

Mrs. B. RAMYA (M.E)

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CERTIFICATE

This is to certify that the Project work entitled **"SIGNAL DESIGN BY USING WEBSTER METHOD IN PERUGUBAZAR JUNCTION, ANAKAPALLI"** is a being submitted by T.HARI KRISHNAM NAIDU (19U45A0145) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for CIVIL ENGINEERING during the academic year 2021-22.

Mrs.B.RAMYA (M.E)	**Mr.N RAMU (M.TECH)**
(ASSISTANT PROFESSOR)	**(ASSISTANT PROFESSOR)**
(PROJECT GUIDE)	(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

DESIGN AND ANALYSIS OF TRAFFIC REDUCE SYSTEM BY USING SPRING MECHANISM.

A project report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

P. SAI LAKSMI	**18U41A0117**
A. PAVAN KUMAR	**19U45A0104**
S. HARISH	**19U45A0139**
T. KISHORE	**19U45A0146**

Under the Esteemed Guidance of

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CERTIFICATE

This is to certify that the project report entitled, **"DESIGN AND ANALYSIS OF TRAFFIC REDUCE SYSTEM BY USING SPRING MECHANISM"** is being Submitted by S.HARISH (19U45A0139) in partial fulfilment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING** during the academic year 2018-2022.

Mrs. P. LAVANYA
M. Tech
(Assistant Professor)
(PROJECT GUIDE)

Sri. N. RAMU
M. Tech, AMIE
(Assistant Professor)
(HEAD OF CIVIL DEPARTMENT)

EXTERNAL EXAMINER

GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVILENGINEERING

Submitted by

B. YASHWANTH	18U41A0101
K. USHA	18U41A0105
B.S.S DHEERAJ	19U45A0109
D. THARUN KUMAR	19U45A0149
K. SWAROOPA	19U45A0127
SK. NASEER AHAMMAD	19U45A0141
S. SAI KIRAN	19U45A0142
T. CHANDRA GANESH	19U45A0147

Under the Esteemed Guidance of

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Assistant Professor, Department of CIVIL Engineering

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June 2022

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This is to certify that the Project work entitled "**GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS"** is a being submitted T.CHANDRA GANESH(19U45A0147), by in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for CIVIL ENGINEERING during the academic year 2021-22.

Mr. M. RVSG GUPTHA
(ASST.PROFESSOR)
(PROJECT GUIDE)

Mr.N. RAMU
(PROFESSOR)
(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

COMPARATIVE STUDY ON FIBER REINFORCED CONCRETE USING VARIOUS FIBERS FOR M60 GRADE CONCRETE

A project report submitted in partial fulfillment of the

Requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

V.RAMU	19U45A0148
B. SRAVANI	18U41A0102
CH. MUSALAPATRUDU	19U45A0111
G. NOOKARAJU	19U45A0118

Under the Esteemed Guidance of

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Mr. B. SUDHEER KUMAR, M.Tech,MISTE	**Er. N. RAMU , M.Tech**
ASSISTANT PROFESSOR	**ASSISTANT PROFESSOR**
PROJECT GUIDE	HEAD OF THE DEPARTMENT

EXTERNALEXAMINER

GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVILENGINEERING

Submitted by

B. YASHWANTH	18U41A0101
K. USHA	18U41A0105
B.S.S DHEERAJ	19U45A0109
D. THARUN KUMAR	19U45A0149
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Mr. M. RVSG GUPTHA
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Mr.N. RAMU
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(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

EXPERIMENTAL INVESTIGATION ON "RUBBER SHREDDED AGGREGATES" IN FLEXIBLE PAVEMENTS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

K. SAMPATH VINAY BHAGAVAN	**19U45A0124**
N. SAI KUMAR	**19U45A0132**
CH. SATEESH	**19U45A0112**
K. SAI KUMAR	**18U41A0107**

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CERTIFICATE

This is to certify that the Project work entitled **"AN EXPERIMENTAL INVESTIGATION ON RUBBER SHREDDED AGGREGATES IN FLEXIBLE PAVEMENTS"** is a being submitted by CH SATEESH (19U45A0112) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-22.

Mrs. B. RAMYA
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Er. N. RAMU
ASSISTANT PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

A COMPARITIVE STUDY ON CONCRETE WITH PARTIAL REPLACEMENT OF FINE AGGREGATE BY COPPER SLAG AND CRUSHER DUST.

A project report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

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P.KALYAN SAI	19U45A0135
CH.LATHA	19U45A0113
R.SANTA KUAMR	18U41A0111

Under the Esteemed Guidance of

Mrs. K. Manoharini

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CERTIFICATE

This is to certify that the project work entitled **"A COMPRATIVE STUDY ON CONCRETE WITH PARTIAL REPLACEMENT OF FINE AGGREGATE BY COPPER SLAG AND CRUSHER DUST"** is an authentic work submitted by K.MANOJ KUMAR (19U45A0125), P.KALYAN SAI (19U45A0135), CH.LATHA (19U45A0113), and R.SANTA KUMAR (18U41A0111). In partial fulfilment of the requirement for the award of the degree of bachelor of technology in civil engineering from diet college of engineering during the academic year2021-2022.

Mrs. K Manoharini, M. Tech
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Mr. N.RAMU, M. Tech
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EXTERNAL EXAMINER

EXPERIMENTAL STUDY ON GREEN CONCRETE BY USING M30 GRADE

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

G. YIRIMYA	**19U45A0117**
B. NAVEEN	**19U45A0107**
A. SAI	**18U41A0108**
V. VENKATESH	**18U41A0114**

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This is to certify that the Project work entitled "**EXPERIMENTAL STUDY ON GREEN CONCRETE BY USING M30 GRADE**" is a being submitted by batch no-8 G. YIRIMYA (19U45A0117),in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-22.

Mr. B. SUDHEER KUMAR
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EXTERNAL EXAMINER

COMPARATIVE STUDY ON FIBER REINFORCED CONCRETE USING VARIOUS FIBERS FOR M60 GRADE CONCRETE

A project report submitted in partial fulfillment of the

Requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

G. NOOKARAJU	19U45A0118
B. SRAVANI	18U41A0102
CH. MUSALAPATRUDU	19U45A0111
V.RAMU	19U45A0148

Under the Esteemed Guidance of

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CERTIFICATE

This is to certify that the project report entitled, "AN **COMPARATIVE STUDY ON FIBER REINFORCED CONCRETE USING VARIOUS FIBERS FOR M60 GRADE CONCRETE** "is being submitted by G.NOOKARAJU (19U45A0118). In partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-2022.

Mr. B. SUDHEER KUMAR, M.Tech,MISTE	**Er. N.RAMU , M.Tech**
ASSISTANT PROFESSOR	**ASSISTANT PROFESSOR**
PROJECT GUIDE	HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

DEVELOPMENT AND CHARACTERIZATION OF BITUMINOUS PAVEMENT WITH PLASTIC WASTE

A Project Report submitted in partial fulfilment of therequirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

P.RAJ PAVAN	19U45A0136
P. SAI KUMAR	19U45A0137
K. PRIYANKA	19U45A0120

Under the Esteemed Guidance of

Mrs. M. KEDHARESWARI

Assistant Professor, Department of CIVIL

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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NH-16, Anakapalle – 531002, Visakhapatnam, A.P. 2022

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NH-16, Anakapalle – 531002, Visakhapatnam, A.P. 2022

CERTIFICATE

This is to certify that the Project work entitled **"DEVELOPMENT AND CHARACTERIZATION OF BITUMINOUS PAVAMENT WITH PLASTIC WASTE"** is a being submitted by P.RAJ PAVAN (19U45A0136), P.SAI KUMAR (19U45A0137), K.PRIYANKA (19U45A0120) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for CIVIL ENGINEERING during the academic year 2021-22.

Mrs. M. KEDHARESWARI
(ASSISTANT PROFESSOR)
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Mr. N. RAMU
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EXTERNAL EXAMINER

IMPROVING THE CHARACTERISTIC PROPERTIES OF HIGH STRENGTH CONCRETE BY ADDITION OF STEEL LATHE WASTE AND IRON ORE IN M60 GRADE CONCRETE

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

K. SAMPATH RAM	**19U45A0123**
K. LAXMAN KUMAR	**19U45A0122**
P. SWATHI	**18U41A0110**
M. SATYA SIRISHA	**19U41A0130**

Under the Esteemed Guidance of

Mr. S. NAVEEN KUMAR

Assistant Professor, Department of CIVIL

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NH-16, Anakapalle – 531002, Visakhapatnam, A.P. 2022

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
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NH-16, Anakapalle – 531002, Visakhapatnam, A.P. 2022

CERTIFICATE

This is to certify that the Project work entitled **"IMPROVING THE CHARACTERISTIC PROPERTIES OF HIGH STRENGTH CONCRETE BY ADDITION OF STEEL LATHE WASTE AND IRON ORE IN M60 GRADE CONCRETE"** is a being submitted by K LAXMAN KUMAR (19U45A0122) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-22.

Mr. S. NAVEEN KUMAR
ASSISTANT PROFESSOR
PROJECT GUIDE

Mr. N. RAMU
ASSISTANT PROFESSOR
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

AN EXPERIMENTAL STUDY ON FIBER REINFORCED SELF COMPACTING CONCRETE BY USING RECYCLED AGGREGATES

A project report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

M.RAMU	18U45A0135
L.SANTHI	18U45A0122
K.NEERAJA RANI	18U45A0104
K.SEKHAR	18U45A0113
N.NIKHIL KUMAR	17U41A0105

Under the Esteemed Guidance of

Mrs. K. Manoharini

Assistant professor, Department of civil Engineering

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CIVIL ENGINEERING

Submitted by

K. SAMPATH RAM	**19U45A0123**
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M. SATYA SIRISHA	**19U41A0130**

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EXTERNAL EXAMINER

EXPERIMENTAL INVESTIGATION ON "RUBBER SHREDDED AGGREGATES" IN FLEXIBLE PAVEMENTS

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

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IN

CIVIL ENGINEERING

Submitted by

K. SAMPATH VINAY BHAGAVAN	**19U45A0124**
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EXTERNAL EXAMINER

GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVILENGINEERING

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K. USHA	18U41A0105
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EXTERNAL EXAMINER

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M. SATYA SIRISHA	**19U41A0130**

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IN

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DECLARATION

We hereby declare that this project work entitled **"AN EXPERIMENTAL INVESTIGATION ON RUBBER SHREDDED AGGREGATES IN FLEXIBLE PAVEMENTS"** has been carried out by us and contents have been presented in the form are for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING. We further declare that this dissertation has not been submitted elsewhere for any Diploma or Degree of any University.

BY

K. SAMPATH VINAY BHAGAVAN	19U45A0124
N. SAI KUMAR	19U45A0132
CH. SATEESH	19U45A0112
K. SAI KUMAR	18U41A0107

COST ESTIMATION AND REDUCTION OF PROPOSED G+5 BUILDING IN DIET COLLEGE

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

P.SATEESH	**19U45A0134**
G.SAI	**18U41A0104**
A.VANI	**19U45A0102**
R.PAVANI	**19U45A0138**

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EXTERNAL EXAMINER

DEVELOPMENT AND CHARACTERIZATION OF BITUMINOUS PAVEMENT WITH PLASTIC WASTE

A Project Report submitted in partial fulfilment of therequirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

P.RAJ PAVAN	19U45A0136
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This is to certify that the Project work entitled " **COST ESTIMATION AND REDUCTION OF PROPOSED G+5 BUILDING IN DIET COLLEGE**" is a being submitted by R.PAVANI (19U45A0138) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING during the academic year 2021-22

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EXTERNAL EXAMINER

DECLARATION

We hereby declare that this project work entitled " **COST ESTIMATION AND REDUCTION OF PROPOSED G+5 BUILDING IN DIET COLLEGE**" has been carried out by us and contents have been presented in the form are for the award of the degree of BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING. We further declare that this dissertation has not been submitted elsewhere for any Diploma or Degree of any University

BY

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DESIGN AND ANALYSIS OF TRAFFIC REDUCE SYSTEM BY USING SPRING MECHANISM.

A project report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

Submitted by

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EXTERNAL EXAMINER

EXPERIMENTAL STUDY ON PROPERTIES OF SOIL WITH GEOSYNTHETICS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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EXPERIMENTAL STUDY ON PROPERTIES OF SOIL WITH GEOSYNTHETICS

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2 / 11

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EXTERNAL EXAMINER

GREEN CAMPUS INITIATIVES IN DIET ENGINEERING CAMPUS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

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IN

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IN

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EXTERNAL EXAMINER

PRECAST PARTITION WALLS BY USING LIGHT WEIGHT MATERIALS

A project report submitted in partial fulfillment of the Requirements for the award of the Degree of **BACHELOR OF TECHNOLOGY**

IN

CIVIL ENGINEERING

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EXTERNAL EXAMINER

GENERATION OF ELECTRICAL ENERGY BY REUTILIZING LOW GRADE WASTE

A Project Report
Submitted in partial fulfillment of the
requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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ROLE OF SMART TECHNIQUE IN IRRIGATION SYSTEM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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EXTERNAL

VOICE CONTROLLED AUTOMATION OF ELECTRICAL APPLIANCES

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

ELECTRICAL AND ELECTRONICS ENGINEERING

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P. Sravani

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SIGNATURE OF THE EXTERNAL EXAMINER

SMART POWER FACTOR CONTROLLER USING MICROCONTROLLER AND WI-FI ENABLED SWITCH

A Project Report
Submitted in partial fulfillment
of the requirements for the
award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

K. VAMSI KRISHNA	(18U41A0208)
B. LOHIDHAR	(19U45A0211)
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Signature of Guide
Mr. T. RAMESH BABU
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Signature of Head of the Department
Dr. A S L K GOPALAMMA
Associate professor

Signature of the External Examiner

IR BASED COVID PREVENTIVE ELECTRIC SMART SWITCH

A Project Report
Submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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Signature of Guide
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Signature of Head of the Department
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IOT BASED ELECTRICAL ENERGY CONSUMPTION LIVE MONOTORING & CONTROLLING

A Project Report
Submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
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Signature of Guide
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Signature of Head of the Department
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SOLAR ENERGY OPTIMIZATION USING ARDUINO BASED MAXIMUM POWER POINT TRACKING SYSTEM

A Project Report

Submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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EXTERNAL EXAMINER

SMART TRAFFIC CONTROLLING SYSTEM WITH AMBULANCE DETECTION

A Project Report submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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SIGNATURE OF EXTERNAL EXAMINER

AN EFFICIENT AC TO DC STEP-UP CONVERTER FOR LOW-VOLTAGE ENERGY HARVESTING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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BATTERY MANAGEMENT SYSTEM IN ELECTRIC VEHICLES

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

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Signature of External Examiner

Power Quality Improvement in Power System Using Static Synchronous Series Compensator

A Project Report
Submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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ARDUINO BASED AUTO FRISKING DEVICE

A project report submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

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EXTERNAL EXAMINER

AUTOMATIC RAILWAY GATE CONTROL USING ARDUINO

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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EXTERNAL EXAMINER

DESIGN AND IMPLEMENTATION OF UNDER GROUND CABLE FAULT DETECTOR

A Project Report Submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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CEILING FAN POWER GENERATOR USING DYNAMO

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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EXTERNAL EXAMINER

"ADVANCE GHAT ROAD SAFETY AND POWER GENERATION"

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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EXTERNAL EXAMINER

DYNAMIC ELECTRIC VEHICLE CHARGING SYSTEM

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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P. GNANENDRA KUMAR	19U45A0250
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Under the Esteemed Guidance of

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This is to certify that the Project work entitled "**Dynamic Electric Vehicle Charging System**" is a being submitted by P.TEJA (19U45A0248), P.GNANENDRA KUMAR (19U45A0250), V.GANESH (19U45A066) and V.SAI KUMAR (19U45A0268) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for IN ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2021-22.

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EXTERNAL EXAMINER

Electrical Vehicle Charging Station

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

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This is to certify that the Project work entitled "**ELECTRICAL VEHICLE CHARGING STATION**" is a being submitted M.Sai Santhosh (19U45A0233),M.Divya(19U45A0237),R.JaganMurali(19U45A0254), S.N.Gayathri (19U45A0255) in partial fulfillment of the requirement for the award of the degree of BATCHLOR OF TECHNOLOGY for the ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2021-2022.

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EXTERNAL EXAMINER

WALK THROUGH METAL DETECTOR

A Project Report

Submitted in partial fulfilment of the requirements

For the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

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Y.MOHAN APPALA REDDY	19U45A0269
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that the Project work entitled **"WALK THROUGH METAL DETECTOR"** is being is submitted by Y. CHANDRA SEKHAR (19U45A0270),Y.M.A.REDDY(19U45A0269),T.V.SUDHEER(19U45A0264), L.UMA MAHESH(19U45A0232), in partial fulfilment of the Requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL & ELECTRONICS ENGINEERING** during the academic year **2021-2022.**

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PROJECT GUIDE

Dr. A S L K GOPALAMMA
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EXTERNAL EXAMINER

SIMULINK MODEL ON DYNAMIC ELECTRIC VEHICLE CHARGING SYSTEM

A Project Report
Submitted in partial fulfillment of the requirements
For the award of the Degree of

BACHELOR OF TECHNOLOGY
IN
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

KOPPISETTI SAI SATYA JAHNAVI	19U45A0229
KOTA NARAYANAMURTHY	19U45A0231
MOLLI SIVA DURGA SAI KIRAN YADAV	19U45A0242
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This is to certify that the Project work entitled "**SIMULINK MODEL ON DYNAMIC ELECTRIC VEHICLE CHARGING SYSTEM**" is being submitted by K.S.S. JAHNAVI (19U45A0229), K.N.MURTHY(19U45A0231), M.S.D.S KIRAN YADAV(19U45A0242), SAVAN KUMAR(19U45A0272) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2021-22.

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EXTERNAL EXAMINER

RENEWABLE ENERGY BASED INTEGRATED AUTOMATED SANITIZING SYSTEM

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted by

M. SRAVAN KUMAR	(19U45A0239)
M. HEMANTH KUMAR	(19U45A0243)
SURAJ NAHAK	(19U45A0244)
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B.V.Veeranjaneyulu
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PROJECT GUIDE

Dr.A S L K GOPALAMMA
Associate Professor
HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

ALCOHOL DETECTION WITH VEHICLE CONTROLLING SYSTEM

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

P. POORNA SAI	19U45A0252
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P. RAMYA	19U45A0251
V. LOKESH	19U45A0267

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This is to certify that the Project work entitled **ALCOHOL DETECTION WITH VEHICLE CONTROLLING SYSTEM** is a being submitted by P. POORNA SAI (19U45A0252), P. RAMYA (19U45A0251), R. SATISH SEKHAR (19U45A0253) and V. LOKESH (19U45A0267) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for IN ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2021-22.

Mr. G. JAGADEESH
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Mr. A. Krishna Nag
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(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

GSM BASED

PREPAID ENERGY METER

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

S. ANIL	(19U45A0257)
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This is to certify that the Project work entitled "**GSM BASED PREPAID ENERGY METER**" is being submitted by S. ANIL (19U45A0257), SK. NAZEERA PARVEEN (19U45A0260), S. SRAVANI (19U45A0262), and K. SIVA KUMAR (19U45A0271) in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2021-22.

Mr. P. RAGHAVENDRA RAO
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EXTERNAL EXAMINER

ACCIDENT DETECTION AND ALERT SYSTEM USING ARDUINO UNO

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted By

VILLURI MOULIKA	19U45A0441
MEDISETTI MANJU	19U45A0427
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This is to certify that the project work entitled "ACCIDENT DETECTION AND ALERT SYSTEM USING ARDUINO UNO" is being submitted by V.MOULIKA (19U45A0441),M.MANJU(19U45A0427),K.BHAGYA DHARANI (19U45A0422), B.KEDHAR SAI (19U45A0407), in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2021-2022.

Mrs.P.Amrutha
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Dr.P.Poorna Priya
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EXTERNAL EXAMINER

ABSTRACT

The rapid growth of technology and infrastructure has made our lives easier. The advent of technology has also increased the traffic hazards and the road accidents take place frequently which causes huge loss of life and property because of the poor emergency facilities. Our project will provide an optimum solution to this drawback. According to this project, when a vehicle meets with an accident. The Micro Electro Mechanical System (MEMS) sensor will detect the signal and this signal will be analyzed by Arduino. The Arduino sends the alert message and a camera footage of accident through the GSM module including the location to police control room or rescue team. So, the police can immediately trace the location through the GPS module, if it is a major accident then police and the ambulance will proceed and respond, if it is a minor accident then there will not be taken any action after receiving the information. The aim of this project is to automatically detect an accident and alert the nearest hospital or medical services about the exact location of the accident to rescue the victims.

Keyword: Arduino, GSM, GPS

SMART TROLLEY WITH AUTOMATED BILLING USING ARDUINO

A project report submitted in partial fulfilled of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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S.GANESH	**(18U41A0432)**
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CERTIFICATE

This is to certify that the Project work entitled **"SMART TROLLEY WITH AUTOMATED BILLING USING ARDUINO"** is being submitted by A.Vasantha (18U41A0401),S.Ganesh (18U41A0432), S.Aruna (18U41A0456), R.Srinivas (18U41A0453) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2021-2022.

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Dr. P. POORNA PRIYA
(ASSOCIATE PROFESSOR)
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EXTERNAL EXAMINER

ABSTRACT

The modern technology has increased the standard of living for the humans. This resulted in large crowds at shopping malls. To handle the large crowd, we must reduce the process of the billing time. This is done using smart shopping system based on RFID. Items that are put in a smart shopping cart are read one by one and the bill is generated and displayed. Today we will build a new smart shopping trolley with an automatic billing system that not only reduces the waiting time but also makes the process very smooth and easy. Here we use RFID cards and RFID readers with Arduino to build the smart shopping trolley project. The trolley information and total value will be displayed on lcd. When the reader reads the card, it will direct to the Arduino and it will add the items according to the reader information, then final no of items and the bill amount will be displayed on the lcd, at the exit for verification the shopkeeper can verify the products purchased with the help of master card. Hence, reducing manpower and helps in making a better shopping experience for customers.

SENSOR BASED SCREENING AND DETECTING

A project report submitted in partial fulfilled of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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J.TALLA BABU	18U41A0437
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This is to certify that the Project work entitled **"SENSOR BASED SCREENING AND DETECTING"** is being submitted by M. Pratyusha jyothi (18U41A0420), J. Tallababu (18U41A0437), CH. Harika (18U41A0440), G. Madhavi (18U41A0453) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2021-2022.

Archana

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(HOD, DEPARTMENT OF ECE)

Head of the Department
Electronics & Communication Engg
Dadi Institute of Engg. & Tech
Anakapalle 531 002

EXTERNAL EXAMINER

ABSTRACT

The Aim of the project "SENSORS BASED SCREENING AND DETECTING" is to ensure a contactless human body temperature measurement along with detecting metal objects and to provide Automated hand sanitizer. First module of this project is detection of body temperature, for the MLX90614 temperature sensor can be used. Second module of this project includes walk through metal detector to detect any various metal objects. The walk -through metal detectors create large magnetic fields that cover all of the space inside the rectangular arch of the metal detector. A person walks through the metal detector and Buzzer sound is made if the person carry any unauthorized objects. For this Inductive proximity sensor can be used. Third module of this project includes IR Sensors to provide an automated hand sanitization. This project is an essential preventive measure for reducing disease transmission in public places particularly during the COVID-19 pandemic situation.

TEMPERATURE SCREENING AND METAL DETECTION USING SENSORS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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V. USHA SRI	19U45A0440
S. JYOTHI	19U45A0435
A. SWAMY	19U45A0401

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CERTIFICATE

This is to certify that the Project work entitled **"TEMPERATURE SCREENING AND METAL DETECTION USING SENSORS"** is being submitted by K. LOKESH (19U45A0418), V. USHASRI (19U45A0440), S. JYOTHI (19U45A0435), A. SWAMY (19U45A0401) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2021-2022.

Mrs. B.T. ARCHANA
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EXTERNAL EXAMINER

ABSTRACT

The Aim of the project "TEMPERATURE SCREENING AND METAL DETECTION USING SENSORS" is to ensure a contactless human body temperature measurement along with detecting metal objects and to provide Automated hand sanitizer. First module of this project is detection of body temperature, for the MLX90614 temperature sensor can be used. Second module of this project includes walk through metal detector to detect any various metal objects. The walk -through metal detectors create large magnetic fields that cover all of the space inside the rectangular arch of the metal detector. A person walks through the metal detector and Buzzer sound is made if the person carry any unauthorized objects. For this Inductive proximity sensor can be used. Third module of this project includes IR Sensors to provide an automated hand sanitization. This project is an essential preventive measure for reducing disease transmission in public places particularly during theCOVID-19 pandemic situation.

COVID-19 FENCING AND CONTACT TRACEABILITY

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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Padala Yamini	19U45A0429
Indala Dhaana Sreelekhya	19U45A0414
Kadimisetti Teja	19U45A0415

Under the Esteemed Guidance of

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2022

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EXTERNAL EXAMINER

ABSTRACT

In real time we have seen many viruses but 2019 is impacted point in life that marked medical industry. That spread of virus is actually in airborne which can transfer inhuman in fraction of seconds, but we came with unique idea of prototyping the human health vital BOT (BLOOD OXYGEN TEMPERATURE) monitoring with advanced IOT with included GPS navigation system. With this we can directly obtain natural diagnostics.

Since oxygen is the most important element for a human to continue living, an effective low-cost device is needed to monitor oxygen levels in the human blood. Pulse Oximeter is a medical electronic instrument that measures oxygen saturation ($SpO2$) of arterial blood and pulse rate by non-invasive techniques. It is a medical device that allows for the rapid detection of hypoxemic events that could potentially be fatal. Lack of sufficient oxygen in the blood tends to cause Hypoxemia which is an abnormally low concentration of oxygen in the blood. In our paper, we proposed to develop a pulse oximeter to measure the saturation point oxygen level, heart rate, and temperature the same would be stored in the cloud, and also it is available life to the client handheld device i.e., mobile phone app which is designed to receive data wirelessly through Bluetooth. The app can send the data to another phone via text message, which will make it easy for sending the heart-rate information through conditional algorithms to medical doctors in real-time, in case of emergency. This low-cost wearable oximeter can significantly expand its applicability.

Keyword: Arduino, IOT Technology, GPS

IOT BASED VIRTUAL CARETAKER FOR COVID-19

A Project submitted in partial of requirements

for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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EXTERNAL EXAMINAR

ABSTRACT

Every human is busy in their own scheduled life, whether to take care of themselves or their families. Humans are facing a problem of unexpected deaths due to lack of medical care at the right time. The aim of this project is to monitor a patient without any presence of guardian, it is used for the patients who are living away from their family or guardians. Taking the present situation due to COVID-19, where we can't mingle or communicate with affected patients. So, in this "**AN IOT BASED VIRTUAL CARETAKER FOR COVID-19**" is one of the solutions for such patients. Now a days technology plays a major role in many sectors, as well as in the health care related industry by using patient monitoring systems through "IOT" and sensors. Online monitoring health helps to prevent sudden risks as well as getting a complete diagnosis of patient health without the need of a doctor. The proposed system is implemented with "sensors" such as 'Temperature sensor ', 'Oximeter sensor (Spo2)'. Later the data is transmitted to the guardian through the cloud where it is processed and analyzed for virtual output by logging into the html webpage/message which is sent through WIFI module.

Keywords: Internet of things (IOT), WIFI Module.

IMPROVED PERFORMANCE OF COOPERATIVE MASSIVE MIMO FOR 5G COMMUNICATION NETWORKS

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the Project work entitled "IMPROVED PERFORMANCE OF COOPERATIVE MASSIVE MIMO FOR 5G COMMUNICATION NETWORKS" is a being submitted by A. BHARGAVI (18U41A0458), M.PAVITHRA (18U41A055), K. CHANAKYA (18U41A0416), B. BHANU SREE (18U41A0451) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2021-22.

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EXTERNAL EXAMINER

DECLARATION

We are hereby declare that this project work entitled “IMPROVED PERFORMANCE OF COOPERATIVE MASSIVE MIMO FOR 5G COMMUNICATION NETWORKS” has been carried out by us and contents have been presented in the form are for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING. We further declare that this dissertation has not been submitted elsewhere for any Diploma or Degree of University.

BY

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ACKNOWLEDGEMENTS

The satisfaction that accompanies the successful completion of any task would be in complete without the mention of people who made it possible and whose constant guidance and encouragement crown all the efforts with success.

First and for most, we would like to thank our project guide **Dr**. **J. BABU**, Professor, Department of Electronics and Communication Engineering for giving us an opportunity to work on this challenging topic and providing us guidance. Her encouragement, support and suggestions are most valuable for the successful completion of our course.

We feel elated to extend our floral gratitude to Head of the department, **Dr. P. POORNA PRIYA**, Department of Electronics and Communication Engineering for her encouragement all the way during analysis of the project. Her annotations, insinuations and criticisms are the key behind the successful completion of during project and for providing us all the required facilities.

We would like to take this opportunity to express our profound sense of gratitude to revered Principal, **Dr. CHALLA NARASIMHAM** for giving us the opportunity of doing this project and for providing us all the required facilities.

We would like express our deep sense of gratitude to honorable Chairman, **SRI DADI RATNAKAR** for the resources and infrastructure provided for working on this project without any obstacles. The motivation and support given by the management is deeply adorable and we are fortunate to get a chance to work in this marvelous environment.

We also take this opportunity to express our heartfelt thanks to teaching and nonteaching staff of the department, for their perspective comments and suggestions. We would like to thank our beloved parents

for being patient, understanding and providing constant support we would like to appreciate the critical comments given by our friends we have been working with us. Our thanks to all others, who have directly or indirectly contributed in making our project a great success.

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ABSTRACT

Massive MIMO (multiple-input multiple-output) wireless technology uses a very large number of antennas with an order of magnitude more antennas than current LTE systems and is a leading candidate for inclusion in 5G systems. This will offer significant improvements in both the throughput and energy efficiency. As the number of antennas increases without limit, it is known that the effects of uncorrelated noise and small-scale fading can be removed completely.

But, Due to the complexity and deployment consideration in practical scenarios at individual base stations, each Base Station site cannot be deployed with a large number of antennas. That means with a limited number of antennas, the inter-cell and intra-cell interference still exist if simple non-cooperative linear pre coding is used individually in each Base Station site. Cooperative massive MIMO [CM-MIMO] where multiple base stations cooperate together and form a distributed antenna array to serve multiple users simultaneously is an attractive alternative.

In this Project, system level simulation performance of cooperative massive MIMO and non-cooperative massive MIMO system performance is compared under the uniform framework of the LTE TDD system. Here MF precoding is adopted for comparison owing to the benefit of low complexity of MF precoding and also in order to reduce the impact on the backhaul since no channel state information needs to be exchanged among base stations. The system level simulation takes into account various numbers of antenna configured in each Base Station site. This analysis provides insight on the potential system performance that can be achieved by using cooperative massive MIMO.

AN AUTOMATIC TOLL TICKETING SYSTEM USING IMAGE PROCESSING

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

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EXTERNAL EXAMINER

ABSTRACT

For the financial year 2020-2021 the revenue generated by the National Highways Authority of India (NHAI) is 268,510 million. For the financial year 2021-2022 is 340,000 million of rupees. On the other hand, every year, traffic is increasing by 5% to 6%, in India and the traffic at the toll plaza is expected to increase by 12-13% every year. For this exponentially growing traffic at the toll plaza, we need to increase the number of counters, and manpower. Ultimately this leads to the increase in the expenditure also. So, for this future forecasting problem we came up with a new solution of collecting the toll tax using the Number plate recognition system, using MatLab. For this, we have to process video surveillance system recordings by extracting the frames followed by character recognition. After recognition of the number plate, this data is transferred to the National Electronic Toll Collection (NETC) system to collect the amount from the vehicle owner's E-wallet, which will be done automatically without intervention of the human resources and no extra expenditure.

Keywords: MATLAB, toll ticketing, Number plate recognition**,** Automatic toll ticketing system.

DROWSY DRIVER DETECTION SYSTEM USING MATLAB

A Project Report submitted in partial fulfillment of therequirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

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EXTERNAL EXAMINER

ABSTRACT

This project describes an efficient method for drowsiness detection by three well defined phases. These three phases are facial features detection using Viola Jones, the eye tracking and yawning detection. Once the face is detected, the system is made illumination invariant by segmenting the skin part alone and considering only the chromatic components to reject most of the non face image backgrounds based on skin color. The tracking of eyes and yawning detection are done by correlation coefficient template matching. The feature vectors from each of the above phases are concatenated and a binary linear support vector machine classifier is used to classify the consecutive frames into fatigue and non-fatigue states and sound an alarm for the former, if it is above the threshold time. Extensive real time experiments prove that the proposed method is highly efficient in finding the drowsiness and alerting the driver.

KEYWORDS:

drowsiness detection, Viola Jones, correlation coefficient template matching, k means, Sobel edge, SVM.

INDOOR HYDROPONICS USING IOT

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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EXTERNAL EXAMINER

ABSTRACT

Urbanization issues such as housing, food demands education, health and poverty etc. An alternative method of farming utilizing minimized land areas. With the help of Embedded Systems using IOT we are developing a method that is indoor hydroponics using smart sensors & display. This farming is expected to be operated at lower cost with easy monitoring of essential plantation necessities such as light, water level, temperature and humidity. Hydroponics means "art of gardening without soil" and it incorporates the process of growing crops with the use of mineral fertilizer solutions in an aqueous solvent. Capturing parameters by employing sensors and controlling the hydroponics system for the growth of plant by employing IOT. In our future life there is trend of smart life style is becoming popular with the help of development of sensors, internet, communication and computer technology. The system can sense the hydroponic devices environment in a real time it gives stable way and also transmit the real time data which is temperature, humidity.

STRUCTURAL HEALTH MONITORING USING SENSORS

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

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This is to certify that the project work entitled "STRUCTURAL HEALTH MONITORING USING SENSORS" is being submitted by P.CHANDRAKALA (18U41A0425), CH.PRASAD (18U41A0409), K.VIJAYA MANASA (18U41A0418), S.N.S. AMRUTHA (18U41A0430) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2021-2022.

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EXTERNAL EXAMINER

ABSTRACT

In the developing country like India, constructions are growing rapidly day by day at the same time monitoring plays a crucial role for the safety of the people but due to the irresponsibility of monitoring team and monitoring was not done at right time then the severity of the problem increases and leads to the damage to the structure. If the monitoring of the structure is done at the right time, then we can find the problem at the initial stage.

To overcome this problem, we came up with this project i.e., STRUCTURAL HEALTH MONITORING(SHM)using sensors. In this we have arranged multipurpose sensors to the structure which will sense the deflection in the structure, fire in the structure and smoke in the structure. When the sensor detects any problem then alert notification will be send to the authenticated user. When the notification is sent there is a chance to take an immediate action so that there is a chance of reducing the risk and increase in the safety.

FACE SPOOF DETECTION BASED ON COLOUR TEXTURE ANALYSIS USING CONVOLUTION NEURAL NETWORK

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

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This is to certify that the project work entitled **"FACE SPOOF DETECTION BASED ON COLOUR TEXTURE ANALYSIS USING CONVOLUTION NEURAL NETWORK"** is being submitted by G. MAHA LAXMI DEVI (19U45A0411), M. SAI SHANMUKHA SRINADH (19U45A0426), P. REVATHI (19U45A0431), T. VANI (19U45A038) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2021- 2022.

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EXTERNAL EXAMINER

ABSTRACT

Research on non-intrusive software-based face spoofing detection schemes has mainly been focused on the analysis of the luminance information of the face images, hence discarding the chroma component which can be very useful for discriminating fake faces from genuine ones. This work introduces a novel and appealing approach for detecting face spoofing using color texture analysis. We exploit the joint color texture information from the luminance and the chrominance channels by extracting complementary low-level feature descriptions from different color spaces. More specifically, the feature histograms are computed over each image band separately. Extensive experiments on the three most challenging benchmark datasets, namely the Face Anti-Spoofing Database, the Replay-Attack Database and Face Spoof Database, showed excellent results compared to the state of the art. More importantly, unlike most of the methods proposed in the literature, our proposed approach is able to achieve stable performance across all the three benchmark datasets. The promising results of our cross-database evaluation suggest that facial color texture representation is more stable in unknown conditions compared to its gray-scale counterparts.

SMART IRRIGATION SYSTEM USING IoT TECHNOLOGY

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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CERTIFICATE

This is to certify that the Project work entitled **"SMART IRRIGATION SYSTEM USING IoT TECHNOLOGY"** is a being submitted by GANTA PAVAN KUMAR (18U41A0452), RAHUL KUMAR (18U41A0457), DUNGALA DEVI (18U41A0444), VELURI NAGA SAI ROHINI KUMAR (18U41A0434) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2021-22.

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Dr. P. POORNA PRIYA
(ASSOCIATE PROFESSOR)
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EXTERNAL EXAMINER

ABSTRACT

Now a day's so many useful technologies are coming out to make our life style more comfort, luxurious and secure. Especially internet technology brings up many applications and advantages for present and future generations. Present world mostly is being controlled by internet. Previously internet is limited to only computers but because of the advancement in technology especially in mobile communication, now internet is completely being accessed by latest phones like Smart phones.

The aim of this project is to provide water to fields based on moisture levels, humidity and temperature by using IoT from mobile app through internet.

The project we have undertaken is "IoT Based Smart Irrigation System Using Blynk App". This project is taken up as India is an agriculture-oriented country and the rate at which water resources are depleting is a dangerous threat hence there is a need of smart and efficient way of irrigation. In this project we have implemented sensors which detect the humidity, temperature & soil moisture in the soil (agricultural field) and supply water to the field which has water requirement. The project is NodeMCU and Arduino based design which controls the water supply and the field to be irrigated.

The NodeMcu which has Wi-Fi module to connect the Blynk app and it will keep update the all levels which are created in Blynk App. There are sensors present in each field which are not activated till water is present on the field. Once the field gets dry sensors sense the requirement of water in the field and send a message to the mobile. Then supply water to that particular field which has water requirement till the sensors is deactivated again. The development of the automated irrigation system based on sensors and wireless communication at experimental scale within rural areas is presented. The aim of the implementation was to demonstrate that the smart irrigation can be used to reduce the wastage of water.

IMAGE FUSION ON MR AND CT IMAGES USING DISCRETE WAVELET TRANSFORM

A Project submitted in partial of requirements

for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

S.HARSHITHA	18U41A0438
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This is to certify that the Project work entitled "**IMAGE FUSION ON MR AND CT IMAGES USING DISCRETE WAVELET TRANSFORM**" is a being submitted by S.HARSHITA (18U41A0438), M.SOUJANYA (18U41A0419), V.BINDU (18U41A0403), P.JHANSI (18U41A0447) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2021-2022.

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EXTERNAL EXAMINER

ABSTRACT

Medical imaging has emerged as one of the most important tools to identify as well as diagnose various disorders. The main objective of medical imaging is to obtain high resolution image details as with as much details as possible for correct diagnosis. There are several medical imaging techniques such as MRI and CT imaging techniques. Both give special sophisticated characteristics of the organ to be imaged. So it is expected that fusion of MRI and CT images of same organ would result in an integrated image of much more details. Many algorithms and tools have been developed for fusing panchromatic and multispectral images. A Image fusion algorithm based on wavelet transform to fuse two images is presented in this project. When images are merged in wavelet space, different frequency ranges are processed differently. It can merge information from original images adequately and improve abilities of information analysis and feature extraction. Wavelet transform of two input images is taken together with fusion rule.

Keywords: MATLAB

A Compact MIMO Antenna for Bluetooth and Wi-Fi Applications

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the project work entitled "A COMPACT MIMO ANTENNA FOR BLUETOOTH AND WIFI APPLICATIONS" is being submitted by B.SIRISHA (19U45A0403), D.GOWRI (19U45A0409), S.MOUNAVI (19U45A0346), B.SRAVANI (19U45A0404) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2021-2022.

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Dr. P. Poorna Priya
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EXTERNAL EXAMINER

ABSTRACT

The proposed MIMO antenna consists of two single antennas, each having size of 13 ×12.8 mm^2, symmetrically arranged next to each other. The single and MIMO antennas are simulated and analysed. To verify the simulated results, the prototype antennas were fabricated and measured. A good agreement between measurements and simulations is obtained. The proposed antenna covers the 2.4 GHz band (2–5 GHz) allocated by the FCC. The MIMO parameters, such as diversity gain (DG), total active reflection coefficient (TARC), realized gain, and efficiency, are also studied. Thus, the results demonstrate that our antenna is suitable for Bluetooth and WIFI Applications.

Keywords:

Multiple Input Multiple Output (MIMO), FCC

IOT BASED AUTONOMOUS DELIVERY ROBOT

a Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the project work entitled "IOT BASED AUTONOMOUS DELIVERY ROBORT" is being submitted by KODURU.MYTRI(19U45A0421), RAMPILLI.INDRAJA (19U45A0433), KALINGA.THRIVENI(19U45A0416), DODDI.AJAY KUMAR (19U45A0410), in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2021-2022.

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Dr. P. Poornapriya
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EXTERNAL EXAMINER

ABSTRACT

This project presents the overall design of Home Automation System (HAS) with low cost and wireless system. It specifically focuses on the development of an IOT based home automation system that is able to control various components via internet or be automatically programmed to operate from ambient conditions. In this project, we design the development of a firmware for smart control which can successfully be automated minimizing human interaction to preserve the integrity within whole electrical devices in the home. We used Node MCU, a popular open source IOT platform, to execute the process of automation. Different components of the system will use different transmission mode that will be implemented to communicate the control of the devices by the user through Node MCU to the actual appliance. The main control system implements wireless technology to provide remote access from smart phone. We are using a cloud server-based communication that would add to the practicality of the project by enabling unrestricted access of the appliances to the user irrespective of the distance factor. We provided a data transmission network to create a stronger automation. The system intended to control electrical appliances and devices in house with relatively low-cost design, user-friendly interface and ease of installation. The status of the appliance would be available, along with the control on an android platform. This system is designed to assist and provide support in order to 1fulfil the needs of elderly and disabled in home. Also, the smart home concept in the system improves the standard living at home.

AUTOMATIC PREDICTION OF COVID19 WITH INTEGRATED FORECASTING METHODS

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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This is to certify that the project work entitled "AUTOMATIC PREDICTION OF COVID19 WITH INTEGRATED FORECASTING METHODS" is being submitted by K.KAVYA (18U41A0417), S.GUNA (18U41A0431), M.SAI SOWJANYA (18U41A0545), M.MADHAVI (18U41A0423) in partial fulfillment of the Requirement for the award ofthe degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2018-2022.

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EXTERNAL EXAMINER

ABSTRACT

There is much to learn about the novel corona virus (SARS-CoV-2) that causes corona virus disease 2019 (COVID-19). Based on what is currently known about COVID-19, COVID-19 spreads mainly among people who are in close contact (within about 6 feet) for a prolonged period. Spread happens when an infected person coughs, sneezes, or talks, and droplets from their mouth or nose are launched into the air and land in the mouths or noses of people nearby. The droplets can also be inhaled into the lungs. Recent studies indicate that people who are infected but do not have symptoms likely also play a role in the spread of COVID-19. Since people can spread the virus before they know they are sick, it is important to stay at least 6 feet away from others when possible, even if you or they do not have any symptoms. Social distancing is especially important for people who are at higher risk for severe illness from COVID-19.

Currently, the detection of corona virus disease 2019 (COVID-19) is one of the main challenges in the world, given the rapid spread of the disease. Recent statistics indicate that the number of people diagnosed with COVID-19 is increasing exponentially, with more than 1.6 million confirmed cases; the disease is spreading to many countries across the world. we analyze the incidence of COVID-19 distribution across the world. We present an artificial-intelligence technique based on a deep convolutional neural network (CNN) to detect COVID-19 patients using real-world datasets.

HEALTH CARE SYSTEM FOR HOME QUARANTINE PEOPLE USING ARDUINO, Wi-Fi and IOT TECHNOLOGY

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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This is to certify that the project work entitled "HEALTH CARE SYSTEM FOR HOME QUARANTINE PEOPLE USING ARDUINO, WI-FI and IOT TECHNOLOGY" is being submitted by K JAYASRI (19U45A0419), L VENKATA SAI TEJASWINI (19U45A0424), A LOKESH (19U45A0402), K RAJESH (19U45A0420) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2021-2022

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Dr . P. POORNA PRIYA
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EXTERNAL EXAMINER

ABSTRACT

In this pandemic COVID-19 crisis, it is not advised to monitor the patient keeping aside all the time for Regular/Basic check-ups. So, a system is proposed to continuously monitor the health condition of the home quarantined as well as the persons who are in remote places using IOT. This system monitors the health parameters continuously such as Pulse Rate, SpO2 Level and Body Temperature by using biosensors. The received values will be transmitted to the nearby medical center or Guardians using wireless technology which displays their condition. If any of the health parameters exceeds their normal level then the buzzer at receiver section will respond with SOS signal and the preventive action will be taken by respective authorities. The above-proposed health monitoring system will be designed using Arduino, Wi-Fi and IOT technology.

Keywords: Arduino, Wi-Fi Module and IOT Technology

HEALTH CARE SYSTEM FOR HOME QUARANTINE PEOPLE USING ARDUINO, Wi-Fi and IOT TECHNOLOGY

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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EXTERNAL EXAMINER

ABSTRACT

In this pandemic COVID-19 crisis, it is not advised to monitor the patient keeping aside all the time for Regular/Basic check-ups. So, a system is proposed to continuously monitor the health condition of the home quarantined as well as the persons who are in remote places using IOT. This system monitors the health parameters continuously such as Pulse Rate, SpO2 Level and Body Temperature by using biosensors. The received values will be transmitted to the nearby medical center or Guardians using wireless technology which displays their condition. If any of the health parameters exceeds their normal level then the buzzer at receiver section will respond with SOS signal and the preventive action will be taken by respective authorities. The above-proposed health monitoring system will be designed using Arduino, Wi-Fi and IOT technology.

Keywords: Arduino, Wi-Fi Module and IOT Technology

MEASURING PLATELET COUNT BY USING CONTOUR AWARE SEGMENTATION

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the Project work entitled "MEASURING PLATELET COUNT BY USING CONTOUR AWARE SEGMENTATION" is a being submitted by R.Latha (18U41A0428), P. Sri Ramya (18U41A0449), K.Yamini (18U41A0415), A.Ram Jagan (18U41A0402) impartial fulfilment of the requirements for the award of the BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION during the academic year 2021-2022.

Mr. R . SUNEEL KUMAR	**Dr. P. POORNA PRIYA**
(Assistant Professor)	**(Associate Professor)**
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EXTERNAL EXAMINER

ABSTRACT

Platelet count is a very important diagnosis test to identify Diseases like Dengue, Malaria, Yellow fever, and others. For dengue patient monitoring platelet count is often needed. A suspected dengue patient needs a very quick diagnosis to give an accurate result of how critical is the condition of the patient. In most laboratories, Leishman's stained blood slides are used to count platelets. However, these manual platelet counting requires expert lab technician and the overhead increases manifold when huge blood samples are to be checked by lab technicians that make the entire process time-consuming. So, we can extract platelets from the microscopic image of blood cells, and that makes platelet counting task easy. Microscopic images of stained blood slides are captured using a light microscope.

Then using color-based segmentation and morphological operation, Platelets can be extracted. A comparative study between the platelet counts obtained before and after segmentation along with calculation of the efficiency of the system has shown this method to be robust and effective for automation of platelet count system.

KEYWORDS: MATLAB, Microscopic Image, Morphological analysis, Image Processing.

MEDICAL IMAGE DENOISING BY USING WAVELET TRANSFORM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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CERTIFICATE

This is to certify that the Project work entitled "MEDICAL IMAGE DENOISING BY USING WAVELET TRANSFORM" is abeing submitted byB.PAVANI(19U45A0406),G.TEJASRI(19U45A0413),CH.LATHA(19U45A0408), G.MOUNKA(19U45A0442) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERINGduring the academic year 2021-22.

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EXTERNAL EXAMINER

ABSTRACT

The project deals with the use of wavelet transform for signal and image de-noising employing a selected method of thresholding of appropriate decomposition coefficients. The proposed technique is based upon the analysis of wavelet transform and it includes description of global modification of its values. The whole method is verified for simulated signals and applied for processing of biomedical signals representing EEG signals and MR images corrupted by additional random noise.

Image denoising is an important pre-processing step in medical image analysis. The basic intent of image denoising is to reconstruct the original image from its noisy observation as accurately as possible, while preserving important detail features such as edges and textures in the denoised image. In medical imaging, for the precise analysis of diseases denoising of medical images like X-RAY, CT (Computed Tomography), MRI (Magnetic Resonance Imaging), PET (Positron Emission Tomography) and SPECT (Single Photon Emission Computed Tomography) is essential since a small lossof a particular area in case of medical images may results in immense disaster similar to death.

KEYWORDS: MATLAB, Image Denoising, Image Processing, Wavelet Transform, Thresholding.

TRACKING A MANOEUVRING TARGET WITH RADAR MEASUREMENTS USING EXTENDED KALMAN FILTER

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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Dr. KAUSAR JAHAN	**Dr. P.POORNA PRIYA**
(ASSISTANT PROFESSOR)	**(ASSOCIATE PROFESSOR)**
(PROJECT GUIDE)	(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER

ABSTRACT

In this research work, a target Monoeuvring in its course is tracked using Aerial Unmanned Vehicle (AUV) in three-dimensional space making use of bearing angle, range, and elevation angle measurements. An Extended Kalman filtering algorithm is considered for processing noise altered measurements. An algorithm that uses chi-square distribution is proposed for the detection of any manoeuvr in target parameters. The statistics about the estimated target parameters are provided to armament administration with the help of a communication arrangement like a global positioning system. Details of mathematical modeling for simulating and implementation of the target and observer paths and outcomes are presented in this work.

PASSIVE TARGET TRACKING USING SONAR MEASUREMENTS

A Project Report submitted in partial fulfillment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

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EXTERNAL EXAMINER

ABSTRACT

The main objective of this project is to track an underwater target using Sound Navigation and Ranging (SONAR) measurements in passive mode, in two–dimensional space making use of bearing angle measurements. An Extended Kalman filter algorithm is considered for processing noise altered measurements. A simulator is developed to generate the true and estimated values of observer and target moments. The result analysis is done based on RMS values of the results obtained from Monte-Carlo simulations. Details of mathematical modelling for simulating and implementation of the target and observer paths outcomes are presented in this work.

IOT BASED DRUNK DRIVER DETECTION & ANALYSIS USING MACHINE LEARNING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

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ABSTRACT

Now a days drunk driving is a growing problem in our country and accounts for one-third of traffic related accidents and deaths. Driving under influence of alcohol has affected and killed countless of people's lives. If you drink and drive, not only you put yourself at risk, but your passengers and pedestrians, and other people who were on the roads will be at risk. For every thirty minutes someone's life is cut short and families are devastated. Due to this drunk driving many innocent families are accused and losing their lives.

To overcome this problem, we propose an efficient system on Drunk Driver Detection using Internet of Things. The MQ3 alcohol sensor is used in this system to detect the alcohol levels of the driver. If the sensor detects drunken driver, a notification alert is passed to the vehicle's owner as well as to the nearby police station. Then the owner or police may take severe action on the driver. The driver's data gets analysed to impose the punishments. Hence the proposed live project IOT based Drunk Driver Detection is the need of the day and can save many lives on Road.

Keywords: Drunk Driving, Drunk Driver Detection, Internet of Things, MQ3 alcohol sensor, IOT based Drunk Driver Detection, Machine Learning, Navies Bayes.

ANALYSIS AND PREDICTION OF INDUSTRIAL ACCIDENTS USING MACHINE LEARNING

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

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ANALYSIS AND PREDICTION OF INDUSTRIAL ACCIDENTS USING MACHINE LEARNING

ABSTRACT

With the different businesses in today's environment, there is a huge development in the measure of information being created from various sources. With this tremendous measure of information being generated day by day, there is a requirement for the information to be investigated and be managed methodically. There has been an increase in the number of accidents ever since the evolution of such industries. Even with the diverse industrial safety and accident prevention systems available, they haven't been efficient in managing a wide range of parameters and be able to effectively predict them by handling a large amount of data. Moreover, with the existing systems, the cost of planning and storing the data is soaring. In this research, a conceptual system is made that utilizes low-cost storage and process data in less time. It additionally utilizes Machine Learning, NLP and Random Forest calculation so as to comprehend and foresee mishaps in Industrial condition. The industrial data is procured from one of the largest industries in Brazil and the world which records the industrial accidents that took place in every nation. The information is investigated and prepared with Machine Learning algorithm so as to comprehend the reasons for such incidents and how the expectation of future accidents can be done. Subsequently, the framework can think about an assortment of parameters and decide future happenings with exactness.

CUSTOMER SEGMENTATION USING K-MEAN CLUSTERING ALGORITHM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

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ABSTRACT

The essence of the modern era is innovation, with everyone competing to be better than the others. Today's business is based on the power of such innovation, there is no easier route into personalized marketing than market segmentation. By breaking down your customers into groups, you can target your resources and ensure your audience receives the one that is most relevant to them or what they fancy for. Every business company tries to expand their business by starting up their branches in different locations. In order to help the entrepreneurs to increase their revenue, profits and number takes raw unlabelled data as an input and divides the dataset into clusters and the process is repeated until the best clusters are found of sales we came up with a machine learning based customer segmentation from existing customer data. Customer segmentation from existing data helps in identifying the most potential customers in a particular location, products that customers could be interested in. This segmentation of customer data into clusters can be done using K-Mean clustering which is an unsupervised machine learning algorithm that takes raw unlabelled data as an input and divides the dataset into clusters and the process is repeated until the best clusters are found.

Agricultural Robot – Using Internet of Things

A Project Report Submitted in partial fulfilment of the requirements of the award of the degree of
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IN
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EXTERNAL EXAMINER

IOT BASED SMART STREET LIGHT SYSTEM

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

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COMPUTER SCIENCE AND ENGINEERING

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TABLE OF CONTENTS

HEART DISEASE PREDICTION

USING MACHINE LEARNING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

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IN

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ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of any task would be in complete without the mention of people who made it possible and whose constant guidance and encouragement crown all the efforts with success.

First and for most, we would like to thank our project guide **Mrs. K KOMALI**, Department of Computer Science and Engineering for giving us an opportunity to work on this challenging topic and providing us guidance. Her encouragement, support and suggestions are most valuable for the successful completion of our course.

We feel elated to extend our floral gratitude to Head of the department , **Mrs. K KOMALI** Department of Computer Science and Engineering for his encouragement all the way during analysis of the project. His annotations, insinuations and criticisms are the key behind the successful completion of during project and for providing us all the required facilities.

We would like to take this opportunity to express our profound sense of gratitude to revered PRINCIPAL, **Dr.CH.NARASIMHAM** for giving us the opportunity of doing this project and for providing us all the required facilities.

We would like express our deep sense of gratitude to honourable Chairman, **Sri D. RATNAKAR** for the resources and infrastructure provided for working on this project without any obstacles. The motivation and support given by the management is deeply adorable and we are fortunate to get a chance to work in this marvellous environment.

We also take this opportunity to express our heartfelt thanks to teaching and nonteaching staff of the department, for their perspective comments and suggestions. We would like to thank our beloved parents for being patient,

SENTIMENT ANALYSIS ON REVIEWS USING MACHINE LEARINING

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

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ABSTRACT

With the increasing rate at which data is created by internet users on various platforms, it becomes necessary to analyze and make use of the data by the Defense and other Government Organizations and know the sentiment of the people. This shall help the organizations take control of their actions and decide the steps to be taken shortly. Added to it, when something crucial is happening in the nation, it is of paramount importance to decide every step without hurting/violating the sentiments of the people. In the era of Microblogging, which has become quite a popular tool of communication, millions of users share their views and opinions on various day-to-day life issues concerning them directly or indirectly through social media platforms like Twitter, Reddit, Tumblr, Face book. Data from these sites can be efficiently used for marketing or social studies. In this paper, we have taken into account various methods to perform sentiment analysis. Sentiment Analysis has been performed by using Machine Learning Classifiers. Polarity-based sentiment analysis, and Deep Learning Models are used to classify user's tweets as having ‘positive’ or ‘negative’ sentiment. The idea behind taking in various model architectures was to account for the variance in the opinions and thoughts existing on such social media platforms.

AUTOMATIC TIMETABLE GENERATOR

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

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COMPUTER SCIENCE AND ENGINEERING

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ABSTRACT

The objective of the research is to create a model using genetic algorithm, which can be effectively used to resolve it. To create timetable, it requires lots of time and man power so, we have tried to reduce these difficulties of generating timetable by Genetics Algorithm. That aims to all the levels of management providing information within an organization. This system can be used as a Timetable management system for the college. Time table is needed to be scheduled in such a way that the number of different courses with number of subjects in each, handled by a limited faculty provided with their slots and timings do not overlap. Timetable generator automatically schedules timetable for students and faculty which reduces the manual work. Once the inputs like faculty with their respective subjects are given it will generate the period slots for the entire week and also for the substitution hours.

Keywords: genetic algorithm, time table, constraints, chromosomes.

SECURE DIGITAL VOTING SYSTEM BASED ON BLOCKCHAIN TECHNOLOGY

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

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ABSTRACT

Some forms of voting have been here ever since. Mostly used form all over the world are paper ballots. Electronic voting schemes are being popular only in the last decade and they are still unsolved. E-voting schemes bring problems mainly regarding security, credibility, transparency, reliability, and functionality. Estonia is the pioneer in this field and may be considered the state of the art. But there are only a few solutions using block-chain. block-chain can deliver an answer to all of the mentioned problems and furthermore bring some advantages such as immutability and decentralization. The main problems of technologies utilizing block-chain for e-voting are their focus on only one field or lack of testing and comparison. In this paper, block chain-based e-voting platform is implemented in which it can be used for any kind of voting. It is fully utilized by block-chain and all processes can be handled within it. After the start of the voting, the platform behaves as fully independent and decentralized without possibilities to affect the voting process. The data are fully transparent, but the identity of voters is secured by homomorphic encryption. It‟s been tested and compared the solution in three different block chains. The results show, that both public and private block chains can be used with only a little difference in the speed. The key novelty of our solution is a fully decentralized management of e-voting platform through block-chain, transparency of the whole process and at the same time security and privacy of the voters thanks to homomorphic encryption.

FACE MASK DETECTION USING MACHINE LEARNING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

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IN

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TABLE OF CONTENTS

IOT BASED AUTOMATIC BODY TEMPERATURE AND METAL DETECTION SCANNER

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TABLE OF CONTENTS

CROP YIELD PREDICTION AND EFFICIENT USE OF FERTILIZERS USING MACHINE LEARNING

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

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This is to certify that the Project work entitled "**Crop Yield Prediction and Efficient Use of Fertilizers Using ML**" is a being submitted by G.DEEPIKA (18U41A0521), B. RANADHEER KRISHNA(18U41A0513), HARIKRISHNAN G. ANIL (18U41A0523), K. MAHESWARI (18U41A0529)in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2021-22.

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EXTERNAL EXAMINER

SAFETY AND SECURITY CHECK USING EMBEDDED SYSTEM

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

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(2018 – 2022)

ABSTRACT

The Aim of the project **"SAFETY AND SECURITY CHECK USING EMBEDDED SYSTEM"** is to ensure a contactless human body temperature measurement along with detecting metal objects like knives, keys etc and to provide Automated hand sanitizer. First module of this project is detection of body temperature, for this MLX90614 temperature sensor can be used. Second module of this project includes walk through metal detector to detect various metal objects. The walk-through metal detectors create large magnetic fields that cover all of the space inside the rectangular arch of the metal detector. A person walks through the metal detector and Buzzer sound is made if the person carry any unauthorized objects. For this Inductive proximity sensor can be used. Third module of this project includes IR Sensors to provide an automated hand sanitization. This project is an essential preventive measure for reducing disease transmission in public places particularly during the COVID-19 pandemic and also to reduce malpractices during exams.

Keywords: MLX90614 temperature sensor, Inductive proximity sensor, IR sensor , LED Display ,LCD, Buzzer.

AN ARTIFICIAL INTELLIGENCE APPROACH FOR PLANT DISEASE IDENTIFICATION

A Project Report Submitted In Partial Fulfilment Of The Requirements Of The Award Of The Degree Of

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ABSTRACT

Plant diseases are a major threat to farmers, consumers, environment and the global economy. In India alone, 35% of field crops are lost to pathogens and pests causing losses to farmers. Indiscriminate use of pesticides is also a serious health concern as many are toxic and biomagnified. These adverse effects can be avoided by early disease detection, crop surveillance and targeted treatments. Most diseases are diagnosed by agricultural experts by examining external symptoms. However, farmers have limited access to experts. Our project is the first integrated and collaborative platform for automated disease diagnosis, tracking and forecasting. Farmers can instantly and accurately identify diseases and get solutions with a mobile app by photographing affected plant parts. Real time diagnosis is enabled using the latest Artificial Intelligence algorithms (CNN) for image processing. The AI model continuously learns from user uploaded images and expert suggestions to enhance its accuracy. Farmers can also interact with local experts through the platform. A web interface allows experts to perform disease analytics with geographical visualizations. In our experiments, the AI model (CNN) was trained with large disease datasets, created with plant images self-collected from many farms over 7 months. Test images were diagnosed using the automated CNN model and the results were validated by plant pathologists. Over 95% disease identification accuracy was achieved. Our solution is a diverse agricultural crop plants and can be deployed as a good service for farmers and experts for ecologically sustainable crop production.

EVALUATION OF DIABETES DATA USING MACHINE LEARNING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

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ABSTRACT

Diabetes is an illness caused because of high glucose level in a human body. Diabetes should not be ignored if it is untreated then Diabetes may cause some major issues in a person like: heart related problems, kidney problem, blood pressure, eye damage and it can also affect other organs of human body. Diabetes can be controlled if it is predicted earlier. To achieve this goal this project work we will do early prediction of Diabetes in a human body or a patient for a higher accuracy through applying, Various Machine Learning Techniques. Machine learning techniques Provide better result for prediction by constructing models from datasets collected from patients. In this work we will use Machine Learning Classification and ensemble techniques on a dataset to predict diabetes. Which are KMean clustering, K-Nearest Neighbor (KNN), Naïve bayes, Linear Regression (LR) and Random Forest (RF). The accuracy is different for every model when compared to other models. The Project work gives the accurate or higher accuracy model shows that the model is capable of predicting diabetes effectively.

Keywords: Diabetes, Machine Learning, Prediction, Dataset, Ensemble

CHRONIC KIDNEY DISEASE ANALYSIS AND PREDICTION USING MACHINE LEARNING

A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of

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Abstract

The field of biosciences have progressive to a higher extent and have generated large amounts of information from Electronic Health Records. This has given rise to the acute need of knowledge generation from this enormous amount of data. Data mining methods and machine learning play a major role in this aspect of biosciences. Chronic Kidney Disease (CKD) is a condition in which the kidneys are damaged and cannot filter blood as they always do.

A family history of kidney diseases or failure, high blood pressure, type 2 diabetes may lead to CKD. This is a lasting damage to the kidney and chances of getting worse by time are high. The very common problems that result due to kidney failure are heart diseases, anemia, bone diseases, high potassium and calcium. The worst case situation leads to complete kidney failure and necessitates kidney transplant to live. An early detection of CKD can increase the quality of life to a greater extent. This calls for a good prediction algorithm to predict CKD at an earlier stage. Literature shows a wide range of machine learning algorithms employed for the prediction of CKD. This paper uses data preprocessing, data transformation and various classifiers to predict CKD and also proposes the best Prediction framework for CKD. The results of the framework show promising results of better prediction at an early stage of CKD.

Keywords: chronic kidney Disease , confusion matrics, random forest , training data, prediction, accuracy

IOT BASED SMART STREET LIGHT SYSTEM

A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of

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TABLE OF CONTENTS

AgriCult – Using Internet of Things

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ABSTRACT

The agricultural robot is used to reduce human efforts made by farmers during farming. There are many aspects to the future of this AgriCult. Agriculture is considered one of the most important economic activities in India. The bot uses various techniques that help us track the various activities involved in the farming process such as ploughing, seeding. The multi functionality of the robot will also help the farmer use the same robot for several activities, and make it available at any time as it will be stored in a cloud server. Farmers using bots will be easier to do farm activities in the field.

In recent years, robotics in agriculture sector with its implementation based on precision agriculture concept is the newly emerging technology. The main reason behind automation of farming processes are saving the time and energy required for performing repetitive farming tasks and increasing the productivity of yield by treating every crop individually using precision farming concept. Designing of such robots is modelled based on particular approach and certain considerations of agriculture environment in which it is going to work.

These considerations and different approaches are discussed in this project. Also, prototype of an Agriculture Robot is presented which is specifically designed for seed sowing task. It is a four wheeled vehicle which is controlled by Mobile Application called Blynk remotely.

KEYWORD: Smart Agriculture, Internet of Things, Submersable Motor, DC Motors, NodeMCU, Blynk Cloud, Arduino, L298 Motor.

FACE MASK DETECTION USING OPEN CV

A Project report submitted in partial fulfillment
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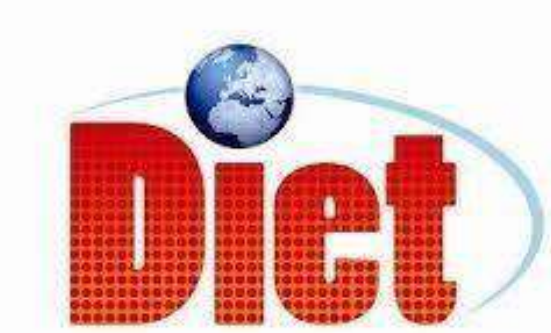

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ABSTRACT

In this pandemic has rapidly affected our day to-day life disrupting the world trade and movements. Wearing a protective face mask has become a normal. In the near future, many public service providers will ask the customers to wear masks correctly to avail of their services. Therefore, face mask detection has become a crucial task to help global security.

This project presents a simplified approach to achieve this purpose using some basic Machine Learning packages like OpenCV and Scikit-Learn. The proposed method detects the face from the image correctly and then identifies it has a mask on it or not. As a surveillance task performer, it can also detect a face along with the mask in motion. This method attains accuracy almost up to 90% on two data sets.

We explore optimized values of parameters using the Viola Jones detection framework used to detect the presence of masks correctly without causing over-fitting.

Structural Health Monitoring (SHM) -using IOT

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ABSTRACT

In the developing country like India, constructions are growing rapidly day by day at the same time monitoring plays a crucial role for the safety of the people but due to the irresponsibility of monitoring team and monitoring was not done at right time then the severity of the problem increases and leads to the damage to the structure. If the monitoring of the structure is done at the right time, then we can find the problem at the initial stage.

To overcome this problem, we came up with this project i.e., STRUCTURAL HEALTH MONITORING(SHM)using IOT. In this we arrange multipurpose sensors to the structure which will sense the deflection in the structure, fire in the structure, smoke in the structure. When the sensor detects any problem then alert notification will be send to the authenticated user. when the notification is sent then there is a chance to take an immediate action so that there is a chance of reducing the risk and increase in the safety

KEYWORDS: mq2 sensor, flame sensor, LDR sensor, GSM module, Arduino, buzzer, monitoring, deflection, structure, Internet of Things

SECURE DIGITAL VOTING SYSTEM BASED ON BLOCKCHAIN TECHNOLOGY

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(2018-2022)

ABSTRACT

Some forms of voting have been here ever since. Mostly used form all over the world are paper ballots. Electronic voting schemes are being popular only in the last decade and they are still unsolved. E-voting schemes bring problems mainly regarding security, credibility, transparency, reliability, and functionality. Estonia is the pioneer in this field and may be considered the state of the art. But there are only a few solutions using block-chain. block-chain can deliver an answer to all of the mentioned problems and furthermore bring some advantages such as immutability and decentralization. The main problems of technologies utilizing block-chain for e-voting are their focus on only one field or lack of testing and comparison. In this paper, block chain-based e-voting platform is implemented in which it can be used for any kind of voting. It is fully utilized by block-chain and all processes can be handled within it. After the start of the voting, the platform behaves as fully independent and decentralized without possibilities to affect the voting process. The data are fully transparent, but the identity of voters is secured by homomorphic encryption. It's been tested and compared the solution in three different block chains. The results show, that both public and private block chains can be used with only a little difference in the speed. The key novelty of our solution is a fully decentralized management of e-voting platform through block-chain, transparency of the whole process and at the same time security and privacy of the voters thanks to homomorphic encryption

DETECTION AND CLASSIFICATION OF FRUIT DISEASES USING IMAGE PROCESSING & MACHINE LEARNING

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ABSTRACT

Diseases in fruit cause devastating problem in economic losses and production in agricultural industry worldwide. In this paper, a solution for the detection and classification of fruit diseases is proposed and experimentally validated. The image processing based proposed approach is composed of the following steps; in the first step K-Means clustering technique is used for the image segmentation, in the second step some features are extracted from the segmented image, and finally images are classified into one of the classes by using a Support Vector Machine. Our experimental results express that the proposed solution can significantly support accurate detection and automatic classification of fruit diseases.

Keywords-K-Means Clustering; Support Vector Machine; Texture Classification