

# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC)

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitle "AUTOMATIC DOOR LOCKING AND CONTROLLING THE SYSTEM USING ESP32 AND BLYNK SERVE WITH LCD MESSAGE DISPLAY" is being submitted by OGGU HIMASAISRI (17P31A0404), MUSULLA ACHYUTH RAM (17P31A0435), AKASAPU CHARAN (17P31A0402), MARRI JAGADESH (17P31A0432) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

**Project Guide**

**Mr.P. Ramesh Kumar, M. Tech, (Ph.D)**

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**Dept. of ECE**

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**Dr. R. V. V. KRISHNA, M. Tech, Ph.D.**

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**EXTERNAL EXAMINER**

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitle “**ANDROID PASSWORD BASED REMOTE DOOR OPENER SYSTEM.**” is being submitted by PAIDA VENKATA NAGA SAI MANI KUMAR (17P31A04A2), GADHAMSETTI SATYA SRI VENKATA BHAVANA (17P31A0477), KATTAMURI PAVAN KUMAR (18P35A0415), KUMILI ESWAR RAO (17P31A0492) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

*V.R. Tulasi*

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### CERTIFICATE

This is to certify that Project report entitle "**WALLACE TREE MULTIPLIER USING COUNTER BASED SYMMETRIC STACKING.**" is being submitted by MENDA VIDYADHARI (17P31A0498), ATTI GEETHAANUSHA(17P31A0464), GOPU SATYA TARUN (17P31A0479), SASAPU NAVEEN KUMAR (17P31A04B2) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

*T.V. Bhadra*

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### CERTIFICATE

This is to certify that Project report entitle “KOGGE STONE ADDER USING GDI TECHNIQUE” is being submitted by NURUKURTHI SATYA NAVEEN (17P31A0439), TATIKONDA SAI NAVEEN (18P35A0403), GOLLAPALLI SESHU KUMAR (17P31A0414), MATTAPARTHI RAKESH KUMAR( 18P35A0405) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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### CERTIFICATE

This is to certify that Project report entitle "AUTOMATIC RECOGNITION OF FAKE INDIAN CURRENCY NOTE." is being submitted by KALLEPALLI SINDHURA (17P31A04A86), RAVULAPALLI PRANEETHA (17P31A04B0), MARIREDDY LAKSHMI AKHILA (17P31A0493), PASUPUREDDY RAMKUMAR (17P31A04A6) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

*B. Savithri*

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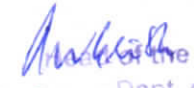
This is to certify that Project report entitle" **VISION LOSS DETECTION USING OPTIC CUP AND OPTIC DISC SEGMENTATION**"is being submitted by PENKE LAVANYA (17P31A04A7), GEDDA PAVAN AVINASH (17P31A0478), BOKKA SINDHUJA (17P31A0467), CHALAMCHARLA MURALI (18P35A0416) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitle” **IMPLEMENTATION OF FAST AND EFFICIENT 4 BIT MULTIPLIER ON IBM QUANTUM COMPUTER** ”is being submitted by KONTHAM VINEELA BHANU (17P31A0423), YANDRAPU DURGA DINESH (17P31A0450), SHAIK MUSTAK (17P31A0451), PENDURTHI GAVIN SAM SASTRI (17P31A0445) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitle "DESIGN OF MODIFIED WILSON CURRENT MIRROR LEVEL SHIFTER" is being submitted by GRANDHI SAI HARIKA (17P31A0481), DASARI DHATHRI (17P31A0474), DIDDI SAI VIKAS (17P31A0475), KORSA HARSHIKA (17P31A0490) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE

This is to certify that Project report entitle **"INTELLIGENT ALCOHOL SENSOR BASED DRUNK AND DRIVE DETECTION WITH VEHICLE DISASTER ALERT SYSTEM USING GPS AND GSM TECHNOLOGY"** is being submitted by THOTA SUJITHA (17P31A0453), PILLA DEVI BHAVANI (17P31A0446), PADALA SAI TEJA (17P31A0440), PEDAMALLU VENKATA SAI MANIKANTA (17P31A0444) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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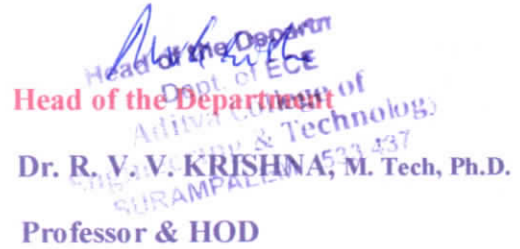
This is to certify that Project report entitle “**DESIGN OF 3-BIT ADDER USING 6 TRANSISTORS IN TANNER EDA TOOL**” is being submitted by BANDREDDI KRISHNA TULASI (17P31A0465), KARRE VENKATA NARENDRA (17P31A0489), NANDHURI DURGA PARVATHI (17P35A0413), JAGATHA RAJENDRA (18P31A0483) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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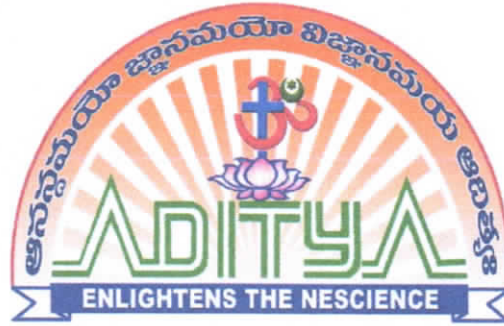
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This is to certify that Project report entitle **"SMART SWAB SYSTEM USING ESP8266 IN HEALTH CARE"** is being submitted by SIDDHA PRATHIMA MOULYA (17P31A04B4), VEDURUPARTHI NAGA MANOJ KUMAR (17P31A04B7), KAKARLAPUDI MADHURI (18P35A0410), KROVVIDI GOSIKUL VAMSI (17P31A0491) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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### CERTIFICATE

This is to certify that Project report entitle "BIOMETRIC AUTHENTICATION IN THREE LAYERS SECURITY FOR BANKING SYSTEMS" is being submitted by PULUKURI NAGASRI ( 17P31A0442), GANDHAM VIJAYA MAHESH BABU (17P31A0412), VULLAGANTI RAMA KRISHNA (17P31A0405), CHIKKALA BABY (16P31A0473) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE


This is to certify that Project report entitle “**DESIGN AND IMPLEMENTATION OF FULL ADDER USING DIFFERENT STYLES OF XOR GATES**” is being submitted by PAGADALA SANDAYA (17P31A0441), DHAVALEASWARAPU VENKALA SAI PHANINDRA (17P31A0458), PATNAIKUNI MITHUN (17P31A0443), MORAMPUDI SAMPATH GOWTHAM VARMA (17P31A0433) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitle "AUTOMATED HYDROPONIC SYSTEM" is being submitted by AYANMPUDI ISWARYA ( 18P35A0406), MANTHARAPU SRI LALITHA CHALANA (17P31A0431), KAJA SOMA SEKHAR (17P31A0418), DONDAPATI JOHN PETER JOSHI (17P31A0411) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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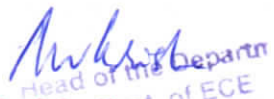
This is to certify that Project report entitle "FACE DETECTION & RECOGNITION FOR ACQUIRING PERSON'S DATA & ATTENDANCE MONITORING." is being submitted by MANGAM VINITHA (17P31A0494), YEGI NOOKARAJU (17P31A04B9), IMANDI CHATURYA (17P31A0482), MARNIVENKATA SURYA VAMSI (17P31A0495) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitle "ONLINE VOTING SYSTEM USING MATLAB." is being submitted by NANDIKOLLA VENKATA DURGA PAVANI (17P31A04A0), MELLACHRUVU PHANI BHARDDWAJ (17P31A0497), CHIKKALA PRAVEEN KUMAR (18P35A0414), JAMPOLU MANIKYAM (17P31A0484) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE

This is to certify that Project report entitle "QUANTITATIVE ANALYSIS OF LUNG CANCER FOR ADENOCARCINOMA CASE FOR SINGLE CLICK ENSEMBLE SIGMENTATION" is being submitted by GRANDHI RENUKA SWATHI (17P31A0415), VINTI CHANDRA SATYA RAVI SHANKAR (17P31A0457), THAMARAPALLI VENKATA NAGESH (18P35A0402), KORADA NAGA VENKATESH (17P31A0425) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE


This is to certify that Project report entitle "MONITORING HAND HYGIENE COMPLIANCE BASED ON IOT & RFID" is being submitted by BIKKINA DIVYA SRI (17P31A0407), KUNCHENAPALLI BALA GANGA NAGA KALYAN (18P35A0407), AMANCHI SRIRAMA CHANDRA SATYADEV (17P31A0401), YENNI BHUJANGARAO (17P31A0448) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitle **"AUTOMATIC SALINE REFILLER AND HEALTH MONITORING FOR COVID-19 PATIENTS USING IOT"** is being submitted by MOGASATI NAGA SIVA JAYA LAKSHMI SUSHMA (17P31A0499), DARBHA NAGA SIVA KEERTHANA (17P31A0473), MUDEDLA PRASANTHI (18P35A0412) , YEGI SAIKUMAR (17P31A04C0) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitle " HYBRID POWER GENERATION SYSTEM USING WIND AND SOLAR ENERGY WITH INVERTER AND ANDROID BASED LOAD CONTROL SYSTEM" is being submitted by GANAGARAPU HARSHIT (17P31A0413), SADHANALA SRI SAI SURYA (17P31A0449), MOTHUKURI ASHOK (17P31A0434), GUDIVADA SRUJANA (17P31A0417) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE

This is to certify that Project report entitle "**BREATHING AID DEVICE TO SUPPORT NOVEL CORONA VIRUS(COVID 19) INFECTED PATIENTS.**" is being submitted by BODIREDDY SAI ROSHINI (17P31A04A66), VELUGUBANILA VENKATA DURGA SAI SARAN TEJA (17P31A04B8), SAURABH KUMAR (17P31A04B5), KANDIKONDA BHAGYA PARVATHI (17P31A0487) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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### CERTIFICATE


This is to certify that Project report entitle "ISOLATED HEALTH MONITORING SYSTEM USING IOT INDUCED FOR COVID 19" is being submitted by PENKY RESHMA (17P31A04A8), MEDAPATI SATHI REDDY (17P31A0496), CHIPPADAVIJAY VENKATA KRISHNA (17P31A0472) , KOLAVENNU SAI SREERAMKUMAR (18P35A0418) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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This is to certify that Project report entitle **"IOT BASED WEATHER REPORTING SYSTEM"** is being submitted by SUMANT KUMAR PANDAY (17P31A0452), GADELA JAYA BHARGAVI (18P35A0401), ADDALA H V V NAGA SATYA SANDEEP (18P35A0409), KILANI VENKATA CHANDRA RAO ( 17P31A0421) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitle" **FACE MASK DETECTION AND TEMPERATURE CHECK WITH GATE CONTROLLING USING RASPBERRY PI MLX90614.**" is being submitted by PODURI ALEKHYA (17P31A04A9), SAI VENKATA PADMA PRIYA VASAMSETTI (17P31A04A2), KAKI VENKATA SURYAKANTHA PRAHARSHA (17P31A0485), SRIPADAM ANIL KUMAR (17P31A04B6) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitle" **COVID PATIENT HEALTH MONITORING SYSTEM**" is being submitted by KONDAPALLI ADITHYA (17P31A0422), DOMMETI KHYATHI SRI (17P31A0410), BOBBILI SREE HARSHAVARDHAN SAI (17P31A0408),NEMANI LOKESH ( 17P31A0438) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.



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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entit" **SIMULATION OF MM-WAVE CIRCULAR PATCH ARRAY ANTENNA**" is being submitted by KANDULA SUBRAHMANYESWARI SWATHI (17P31A0419), VASAMSETTI MAHESH CHANDRA (17P31A0456), KOPPISETTI SRI LAKSHMI ALEKYA (17P31A0424), NIDADAVOLU DURGA PRASAD RAMESH (17P31A0428) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitle "**FINGERPRINT VOTING SYSTEM**" is being submitted by GORU JAYA RAJ (17P31A0480), PAKKURUTHI DURGA BHAVANI (17P31A04A3), NELLURI CHANDRA SEKHAR (17P31A04A1), ADAPA RAKESH (17P31A0461) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitle "ARDUINO BASED SAFETY DEVICE FOR WOMEN USING GPS AND GSM TECHNOLOGY" is being submitted by ANALA VENKATA SAI AMURUTHA (17P31A0463), CHERUKUPALLI V S D RADHAKRISHNA ABHILASH (17P31A0470), DONTAMSETTI DEVI CHAITANYA KUMAR (17031A0476), KEERTHI DURGESH KUMAR (18P35A0417) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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### CERTIFICATE

This is to certify that Project report entitle "POWER GENERATING SYSTEM BY FOOTSTEP" is being submitted by KOTTALA VEERA BHADRA RAO (17P31A0426), MANTHA LAKSHMI SASVITHA (17P31A0430), AMAJALA BHAVANI VENKATA SAI KUMAR (17P31A0404), ALLAVARAPU DEVI SRISAI CHAITHANYA (17P31A0403) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitle "SECRET DATA HIDING IN COMPRESSED INTER-FRAMES FOR COPYRIGHT PROTECTION" is being submitted by NADIGATLA RAMYA (17P31A0436), YALLA PAVITRA MANI DEEPIKA (17P31A0427), REDDY U S D VARA PRASAD (17P31A0447), THATIKI ASHOK (18P35A0408) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitle "SKIN CANCER (MELANOMA) SEGMENTATION USING CONVOLUTIONAL NEURAL NETWORKS" is being submitted by VALLLAMKONDA V S S N NEELIMA (17P31A0455), GUBBALA SRI SATYA NAGA ANNAPURNESWARI (17P31A0416), CHILUKURI LEKHANA CHOWDARY (17P31A0409), MALI VISHAL (17P31A0429) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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### CERTIFICATE


This is to certify that Project report entitle "DETECTION AND CLASSIFICATION OF PLANT LEAF DISEASE IN IMAGE PROCESSING BY USING MATLAB" is being submitted by SATHI VEERRAGHAVA REDDY (17P31A04B3), PASUMARTHI VENKATA GANESH (17P31A04A5), AMIT KUMAR SAMANTA (17P31A0462), KANNEPALLI LAKSHMI MEGHANA (17P31A0488) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled “ANALYSIS AND IMPROVEMENT OF WRITE STATIC NOISE MARGIN FOR SRAM USING ASSIST TECHNIQUES” is being submitted by AKELLA MANASA (17P31A04C2), KARRI SURYA HARIKA (18P35A0420), PILLA PADMA RAMA VENKATA SANTHOSHI LAKSHMI (17P31A04G), DANGETI CHARISHMA BHAVANI (17P31A04D) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE


This is to certify that Project report entitled "IOT BASED INDUSTRY PROTECTION AND CONTROLLING USING ARM MICROCONTROLLER" is being submitted by BANDI VARA NAGA SAI CHAKRA SRIDEVI (17P31A04C7), MEKA VARSHA SAI MANI DEEPIKA (17P31A04F4), KAMIREDDY MANOHAR (18P35A0419), PEMMANABOIDI VENKATA SAI KIRAN (17P31A04F8) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitled "IOT BASED INDUSTRY PROTECTION AND CONTROLLING USING ARM MICROCONTROLLER" is being submitted by BODDU VENKATA DHARANI (17P31A04C9), TUMMALAPALLI LAKSHMI PRASANNA (17P31A04H1), KANTIPUDI YAMUNA SRI (17P31A04E1), ANGARA VINAYSURYA (17P31A04C4) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE


This is to certify that Project report entitled "COPY MOVE FORGERY DETECTION USING STEERABLE PYRAMID TRANSFORM (SPT) WITH NAVIE BAYES CLASSIFIER" is being submitted by SHAIK ROSHINI(17P31A04G7), PASUPULETI RAMYA SATYA (17P31A04F7), ALLAPARTHI SHARON PUSHPA VALLI (17P31A04C3), AKSHINTALA SURESHKUMAR (18P35A0426) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled “**DIAGNOSIS OF PNEUMONIA USING CONVOLUTION NEURAL NETWORK**” is being submitted by KOVVURI SAHITHI(17P31A04E8), KEERTHI PRATHYUSHA (17P31A04E4), LAKKOJU SRI CHAITANYA (17P31A04E9), BANDARU MOHAN KISHORE (17P31A04C5) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE

This is to certify that Project report entitled "FLOOR VACUUM CLEANER USING ARDUINO" is being submitted by KOMMOJU LAVANYA (17P31A04E5), MAMIDI PAKA VVNL DURGAMANI (17P31A04F3), MALLIDI LAKSHMAN REDDY (17P31A04F2), SATYAMSETTI NAGA SUNNY (17P31A04G3) in the partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitled “**SURVEILLANCE AND SPRAYING QUADCOPTER**” is being submitted by KONA ASHOK KUMAR (17P31A04E6), YANDAMURI ACHYUT (17P31A04H8), NEELAPALA JAGADEESH (17P31A04F6), VALLEPALLI MURALI (17P31A04H3), GOLLAVILLI AVINASH NAIDU (17P31A04D5) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE

This is to certify that Project report entitled "AGE CLASSIFICATION USING BRAIN MRI IMAGES" is being submitted by INUGANTI UHA SSHA ANDALU (17P31A04D7), PENDYALA JYOTHI SWAROOP KUMAR (17P31A04F9), K.Keerthi (17P31A04E3), UPPU SIVA SAI TEJA (17P31A04H2) in the partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled "BIKE RIDER'S HELMET AND TRIPLE RIDING DETECTION FOR LAW ENFORCEMENT USING REAL TIME SURVEILLANCE" is being submitted by YANAMADALA SAI SRI SATHVIKA (17P31A04H7), MALLIPUDI MURALI KRISHNA (18P35A0421), SUNDARAPALLI SRI LAKSHMI DEEPIKA (18P35A0425), YESWANTH REDDY KETHAM (17P31A04H9) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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### CERTIFICATE

This is to certify that Project report entitled "SIGNIFICANT ENHANCEMENT IN THE OPTICAL AND ELECTRICAL PROPERTIES OF NITROGEN DOPED GRAPHENE QUANTUM DOTS (N-GQDS)" is being submitted by SAILA PRAGNYA (17P31A04G1), ADABALA SATYA SUDHEERA (17P31A04C1), RAYALASAI CHANDANA (17P31A04G0), GUNDU SASI PREETHAM (17P31A04D6) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE

This is to certify that Project report entitled "ROLE OF FILTER BANK MULTICARRIER MODULATION TECHNIQUE FOR FUTURE WIRELESS COMMUNICATIONS" is being submitted by MADDIPATI GREESHMA DEVI (17P31A04F1), DUDI SUMANTHI (18P35A0421), GUNDUMALLA SRIDEVI (18P35A0423), SEELA SAI ANIL KUMAR (17P31A04G5) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled “**BI-DIRECTIONAL VISITOR COUNTER USING IOT**” is being submitted by **BANDI DURGA NOOKAMBICA** (17P31A04C6), **KADIYALA NAGADEVI** (17P31A04D8), **BEZAWADA YOGESH KUMAR** (17P31A04C8), **KORASIKA OM SAI** (17P31A04E7) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE

This is to certify that Project report entitled "DESIGN AND IMPLEMENTATION OF OBJECT DETECTION ANDROID APPLICATION USING DEEP LEARNING" is being submitted by MUTYALA SIVA SANTHOSHI (17P31A04F5), LAKSHMI SUNANDA CHANNA (17P31A04F0), VASAMSETTI SHARON ROJA (17P31A04H4), VEERA GANESH NARLA (17P31A04H5) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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(Permanently Affiliated to JNTUK, Approved by AICTE, Accredited by NAAC)

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled "SPEAKER IDENTIFICATION AND VERIFICATION BY EXTRACTING FEATURES USING CNN" is being submitted by GAJJAVARAPU PRANITHA (17P31A04D4), KANDULA LOKESH REDDY (17P31A04E0), KAKI NAGA VENKATA APPALA LAKSHMI PRATYUSHA (17P31A04D9), VIJURAATHU JAGADESHWARA RAO (17P31A04H6) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

**Project Guide**

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled “**DESIGN OF WALLACE TREE MULTIPLIER BY USING PARALLEL PREFIX ADDERS FOR HIGH SPEED AND AREA EFFICIENT VLSI CIRCUITS**” is being submitted by **KARRI KRISHNA PAVANI (17P31A04E2), BALAM PRAVEEN SAI (18P35A0424), KATHA KEERTHI (17P31A04E3), DESALANKA SITARAMASWAMY (17P31A04D2)** in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
**Project Guide**

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled “**IMAGE RETRIEVAL BASED ON EDGE AND TEXTURE FEATURES FOR MEDICAL DIAGNOSIS FROM MRI BRAIN IMAGES**” is being submitted by SHAIK HAJARA MUNVARA SIDDIIQA(17P31A04G6), SATYAVARAPU VIVEK (17P31A04G4),SAMAYAMANTHULA CHAITANYA VENKATA SAI (17P31A04G2),THATAVARTHY SURYA MYTHREYI (17P31A04H0), CHITIKENA SAIDARSAN (17P31A04D0) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
Project Guide

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled “**LIVE VIDEO STREAMING FOR WOMEN SECURITY SYSTEM USING IOT**” is being submitted by ANALA VASUKI SAI MANGA TAYARU(17P31A04I5), VURA SAI PRIYANKA(17P31A04N5), ADABALA DORABABU(18P35A0429), MOYILLA VILEKHA(17P31A04L4) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
**Project Guide**

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE


This is to certify that Project report entitled **"DESIGN AND ANALYSIS OF VARIOUS SRAM TOPOLOGIES WITH IMPROVED CELL STABILITY"** is being submitted by GUNDABATHULA GEETANJALI(17P31A04K0), VANAPALLI SAI VEERA VENKATA LAKSHMI HARIKA(16P31A04H6), KAKARAPALLI HEMANTH(17P31A04K2), MUMMIDI BHARGAV(17P31A04L6) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled **"IOT BASED VIRTUAL DOCTOR WITH VOICE BASED COMMAND OUTPUT AND MEDICINE DISPENSING SYSTEM"** is being submitted by ADAPA PRIYANKA(17P31A04I2), DESINA RADHA SATYA KRISHNA(17P31A04J4), RIMMALAPUDI VENKATA VAMSI KRISHNA(17P31A04O0), RAVI LOKESH(17P31A04M6) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING




### CERTIFICATE

This is to certify that Project report entitled **"MULTIPURPOSE MILITARY SPYING ROBOT WITH RF WIRELESS CAMERA AND IOT BASED CONTROL SYSTEM"** is being submitted by KARRI SANTA KUMARI(17P31A04K7), PASUPULETI SAI DEEPTHI(17P31A04M1), POTHAMSETTI SRI SATYA RAMYA(17P31A04M5), VURUKURTHI SRI RAMA VINAY(17P31A04N6) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled **"QUALITY ANALYSIS AND PRICING OF RICE GRAIN USING IMAGE PROCESSING"** is being submitted by ADAPA SAI NARASIMHA MURTHY(17P31A04I3), ADAM PRANATHINI(17P31A04I1), YANALA VEERA VENKATA LAKSHMI(18P35A0430), BOLLAM SUBHASH(17P31A04I9) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

*Yd.c. mouli*

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE


This is to certify that Project report entitled "**SMART SAFETY JACKET**" is being submitted by KANCHARLA SURYA SREE(17P31A04K4), GADI LIKHITA(17P31A04J7), GEDA SWETHA SRI(17P31A04J9), MADEM VEERA VENKATA SRI SAI SANDEEP(17P31A04L2) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitled "**AUTOMATIC SOLAR BASED GRASS CUTTER WITH PESTICIDE SPRAYER**" is being submitted by SISTA VENKATA NAGA VEERABHADRA SAI SUDEEP(17P31A04N0), BEPINA KARUNA KUMARI(18P35A0427), PERURI PRATHYUSHA(17P31A04M2), GEDDAMURI YASASSRI(17A61A0413) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE

This is to certify that Project report entitled **"SURVEILLANCE AND SPRAYING QUADCOPTER"** is being submitted by CHINTA KODANDARAMAYYAPPA(17P31A04J2), BILLAKURTHI NAGA SUDHAKAR REDDY(17P31A04I8), DODDA PURNACHANDRA MANIKANTA(17P35A0432), KARRI SATYANARAYANA(17P35A0433), REKADI LAKSHMI SRINIVAS NAICKER(17P31A04M7) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.



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### CERTIFICATE

This is to certify that Project report entitled "**FOOD CATEGORIES CLASSIFICATION AND NUTRITIONAL VALUE ESTIMATION USING CNNs ON RASPBERRY PI 3B**" is being submitted by **NOMULA SANTHOSH PRIYANKA(17A61A0431), MULAKALA VENKATA SAI PRASANNA(17P31A04L5), DOMA DEVI PRASANNA(17P31A04J6), PERUMALLA SURESH(18P35A0434)** in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled “**VERY LOW PROFILE GROUNDED COPLANAR WAVEGUIDE FED DUAL BAND WLAN SLOT ANTENNA FOR ON BODY ANTENNA APPLICATION**” is being submitted by BASSA JYOTHI PRIYA(17P31A04I6), VINTHA LAYA(17P31A04N4), NALLALA KUMAR VENKATA RAMA KRISHNA(17P31A04L7), SAI KIRANMAYI PASUPULETI(18P35A0431) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

**Project Guide**

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled **"IOT BASED HOME SECURITY SYSTEM USING ARDUINO"** is being submitted by SENAPATHI SURENDRA(17A61A0445), DALIPARTHI DEEPAK(17P31A04J3), KOMMIREDDY UDAY KIRAN(17P31A04K9), KARRI HEMA SAI(17P31A04K6) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled **"SMART PHONE CONTROLLED COLOR SENSING AND IDENTIFICATION ROBOT"** is being submitted by KORLA RAMYA(17P31A04L0), DEVARASETTI SIVA SAI(17P31A04J5), SANDIPARTHI BALA CHANDRAMOULI(17A61A0443), YERRAMSETTI SAIRAM(17P31A04N9) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE


This is to certify that Project report entitled **"FULLY AUTONOMOUS CARHOP ROBOT"** is being submitted by GATTIMI AMBIKA SURYA LAKSHMI(17P31A04J8), GURRAM VANDANA(17P31A04K1), CHALLA GOWRI TULASI (17P31A04J1), TUTHIKA PURNA NIKHIL KUMAR(17P31A04N2) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING




### CERTIFICATE

This is to certify that Project report entitled **“AUTOMATIC MASK AND SANITIZER DISPENSER WITH TEMPERATURE CHECKING”** is being submitted by VUTUKURU VENKATA SATYA SAI DURGA SRIVANI (17P31A04N8), KAKI USHA SRI (17P31A04K3), NETINTI LAKSHMANA (18P35A0428), NIMMAKAYALA SATISH (17P31A04L9), KOMALA VEERA VENKATA RAHUL (17P31A04K8) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE

This is to certify that Project report entitled **"INFANT CRY CLASSIFICATION AND RECOGNITION"** is being submitted by REDLA PAVAN KALYAN (17A61A0442), MORAPAKULA UMESH CHANDRA (17P31A04L3), ALLADA SRINIVASU (17A61A0401), VELAMARTHI VENUGOPAL KRISHNA (17P31A04N3) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

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## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### CERTIFICATE


This is to certify that Project report entitled **“LOW-POWER 19-TRANSISTOR TRUE SINGLE-PHASE CLOCKING FLIP-FLOP DESIGN BASED ON LOGIC STRUCTURE REDUCTION SCHEMES”** is being submitted by **SAMBANGI JAGADEESWARI (17P31A04M8), BATHULA VISHNUPRIYA(17P31A04I7), PITANI SUREKHA (17P31A04M3), KERAM AMRUTHA (17P31A04K5), SHAIK HABEEB ASHRAF SHARIFF (17P31A04M9)** in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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### CERTIFICATE


This is to certify that Project report entitled "**LEAF DISEASE DETECTION USING CNN**" is being submitted by MANTHA KAMESWARI SAITEJASWI (17A61A0428),MAMILLAPALLI VENKATA NAGA SRIVASUDHA (17A61A0427),VUTA RAGHU VEERA PHANI SHANKAR (17P31A04N7),PAPOLU JASWANTH (17P31A04M0),ADAPAKA ANUSHA DEVI (17P31A04I4) in the partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRONICS AND COMMUNICATION ENGINEERING** during the academic period of 2020-2021.

  
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