Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Mach Zehnder Interferometer with Multimode for Biosensing application" was carried out by U.Chandrahas (ID No:20181ECE0364), V.Likhitha (ID No:20181ECE0370), Y.Harshitha (ID No:20181ECE0387), and T.Mysuraiah setty (ID No:20181ECE0358) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr.Shwetha M

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Ashubold)

REGISTRAR (Registrar)

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Smart Farming Using Pink Technology" was carried out by Ms. Vaishnavi R (ID No. 20181ECE0124), Mr. Boya Santhosh Kumar (ID No.20181ECE0159), Mr.B. Bhanu Prakash Reddy (ID No. 20181ECE0157), Mr. C. Raja Sekhar Reddy (ID No. 20181ECE0169) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. M S Divyarani

Supervisor & Asst.Professor Department of Electronics and Communication Engineering

Examiner-1

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

REGISTRAR

PRESIDENCY UNIVERSITY Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP-102) work entitled, "VIRTUAL HAND GESTURE RECOGNITION" was carried out by Mr. P.V. YASWANTH REDDY (ID No: 20181ECE0326), Ms. VISWASHREE CH (ID No: 20181ECE0378), Mr. NAKKA MANI KUMAR (ID No:20181ECE0415) and Mr. B.HARISH REDDY (ID No; 20181ECE0424), and Ms. NEHA SHUKLA (ID No: 20191LEC0019) who are Bonafide students of VIII semester B. Tech Electronics & Communication Engineering in Presidency University, this is in partial fulfilment of the course work in place of Professional Practice (PIP-102) of Bachelor of Engineering in Presidency University, Bengaluru during the year 2021-2022.

Mrs. Samreen Fiza

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Examiner -1

Examiner -

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "CONTINUOUS REAL-TIME NON-INVASIVE HEALTH MONITORING SYSTEM FOR PATIENTS" was carried out by Mr. Amith Kumar S (ID No. 20181ECE0011), Mr. Erasupradeepreddy (ID No. 20181ECE0193), Mr. Gondala Sai Venkata Yogesh (ID No. 20181ECE0007), and Mr. B Naveen Surya (ID No. 20181ECE0146) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. VV S Vijaya Krishna
Supervisor & Assistant Professor
Department of Electronics and
Communication Engineering

Examiner-1

Examiner-2 (

18/0/2

Dr. Rajiv Ranjan Singh Professor & Head Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SECURED HUMAN HEALTH RECORD ACCESS USING BIOMETRIC SYSTEM" was carried out by Mr. M SUNIL KUMAR (ID No. 20181ECE0058), Ms. MADIHA NISHATH P (ID No. 20181ECE0059), Mr. NITISH REDDY D (ID No. 20181ECE0077), Ms. PALLAVI A (ID No. 20181ECE0080) and Ms. SAHANA M NAIDU (ID No. 20181ECE0101) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. MUPHUPANDI G
Supervisor & Assistant Professor
Department of Electronics and
Communication Engineering

1 0 10/6/22

Examiner-1

Examiner-2

Dr. RAJIV RANJAN SINGH

Professor & Head
Department of Electronics and
Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "IMPLEMENTATION OF SPATIAL AND FREQUENCY DOMAIN TECHNIQUES OF IMAGE FUSION" was carried out by Mr. Divya Prakash (ID No. 20181ECE0405), Mr. Surya V(ID No. 20181ECE0406), Ms. Prajnaa (ID No. 20181ECE0414), Mr. Jillela Charan (IDNo. 20181ECE0417) and Ms. Sakshi Prajapati (ID No. 20181ECE0423) who are bonafide students of VIII Semester B.Tech. Electronics and CommunicationEngineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs. Samreen Fiza

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

REGISTRAR

Communication Engineering

Examiner-1

Examiner-2

I

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "QUANTITATIVE ANALYSIS OF IMAGE FUSION ALGORITHMS" was carried out by Mr. MACHANI VENKATA RAMANA (ID No. 20181ECE0272), Mr. KURAPATI RANGANATH (ID No. 20181ECE0260), Mr. KUCHI HEMANTH KUMAR NAIDU (ID No. 20181ECE0257), Mr. KASETTY NARASIMHA (ID No. 20181ECE0239) and Mr. MANDATI ASHOK (ID No. 20181ECE0281) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Technology in Presidency University, Bengaluru, during the year 2021-2022.

Mrs. SAMREEN FIZA

Supervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

REGISTRAR (Registrar)

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Ambulance Rescue System and Vehicle Accident Detection and Monitoring using IoT" was carried out by Mr. Chinthalapalli Charan Deep (ID No.20181ECE0178), Mr. Ganesh V (ID No.20181ECE0200), Mr. Ganji Muniteja (ID No. 2018ECE0204), Mr. Jonnalagadda . V.V.N.S.M. Vamsi Krishna (ID No. 20181ECE0225) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Akshaya M Ganorkar Supervisor & Asst. Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "IMAGE DEBLURRING AND SUPER RESOLUTION BY ADAPTIVE SPARSE AND REGULARIZATION" was carried out by Mr. Pokala Sandeep (ID No. 20181ECE0318), Mr. Bavigadda Lokesh Naidu (ID No. 20181ECE0408), Mr. Gajjala Ajay Kumar Reddy (ID No. 20181ECE0421), Mr. Amara Sundar (ID No. 20181ECE0137) and Mr. Yeruva Sreenu (ID No. 20181ECE0388) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Puneeth S B

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "IOT Based Cancellous Bone Health Analysis Using UltraSound Waves " was carried out by Mr.Kamatam Manikanta (ID No. 20181ECE0233), Mr. Kanala Sadhik (ID No. 20181ECE0234), Mr. K Vijay (ID No. 20181ECE0231), Mr.Galam Gurusreedhar (ID No. 20181ECE0198) and Mr. Dusthakar Rahul (ID No.20181ECE0190) who are bonafide students of VIII Semester B.Tech , Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency, University, Bengaluru, during the year 2021-2022.

Mr. Kiran Kale

Supervisor & Assistant professor

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

B.Tech Electronics and Communication Engineering/June 2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "BRAIN CONTROLLED 3D PRINTED PROSTHETIC ARM" was carried out by Mr. CHINNALA UDAY KUMAR (ID No. 20181ECE0174), Ms. YOGASHREE R S (ID No. 20181ECE0127), Ms. AKSANI KAVYASRI (ID No. 20181ECE0132), Ms. GAVINI BHARGAVI (ID No. 20181ECE0206), and Ms. NEHA SINGH (ID No. 20181ECE0072) who're bonafide college students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. DIVY ARANI M S

Supervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

REGISTRAR Registrar

Paucher/6/2.

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "TRAFFIC VIOLATION DETECTION USING VAE NEURAL NETWORKS" was carried out by Mr. NAGA MAHENDRA REDDY (ID No. 20181ECE0292), Mr. VENNAPUSA CHANDRA KANTH REDDY (ID No. 20181ECE0372), Mr. NAGASWARAM VINODH (ID No.20181ECE0295), Mr. NAGASWARAM VINAY (ID No.20181ECE0294) and Mr. NAGASWARAM SURESH (ID No. 20181ECE0293) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022...

Mrs. KEHKESHAN JALALL S

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Examiner-1

Rouel 20/6/22 Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

(Private University established in Karnataka State by Act No. 41 of 2013) Itgalpur, Rajanakunte, Yelahanka, Bengaluru - 560064 Website: www.presidencyuniversity.in

June, 2022 PRESIDENCY UNIVERSITY

Bengaluru

Department of Electronics and Communication Engineering



Certificate.

This is to certify that the University Project (PIP 102) work entitled "TRANSGAN: **IMAGE** ADVERSIAL NETWORK FOR TRANSFORMER-GENERATIVE SUPERRESOLUTION " was carried out by Ms. GUDDENNAGARI SUSHMITHA (ID No. 20181ECE0213), Ms. K DURGA (ID No. 20181ECE0227), Mr. KAPPARAPU VENKATA AJITH KUMAR REDDY (ID No.20181ECE0235), Mr. KATAKAM Mr. VARAGANTI MOHAN SAI HEMANTH KUMAR (ID No.20181ECE0240) and (ID No. 20181ECE0368) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022. .

Assistant Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and

Communication Engineering

REGISTRAR

Bengaluru, Karnataka.

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "BATTERY MONITORING SYSTEM FOR ELECTRIC VEHICLES" was carried out by Mr. Attar Zameer (ID No. 20181ECE0145), Mr. Lakkakula Ravikumar (ID No. 20181ECE0263), Mr. Makkala Yashovardhan (ID No.20181ECE0276) and Mr. Reddy Mohammad Sohail (ID No. 20181ECE0333) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Sreenivasappa & V
Supervisor & Professor
Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "WET AND DRY WASTE SEGREGATION" was carried out by Mr. MANOJ H.V (ID No.20181ECE0061),. Ms. NANDITHA.P (ID No. 20181ECE0071), Ms. NIKITHA.N (ID No. 20181ECE0075), Mr. NITHIN.N (ID No. 20181ECE0076) and Mr. SKANDH MUTHANNA M.S (ID No. 20181ECE0111) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021 [2022.

1.1

Mrs. DIANA STEFFI D.D

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

06/2022

15/06/2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "IOT BASED HOME AUTOMATION AND SECURITY SYSTEM WITH WEB DASHBOARD" was carried out by Mr. Bharat Krishnan (ID No. 20181ECE0016), Mr. Abhilash Kumar A (ID No. 20181ECE0003), Mr. Kishan S (ID No. 20181ECE0048), Ms. Gowri Krishnaveni (ID No. 20181ECE0034) and Ms. Sahana Singh S (ID No. 20181ECE0102) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Ashwini B

A 10/16/2022

Supervisor and Assistant Professor

Department of

Dr. Rajiv Ranjan Singh Professor and Head

Department of

Examiner-1

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "IOT BASED HOME AUTOMATION AND SECURITY SYSTEM WITH WEB DASHBOARD" was carried out by Mr. Bharat Krishnan (ID No. 20181ECE0016), Mr. Abhilash Kumar A (ID No. 20181ECE0003), Mr. Kishan S (ID No. 20181ECE0048), Ms. Gowri Krishnaveni (ID No. 20181ECE0034) and Ms. Sahana Singh S (ID No. 20181ECE0102) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor and Assistant Professor Department of

Dr. Rajiv Ranjan Singh Professor and Head

Department of

Examiner-1

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Segmentation of Cetaceans and Animalia from Underwater Images" was carried out by Ms. GANGIREDDY NIKITHA (ID No. 20181ECE0202), Mr. KOLAKALA GANGIREDDY (ID No. 20181ECE0245), Mr. OBI CHETHAN REDDY (ID No. 20181ECE0306), Mr. G NEELANTH REDDY 20181ECE0400) and Ms. PUSHPANJALI ACHUTHAN (ID No. 20181ECE0090) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Tirumala Vasu G

Dr. Rajiv Ranjan Singh

Supervisor & Assisstant Professor

Department of Electronics and Communication Engineering

Professor & Head

Department of Electronics and Communication Engineering

REGISTRAR

Examiner-1

5/18/6/22 Examiner-2

Bengaluru, Karnataka

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "GPS BASED SURVEILLANCE AND OBSTACLE DETECTION USING AUTONOMOUS VEHICLE" was carried out by Mr. Vijay Kumar P (ID No. 20181ECE0310), Mr. Pradeep V (ID No. 20181ECE0320), Mr. Prashanth P (ID No. 20181ECE0323) and Ms. Pravalleeka N (ID No. 20181ECE0324) who are Bonafede students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Tony Ally Varkey M

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

REGISTRAR

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "FOOD QUALITY DETECTION AND MONITORING SYSTEM" was carried out by Ms. L MADHAVI (ID no.20181ECE0052), Ms. CHANDANA G S (ID no.20181ECE0021), Ms. PATHAKUNTA MOOLAMMA (ID no. 20181ECE0314), Mr. PANYAM SHAIK FAYAZ (ID no. 20181ECE0312) and Mr. NALLANI SAITEJA (ID no. 20181ECE0298) who are bonefied students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Stb 18/06/2022 Mr. SYED ABRAR AHMED

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1 2006

Examiner-2

REGISTRAR

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SMART PARKING USING EMBEDDED AI PROCESSOR" was carried out by Mr. Dinesh Kumar. G(ID No. 20181ECE0195). Mr. Dinesh Kumar Reddy. P (ID No.20181ECE0316), Mr. Vara Prasad (ID No.20181ECE0363), Mr. Vijay Kumar Reddy (ID No. 20181ECE0317) and Mr. Sunil. N (ID No. 20181ECE0296) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Akshatha .k

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

REGISTRAR Registrar

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Vehicle to Vehicle Communication using Light Fidelity" was carried out by Mr.MAGESH K (ID No. 20181ECE9004), MR. NANDA KUMAR (ID No.20181ECE9005), MR. RUCHITH GURURAJ (ID No.20181ECE0098), MS.SRI SAI CHANDANA (ID No.20181ECE0113) and MS.SHALINI S (ID No.20181ECE0105) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022

Mrs. Annapurna H.S

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh
Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Evaminer '

REGISTRAR Registrar

Bengaluru

Department of Electronics and Communication Engineering



This is to certify that the University Project (PIP 102) work entitled "AUTOMATIC MOVABLE ROAD DIVIDER TO AVOID TRAFFIC PROBLEMS BASED ONINTERNET OF THINGS(IOT)" was carried out by Mr. REVANTH REDDY K(ID No.20181ECE0252), Mr. SARATH KUMAR L(ID No. 20181ECE0266), Mr. MUKESH MEENAN C (ID No.20181ECE0287), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-203/2.

Dr. Sayyed Faizan Ali

Dr. Rajiv Ranjan Singh

Assistant Professor

Professor & Head

Department of Electronics and Communication

Department of Electronics and

Engineering

Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SMART FARMING USING IOT" was carried out by Mr.M.V.N.VIGNESWAR(ID No.20181ECE0279),Mr.M.HARINATHREDDY(IDNo.20181ECE0278),Mr.M.JAYAVARD HAN(IDNo.20181ECE0285).Mr.M.AKHILESHWAR(IDNo.20181ECE0278),Ms.A.LAVA NYA(IDNo.20181ECE0138) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs.Pallabi K.

Pallali Waleti

Supervisor & Assistant Proffesor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

Head of the Department

School of Engineering
PRESIDENCY UNIVERSITY

Rajanukunte, Yelahanka, Bengaluru 😽

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "THE APPLICATION OF SWARM ROBOTICS TO DESIGN AND IMPLEMENT ROBOTS" was carried out by Mr. Nichenametla Ashok (ID No. 20181ECE0303), Mr. Prajwal P (ID No. 20181ECE0322), Mx. Mr. P Kamalnath (ID No. 20181ECE0307), Mr. Srihari babu Somavarapu (ID No. 20181ECE0349) and Mr. Pilligundla Nagarajappa Bhanu Prakash (ID No. 20181ECE0315) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. K. Rafeed Ahmed Supervisor & Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "AUTOMATIC ACCIDENT DETECTION AND HUMAN RESCUE SYSTEM" was carried out by Mr.Chakka Sai Teja (ID No.20181ECE0164), Mr.Bommireddy Mahidhar Reddy(ID No. 20181ECE0156), Mr.Bukkasamudram Hemanth Reddy (ID No.20181ECE0160), Mr.Ambati Sai Kumar Reddy(ID No. 20181ECE0139) and Mr.Batchali Bheemasai (ID No. 20181ECE0152) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs.Anupama Sindgi

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Head of the Department ectronics and Communication Engineering School of Engineering

PRESIDENCY UNIVERSITY mukunte, Yelaha Malusengalung 64

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CERTIFICATE

This is to certify that the University Project (PIP 102) work entitled "FEATURE ECTRACTION FOR TRAFFIC SIGN DETECTION AND RECOGNITION" was carried out by Ms. NIBA FATHIMA P (ID No. 20181ECE0073), Ms. SHRIYA S KUMAR (ID No. 20181ECE0109), Ms. DISHA DECHAMMA (ID No. 20181ECE9008), Ms. SUSHMITHA (ID No. 20181ECE0121) and Ms. VAISHNAVI APPACHA A (ID No. 20181ECE0123) who are Bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. G SWETHA

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1 186/22

Examiner-2 1. Charles 18/06/22

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "NEURAL NETWORK BASED COURSE RECOMMENDATION SYSTEM UNDER FULLY FLEXIBLE CREDIT SYSTEM" was carried out by Mr. Deepak B Salagare (ID No. 20181ECE0402), Ms. Bhoomika B (ID No. 20181ECE0393), Mr. Palasani Vishnuvardhan Reddy (ID No. 20181ECE0309), and Ms. Shwetha Bhavikatti (ID No. 20181ECE0353) and who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Ramzan Basheer

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Professor & Head Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Examiner-1 K. Rhe 16

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "BRAIN TUMOR DETECTION USING IMAGE FUSION TECHNIQUES" was carried out by Mr. Y.Bhanu Nagendra Sandeep (ID No.20181ECE0418), Mr. T.Nikhil Reddy (ID No.20181ECE0361), Ms. Vallepu Bhavya Sai (ID No.20181ECE0366), Ms. Yadavalli Samhitha (ID No.20181ECE0379) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Maitraiyee Konar

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Head of the Department

School of Engineering

PRESIDENCY UNIVERSITY

Rajanukunte, Yelahanka, Bengaluru -64

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "ACCIDENT DETECTION AND ENVIRONMENT MONITORING DEVICE FOR FISHERMAN BOAT" was carried out by Ms. Komal Kumari Nagar (ID No. 20181ECE0049), Ms. Godavari Vithoba Siddi (ID No. 20181ECE0033) and Mr. Chethan L (ID No.20181ECE0023), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the years 2021-2022.

16-06-2 Dr. Sumantra Chaudhuri

& Chandhuri

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of

Electronics and

Communication

Engineering

Fxaminer-1

Examiner-2

ZARH

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "OPENCV-BASED HOME SECURITY CAMERA WITH MOTION DETECTION AND FACE RECOGNITION" was carried out by Mr. Sree Sankaran C (ID No. 20181ECE0395), Mr. Shaik Mohammed Muheet (ID No. 20181ECE0345), Mr Yashraj(ID No. 20181ECE0383), Mr Jejoy M Joseph(ID No. 20181ECE9001) and Mr. Siddique Izhan (ID No. 20181ECE0065) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms.Natya S

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SECURED EVM USING BIOMETRIC WITH UNIQUE ID AND IOT" was carried out by Mr. ABHILASH N (ID No. 20181ECE0004), Mr. AKASH DR (ID No. 20181ECE0010), Mr. ARUN R (ID No. 20181ECE0012), Mr. TEJA VARDHAN (ID No. 20181ECE0015) and Mr. LUKKA PAVAN NAGASAI (ID No. 20181ECE9003) who are bonafide students of VIII Semester B. Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. ASHUTOSH ANAND

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

Time Parking Monitoring & Automatic Billing" was carried out by Mr. N C Likith Reddy (ID No. 20181ECE0069), Mr. Abdul Aftaab Ahamed Sheik (ID No. 20181ECE0130), Mr. G Yashwanth Reddy (ID No. 20181ECE0218), Mr. Sai Kumar Pamarthi (ID No. 20181ECE0338) and Mr. Thalla Mithilesh (ID No. 20181ECE0357) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Arvind Kumar

Supervisor & Assistant Professor
Department of Electronics and
Communication Engineering

Examiner-1

Fyaminer-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

REGISTRAR REGISTRAT

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certify that the University Project (PIP 102) work entitled "REAL TIME TRACKING AND ALERT SYSTEM FOR LAPTOP THROUGH IMPLEMENTATION OF GPS, GSM, MOTION SENSOR FOR ANTI THEFT PURPOSES" was carried out by S. POOJITH KUMAR (ID No. 20181ECE0340), N. VIJAY KUMAR REDDY (ID No. 20181ECE0305), S. NAGA VAMSI (ID No.20181ECE0336), G. DINESH (ID No. 20181ECE0217) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs. AMRUTHA V NAIR

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering DR. RAJIV RANJAN SINGH

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

ner-2 Samuentije

REGISTRAR Registrar

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "DESIGN AND IMPLEMENTATION OF AN ADVANCED SECURITY SYSTEM-INVISIBLE EYE" was carried out by A. Navaneesh Kumar Reddy (IDNo. 20181ECE0131), S. Sreekanth (IDNo.20181ECE0378), N. Karthik (IDNo.20181ECE0302), E. Sudheer (IDNo.20181ECE0194) and S. Vikas Reddy (IDNo.20181ECE0337) who are Bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022. 2

Soronye C.S. Ms. Sowmva CS

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

Examiner-2 Manasairi P

REGISTRAR

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project – II work entitled "UNDERWATER COMMUNICATION USING LASER" was carried out by Ms.Annapoorna R

(IDNo.20191LEC0013), Ms.Chaithra M (IDNo.20191LEC0007) and Ms.Meghana S (IDNo.20191LEC0012), Mr.Tarun R (IDNo.20191LEC0014).who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice – II of Bachelor of

Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr.Rajiv Ranjan Singh

Professor & Head Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "WEATHER MONITORING SYSTEM USING IOT" was carried out by Mr. Deekshith D (ID No. 20181ECE0024), Mr. Elwin Joshua (ID No. 20181ECE0029), Mr. Karthik R (ID No. 20181ECE0045) and Mr. Kushal S (ID No. 20181ECE0051) who are Bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Nawaz Shafi

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1 SAB

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SMART MUSIC PLAYER INTEGRATING FACIAL EMOTION RECOGNITION AND MUSIC MOOD RECOMMENDATION" was carried out by Ms. G Aditi Naidu (ID No. 20181ECE0032), Ms. Jeevitha S Rao (ID No. 20181ECE0043), Ms. Chaithanya S (ID No.20181ECE0019), Ms. Likhitha M (ID No.20181ECE0054), Mr. Katragadda Yaswanth Sai (ID No.20181ECE0241), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Professor

Department of Electronics and Communication Engineering

Dr Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication

Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "AN IOT APPROACH TOWARDS THE DEVELOPMENT OF SMART HIGHWAYS" was carried out by Mr. K Revanth Kumar (ID NO. 20181ECE0416), MR.N Thanesh Reddy (ID No.20181ECE0299), Mr. Dinesh Ketani(ID No. 20181ECE9014), and Mr. Lokeshwaran(ID No. 20181ECE0267) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency

Dr. Pritham Keshari Sahoo Supervisor & Asst. Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2 Anypara Stac

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Head of the Department

Bedronics and Communication Engineering

School of Engineering

PRESIDENCY UNIVERSITY

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REGISTRAR

Rajenukunte, Yelahanka, Bengaluru -64

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "AQUACULTURE FOR FISHERIES USING IOT" was carried out by Mr. Kore Akhil Kumar(ID No. 20181ECE0250), Mr. Mekala Amarnath(ID No. 20181ECE0284), Mr. Munagali Sumanth Naidu (ID No. 20181ECE0290), and Mr. Setty Reddy Vikesh (ID No. 20181ECE0343) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs. Anusha R

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head
Department of Electronics and
Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Two wheeled self balancing bot using Linear Quadratic Regulator" was carried out by Mr. MOHAMMED ADNAN (ID No. 20181ECE9020), Mr. SHAFIM FAISAL REHMAN KHAN (ID No20181ECE0104), Mr.MOHAMMED FARHAN KALEEM (ID No. 20181ECE0064), Mr. AKULA SAI TEJA REDDY (ID No. 20181ECE0133) and Mr.ABHILASH R KULKARNI (ID No. 20181ECE9019) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs .Renuka Bhagwat

Dr. Rajiv Ranjan Singh

Supervisor & Assistant Professor

Professor & Head

Department of Electronics and Communication Engineering Department of Electronics and Communication Engineering

Examiner-1

Dr. Joseph Antony Prathap

116/22

Examiner-2

Dr.K Rafeeg Ahamed

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "HEART ATTACK PREDICTION USING MACHINE LEARNING" was carried out by Ms. SPOORTHI S (ID No. 20181ECE0112), Ms. SAMYUKTHAA M (ID No.20181ECE0269), Mr. KOTU VASUDEV (ID No. 20181ECE0255), Mr. RAMA KRISHNA KOMMINENI (ID No. 20181ECE0246) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. SRILAKSHMI K H

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

REGISTRAR

Bengaluru

Department of Electronics and Communication Engineering



This is to certify that the University Project (PIP 102) work entitled "Sand-Dust Image Enhancement and Infrared Strip-Noise Removal using Anisotropic Guided Filter" was carried out by Ms. RADHA SHARMA (ID No. 20181ECE0092), Mr. VARANASI SREEKANTH (ID No. 20181ECE0369), Mr. BALA VENKATESHWARLU (ID No. 20181ECE0238), Mr. TEJESWAR REDDY (ID No. 20181ECE0232) and Mr. NITISH REDDY (ID No. 20181ECE0035) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Tirumala Vasu G

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

18/6/22

AL181 6 122

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SOLDIER HEALTH MONITORING AND TRACKING SYSTEM USING INTERNET OF THINGS(IOT)" was carried out by Mr. Shashank R(ID No.20191LEC0010), Miss. Divyashree S(ID No. 20181ECE0186), Mr. Golla Pramod Kumar(ID No. 20181ECE0209), Mr. Bharath Manohara M (ID No.20181ECE9015) and Mr. Narendra Reddy G (ID No20181ECE0221) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr.Josept Anthony Prathap

ZARTI

Supervisor & Associate Professor

Department of Electronics and

Communication Engineering

Examiner-1

Fxaminer-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

REGISTRAR

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "COLOUR IMAGE ENHANCEMENT" was carried out by MS.MOKSHITHA.K (ID No. 20181ECE0254), Ms. NOORAIN SADAF (ID No. 20181ECE0078), Mr. NIKHILBALGANOOR(IDNo.20181ECE0074), Mr. HARISH. S(ID-

No.20181ECE0038) and Mr. SRIKANTH.M (ID No. 20181ECE0114) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr FIRUMALA VASU

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

REGISTRAR

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "IOT BASED SMART AND ADAPTIVE LIGHTING SYSTEM" was carried out by Mr. B Vivekananda Reddy(ID No. 20181ECE0147), Mr. B Nanda Kumar Reddy (ID No. 20181ECE0158), Mr. B Rajendra Reddy (ID No. 20181ECE0161), Mr. B.Tharun Kumar Reddy (ID No. 20181ECE0150) and Mr. (ID No. A Lakshmi Saketh Reddy) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Rakesh Chowdhury

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Examiner-1 K. RA

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP102) work entitled "Performance Analysis of Indian Regional Navigation Satellite System" was carried out by Mr. MAHENDRA.M (ID No. 20181ECE0060), Mr. DASARI SAI VINAY (ID No.20181ECE0183) Mr. RAKSHITH J T (ID No. 20181ECE0095) who are bonafide students of VIII Semester B.Tech, Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Manasminif

Ms. Manaswini R Supervisor & Assistant professor Department of Electronics and Communication Engineering

Examiner-

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP102) work entitled "IoT Mining Tracking and Worker Safety Helmet" was carried out by Mr. DUDDHELA GIRISH (ID No. 20181ECE0187), Mr. TANGUTURU SAI SUKESH (ID No. 20181ECE0356), Mr. VENKATESH SURESH PARTHANALLI (ID No. 20191LEC0004) who are bonafide students of VIII Semester B.Tech, Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs. Aruna D

Supervisor & Assistant professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-2

Examiner-1

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP102) work entitled "3D PRINTED PROSTHETIC ARM USING EMG CONTROL" was carried out by Mr. MANOJ KUMAR REDDY (ID No. 20181ECE0386), Ms. VINUKONDA NIKHITHA (ID No. 20181ECE0376), Ms. SAYED FAKRUNNISHA (ID No. 20181ECE0407) and Ms. SHWETA S HIREMATH (ID No. 20191LEC000S) Mr. SUMIT KHATRI (ID No. 20181LEC0003) who are bonafide students of VIII Semester B.Tech, Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022,

Mrs. DivyaRani M S

Supervisor & Assistant professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

REGISTRAR Registrar

BANGALORE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the University Project (PIP 102) work entitled "STUDY ON SCADA" was carried out by Mr. Harshith A (ID No. 20191LEC0006), Ms. Yashaswini N D (ID No. 20181ECE0382) and Mr. Manu C(ID No. 20181ECE0062) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Nawaz Shafi

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Implementing Routing Using Open Shortest Path First Routing Protocol" was carried out by Mr.Harshit Nahar who is a bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Nawaž Shafi
Supervisor & Assistant Professor

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Event Management System" was carried out by Mr. Prajwal B J who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Pallabi Kakati

Pallali lakali

Assistant Professor Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh
Professor & Head
Department of Electronics and

Communication Engineering

REGISTRAR Registrar

June, 2022 PRESIDENCY UNIVERSITY

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Employee leave Management System" was carried out by Mr. Pavan P (ID No. 2181ECE0082) whois a bonafide student of VIII Semester B.Tech. Electronics and CommunicationEngineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Pallabi Kakati

Pallabi Kaheti

Supervisor & Assistant Professor
Department of Electronics and
Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head
Department of Electronics and
Communication Engineering

June, 2022 PRESIDENCY UNIVERSITY

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Employee leave Management System" was carried out by Mr. Rohit R Achanur (ID No. 2181ECE0097) who is a bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Pallalii lakati

Ms. Pallabi Kakati
Supervisor & Assistant Professor
Department of Electronics and
Communication Engineering

Dr. Rajiv Ranjan Singh
Professor & Head
Department of Electronics and
Communication Engineering

REGISTRAR (Registrar)

Bengaluru

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the University Project(PIP 102) work entitled "Training Management System" was carried out by Ms. Rakshitha A R(ID No.20181ECE0096) who is Bonafide student of 8th Semester B. tech Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022

C. fairan Ali Dr. Sayyed Faizan Ali Assistant Professor

Department of Electronics _

And Communication

Dr.Rajiv Ranjan Professor & Head

Department of Electronics

and Communication

June, 2022 PRESIDENCY UNIVERSITY

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Employee leave Management System" was carried out by Ms. Preethi S Sarangamath (ID No. 2181ECE0088) who is a bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Pallabi Kakati

Palali rachate

Supervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh Professor & Head Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SMART SHOPPING CART SYSTEM USING RFID AS IOT APPLICATION" was carried out by Allareddy Sashank reddy (ID No. 20181ECE0136), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranján Singh

Professor & Head

Department of Electronics and Communication Engineering

BENGALURU

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "ONLINE PET SHOP" was carried out by MR. DHAREPPA BISTAGOND (ID No. 20181ECE0027) who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

MS. SOWMYA C S

Supervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1:

Examiner-2:

20622.

Bengaluru

Department of Electronics and Communication

Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Conducting Building Audits to implement IOT and Automation for a Smart Sustainable Campus" was carried out by Mr. Vignesh Babu R.V (ID No.20181ECE0374), who is a Bonafede student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Sowmya C.S

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

REGISTRAR

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Project (PIP 102) work entitled "SECURING CLOUD COMPUTING USING CRYPTOGRAPHY" was carried out by Gutha Sivasai Naidu (ID No. 20181ECE0220), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and **Communication Engineering**

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "AGRICULTURE PORTAL" was carried out by CHINNIREDDYGARI SRIPATHI (ID No. 20181ECE0175), and CHINTALAPUDI GOPI KRISHNA (ID No. 20181ECE0176), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs MANASA R

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1

Soromy C.S. 06 2022

Examiner-2

18/6/22

Raboth

REGISTRAR Registrar

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "WEB DEVELOPMENT" was carried out by P. RAGHU VARDHAN (ID No. 20181ECE0328) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. ARUNA M

Supervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head
Department of Electronics and
Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "IOT Based Distancing & Monitoring Robot For Queue" was carried out by S.PURUSHOTHAM (ID No. 20181ECE0389) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and

Communication Engineering

Examiner-1

REGISTRAR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SCHOOL OF ENGINEERING

PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certify that the Internship Report "IT INFRASTRUCTURE AND BASIC OF NETWORKING" being submitted by "SAI KIRAN R PASTAY" bearing roll number(s):20181ECE9009, in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics and Communication Engineering is a Bonafide work carried out under my supervision.

Ms. Sowmya . C. S

Associate Professor-ECE

Department of ECE

Presidency University

Mr. Mahesh Linganna

PIP-II (Internship Coordinator)

IT Engineer

Presidency University

Mr. Rajiv Ranjan

HOD OF ECE

Presidency

University

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "AGRICULTURE PORTAL" was carried out by Mr. D RAKESH (ID No. 20181ECE0181) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor

Manaswini R 18/6/2

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1 Manashini f 18/6/22.

Examiner-2 Manashini f 22.

REGISTRAR

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "EXIM OPERATIONS USING RPA" was carried out by R. NANDA KISHORE REDDY (ID No. 20181ECE0329), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. NAWAZ SHAFI

Supervisor & Assistant Professor
Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and

Communication Engineering

REGISTRAR REGISTRAN REGISTRAN

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SCHOOL OF ENGINEERING

PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certify that the Project report "EXPLORATORY DATA ANALYSIS" being submitted by "YELLASOM SAMARSIMHAREDDY" bearing roll number: 20181ECE0385, in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronic and communication Engineering is a bonafide work carried out under my supervision.

Ms. Aruna Bore

Supervisor & Professor

Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of electronics and communication engineering

Examiner-1

Manasminis

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the university Internship (PIP 102) work entitled "INDIAN AGRICULTURE WEBSITE" was carried out by Mr. KURAPATI PAVAN KUMAR (ID No. 20181ECE0259) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Manaswini R 1862

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1 Manasurin ? | 22

Examiner-2 Manasurin ? | 22

Dr. Rajiv Ranjan Singh

Bring L

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Internship (PIP 102) work entitled "INDIAN AGRICULTURE WEBSITE" was carried out by Mr. GUTTY VINAY KUMAR (ID No. 20181ECE0222) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Manaswini R 18 6/22.

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1 Manasuini? 186/22.

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "WEB DEVELOPMENT" was carried out by P. CHENNA KESAVA (ID No. 20181ECE0325) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor
Department of Electronics and
Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the INTERNSHIP (PIP 102) work entitled "DIABETES PREDICTION SYSTEM" at TECHNOOK was carried out by Mr. B.VEERA RAVINDRA REDDY(20181ECE0151) who are bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs. Krana M

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship (PIP102) work entitled "DIABETES PREDICTION SYSTEM" was carried out at TeachNook by Mr. SRINIVAS GOWDA K N (ID No. 20191LEC0015) who are bonafide student of VIII Semester B.Tech., Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Kiran Kale

Supervisor & Assistant professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering



Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Project (PIP 102) work entitled "EXPLORATORY DATA ANALYSIS" was carried out by Mr. Simhadri Venkata Sai Krishna (ID No.20181ECE0346) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Aruna M

Supervisor & Asst Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SECURING CLOUD COMPUTING USING CRYPTOGRAPHY" was carried out by G.S GOUSE BASHA(ID No. 20181ECE0211), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Arvind kumar

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering

Fyaminer-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SCHOOL OF ENGINEERING

PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certify that the Project report "IOT Based Social Distancing & Monitoring Robot For Queue" being submitted by "KONUDULA

PADMAVATHI" 20181ECE0249, in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics And Communication Engineering is a bonafide work carried out under my supervision.

Dr. RAJI

RANJAN SINGH

Head Of Department of

ECE

Presidency University

Mr. KIRAN KALE

Asst prof ECE

Presidency

University

Examiner 2:-



Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Project (PIP 102) work entitled "EXPLORATORY DATA ANALYSIS" was carried out by Mr. Polu Nithish Reddy (ID No.20181ECE0319) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Kiran Kale

Supervisor & Asst Professor Department of Electronics and Communication Engineering Mrs. Aruna M

Co-ordinator
Department of Electronics and
Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head
Department of Electronics and
Communication Engineering

Framiner-

A Toler

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Intrenship Project (PIP 102) work entitled "AUTOMATED CONVEYOR TRACKING(FOR PROJECT COUNTER)" was carried out by Ms. CHAITHRA V (ID No. 20181ECE0020) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. ARVIND KUMAR

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering

Fyaminer-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "HTML DEVELOPMENT" was Carried out by Mr. SHANKAR M SHIVAMATTA (Id No. 20191LEC0016) who are Bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

20/06/2022

Mr, KIRAN KALE

Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2



Certificate

This is to certify that the University Project (PIP 102) work entitled "HTML DEVELOPMENT" was Carried out by Dr. KIRAN KUMAR N D (Id No. 20191LEC0009) who are Bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. PRITAM KESHARI SAHOO

Assistant Professor

Department of Electronics and

Communication Engineering

DR. RAJIV RANJAN SINGH

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certified that the Project report "HYBRID ELECTRIC VEHICLES IN TEACHNOOK" being submitted by "GANGIREDDY GARI PAVAN KUMAR REDDY" bering roll number 20181ECE0203 in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics and Communications Engineering is a bonafide work carried out under my supervision.

Dr. Pritam Keshari Sahoo

Supervisor & Assistant Professor

Department of Electronics and Communication

Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Monary 6/22

PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certified that the Project report "HYBRID ELECTRIC VEHICLES IN TEACHNOOK" being submitted by "RAICHUR SALEEM BASHA" bering roll number 20181ECE0330 in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics and Communications Engineering is a bonafide work carried out under my supervision.

Dr. Pritam Keshari Sahoo

Supervisor & Assistant Professor

Department of Electronics and Communication

Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

REGISTRAR

PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certified that the Project report "HYBRID ELECTRIC VEHICLES IN TEACHNOOK" being submitted by "KURUBA SAIVENKAT" bering roll number 20181ECE0261 in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics and Communications Engineering is a bonafide work carried out under my supervision.

Dr. Pritam Keshari Sahoo

Supervisor & Assistant Professor

Department of Electronics and Communication

Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and

Communication Engineering

PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certified that the Project report "HYBRID ELECTRIC VEHICLES IN TEACHNOOK" being submitted by "VINUKONDA CHARANTEJA" bering roll number 20181ECE0375 in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics and Communications Engineering is a bonafide work carried out under my supervision.

Dr. Pritam Keshari Sahoo

Supervisor & Assistant Professor

Department of Electronics and Communication

Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SECURITY ANALYST TRAINING" was carried out by Mr. Yuvaraj Gowda B V(ID No. 20181ECE0128), who is a bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Arvind Kumar

Supervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Program (PIP 102) work entitled "DATA ACQUISITION MONITORING SYSTEMS" was carried out by Mr. Hemanth R (ID No. 20181ECE0041), Mr. Fazahath Hussain D (ID No. 20181ECE0031) and Mr.B D Sai Sandeep (ID No. 20181ECE0014), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Rakesh Chowdhury

Supervisor & Assistant Professor
Department of Electronics and
Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

REGISTRAR Registrar Page 2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "DATA SCIENCE IN AGRICULTURE" was carried out by Mr. TANGUTURU HEMANTH (ID No. 20181ECE0355), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Rakesh Chowdhary

Dr. Rajiv Ranjan Singh

Supervisor & AssistantProfessor

Professor & Head

Department of Electronics and Communication Engineering

Department of Electronics and Communication Engineering

Examiner-1

B, Tech Electronics and Communication Engineering / June, 2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work titled "Online Movie Ticket Booking System" was carried out by Mr. D V SAMRUTH GUPTHA (ID No. 20181ECE0182) who are bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Rakesh chowdhary

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "VLSI Design Verification" was carried out by Mr. Syed Rayees Daanish (ID No. 20181ECE0354) who is a bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Arvind Kumar

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship (PIP 102) work entitled "CONTROL PANELS AND PROGRAMMABLE LOGIC CIRCUITS" was carried out by Mr. Sujan Mandana CS (ID No.20181ECE0392), who is a bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Ashutosh Anand

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Examiner-1

Framiner-2

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

REGISTRAR (Registrar)

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Project (PIP 102) work entitled "EXPLORATORY DATA ANALYSIS" was carried out by Mr. Pullela Bhargav (ID No.20181ECE0327) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Ashutosh Anand

Supervisor & Asst Professor Department of Electronics and

Communication Engineering

Examiner-1

xaminer-2

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

REGISTRAR Registran Registran

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship (PIP102) work entitled "ELECTRONICS DEVICES" was carried out at BEL by Mr. NIKHIL M (ID No. 20181ECE9012) who are bonafide students of VIII Semester B.Tech., Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Shwetha M

Supervisor & Assistant professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship (PIP102) work entitled "ELECTRONICS DEVICES" was carried out at BEL by Mr. MAHADEVAPRASAD S (ID No. 20191LEC0018) who are bonafide students of VIII Semester B.Tech., Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Shwetha M

Supervisor & Assistant professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Presidency University

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the internship project (PIP 102) work entitled "Online Pizza Ordering System" was carried out by Ms. Devangam Sai Bruhati (ID No.20181ECE0184), who is bonafide student of 8th semester B.Tech. Electronics and Communication engineering in Presidency University. This is in partial fulfillment of the course work in place of professional practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Sumantra Chaudhuri

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering

Examiner-1

Fyaminer-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SCHOOL OF ENGINEERING

PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certified that the Project report "FLIGHT RESERVATION SYSTEM" being submitted by "VUNDELA SAI RAKESH REDDY" bearing roll number(s): 20181ECE0411, in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics and communication Engineering is a bonafide work carried out under my supervision.

J. Chardhure 21-06-2022

Dr. SUMANTRA CHAUDHURI

Asst.Professor Department of ECE Presidency University

Examiner-1

Examiner-2

Dr. RAJIV RAJAN SINGH

Professor & Head Department of ECE PresidencyUniversity

REGISTRAR Registrar

DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**

SCHOOL OF ENGINEERING



PRESIDENCY UNIVERSITY

CERTIFICATE

This is to certify that the University Project (PIP 102) work entitled "STUDY ON MANUFACTURING AND ASSEMBLY OF SOLAR PHOTOVOLTAIC" was carried out by Mr. ROHESH KUMAR B.M. (ID No. 20181ECE9018), Ms. EKTHA R (ID No. 20181ECE0028) and Ms. SHALINI V (ID No. 20181ECE0106) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

A Charles.

Dr. Sumantra Chaudhuri

Supervisor & Asst Professor Department of Electronics and **Communication Engineering**

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and **Communication Engineering**

Examiner-1 SAb 18/06/2022

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Program (PIP 102) work entitled "ENCRYPTOR" was carried out by Mr. Hemanth Kumar S (ID No. 20181ECE0040) and Mr. J Abhishek (ID No. 20181ECE0042), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Nawaz Shafi

Supervisor & Assistant Professor
Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

REGISTRAR Registrar Page 2

B Tech. Electronics and Communication Engineering / June, 2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "WIPRO INTENSHIP CAPSTONE PROJECT" was carried out by M.GURUNATH (ID No:20181ECE0268) who are bonafide students of VIII Semester B. Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Nawaz Shafi

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

REGISTRAR

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the internship (PIP 102) work entitled "STOCK PORTFOLIO MANAGEMENT" was carried out by Mr. Suhas S R (ID No. 20181ECE0117) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Nawaz Shafi

Assistant Professor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Capgemini Internship (Online Shopping A, Book Renatl A)" was carried out by Tupakula Shabana (ID No. 20181ECE0362) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Ashwini B

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1 Amogn

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "DIGITAL MEDIA ANALYST INTERN" was carried out by Mr. SRISHU Y S (20181ECE0115) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Aruna

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Program (PIP102) work entitled "Training Management System" was carried out by Mr. DINAKAR GP (ID No. 20191LEC0001) who are bonafide student of VIII Semester B.Tech., Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Sayyed Faizan Ali

Supervisor & Assistant professor

S. Fairan Ali

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "DESIGN FOR TESTABILITY" was carried out by Mr. Abhignan S V (ID No. 20181ECE0002), Ms. Athira V Nath (ID No. 20181ECE0013), Mr. Harshith K (ID No. 20181ECE0039), Mr. Koushik S (ID No. 20181ECE0050) and Mr. Mohammed Waseem Waris (ID No. 20181ECE0066) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Joseph Anthony Prathap

Supervisor & Associate Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Intership (PIP 102) work entitled "TRAINING IN DESIGN FOR TESTABILITY DOMAIN" was carried out by Mr. Ch Bhargav Naidu (ID No. 20181ECE0179), Mr. Chittoor Abhishek (ID No. 20181ECE0180), who are bonafide students of VIII Semester B.Tech. in Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Maitraiyee Konar

Supervisor & Assistance Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Intership (PIP 102) work entitled "TRAINING IN VLSI DFT DOMAIN" was carried out by Ms. GOLI MANOGNA (ID No. 20181ECE0207), who is bonafide student of VIII Semester B.Tech. in Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Maitraivee Konar

Supervisor & Assistance Professor

Department of Electronics and

Communication-Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Head of the Department

Electronics and Communication Engineering

School of Engineering

PRESIDENCY UNIVERSITY
Rajanukunte, Yelahanka, Bengaluru -64



Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "DFT in VLSI" was carried out by K. Gowtham Sai (ID No. 20181ECE0228), K.O. Sreekar Koundinya (ID No. 20181ECE0236), K. Sai Prudhvi Raj (ID No. 20181ECE0237), and L. Chandu Harsha (ID No. 20181ECE0265) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering Examiner-1 Annaguena. HS Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Examiner-2

REGISTRAR

Bengaluru

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the University Project (PIP 102) work entitled "DFT BASICS" is original work carried out by Mr. Murala Siva Rama Krishna (20181ECE0291), Mr. Nittur Lalith Bharadwaj (20181ECE0304), Mr. Parth Prahlad Rajguru (20181ECE0352) and Mr. Vankadara Sai Shabarish (20181ECE0367) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of University Project (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Akshatha K

Supervisor, Assistant Professor Dept. of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Dept. of

Electronics and

Communication Engineering

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Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the University Project (PIP 102) work entitled "DFT BASICS" is original work carried out by Mr. Vennapusa Charan Subhash Reddy (20181ECE0373), Mr. Rahul R (20181ECE0410), Mr. Shaik Mohammed Sameeulla (20181ECE0413) and Mr.Pochireddy Pochi Reddy who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of University Project (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Superviser & Assistant Professor

Dept. of Electronics and Communication

Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Dept. of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "Design for Testability" was carried out by Mayank Chandra (ID No. 20181ECE9017) who is Bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Mathupandi G.

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

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Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

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Certificate

This is to certify that the University Project (PIP 102) work entitled "Capgemini Internship (Online Shopping A, Toy Rental A)" was carried out by Mr. NALLABALLI GNANESWAR (ID No. 20181ECE0399) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Syed Abrar Ahmed

Supervisor & Assistant Professor

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Dr. Rajiv Ranjan Singh

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Certificate

This is to certify that the University Project (PIP 102) work entitled "Capgemini Internship (Online Shopping A, Toy Rental A)" was carried out by Mr.GUNDA MOHANKRISHNA (ID No. 20181ECE0215) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Syed Abrar Ahmed

Supervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

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Certificate

This is to certify that the University Project (PIP 102) work entitled "Capgemini Internship (Online Shopping A, Toy Rental A)" was carried out by Mr Guntakanti Harshavardhan Reddy (ID No. 20181ECE0219) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr Syed Abrar Ahmed Supervisor & Assistant Professor

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Dr. Rajiv Ranjan Singh

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Certificate

This is to certify that the Internship Program (PIP102) work entitled "Capgemini Internship (Online Shopping A, Toy Rental A)" was carried out by Mr. KOTA SANDEEP (ID No. 20181ECE0253), Mr. MADDI VAMSI KRISHNA (ID No. 20181ECE0273), Mr. SUNKARA SIVA SANKAR (ID No. 20181ECE0351), Mr. GOLLA HARIPRIYA (ID No. 20181ECE0208) who are bonafide students of VIII Semester B. Tech., Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mrs. Kehkeshan Jalall S

wheesh

Supervisor & Assistant professor

Department of Electronics and

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Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

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Certificate

This is to certify that the University Project (PIP 102) work entitled "CLEVERNIST ED TECH" was carried out by NALLANI KIRAN KUMAR (ID No. 20181ECE0297) who is Bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

N 88 06 2022

Dr. Shwetha M

Supervisor & Assistant Professor Department of Electronics and

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Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

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Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Program (PIP102) work entitled "CLEVERNIST ED TECH" was carried out by Mr. DUDEKULA FAIROZ (ID No. 20181ECE0189) who are bonafide student of VIII Semester B.Tech., Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Duneeth S B

Supervisor & Assistant professor Department of Electronics and

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Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "EDTECH SALES" was carried out by S. Rohith Kishan (ID No. 20181ECE0342), who is bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Puneeth S B

Supervisor & Assistant Professor
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Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering





Private University Estd. in Karnataka State by Act No. 41 of 2013

DEPARTMENT OF ELECTRONICS AND COMMUNICATION **ENGINEERING**

BONAFIDE CERTIFICATE

Certify that this report "BUSINESS DEVELOPMENT ASSOCIATE" is a bonafide work of "ALAMURA AYESHA 20181ECE0134", who have successfully carried out the internship work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS COMMUNICATION AND ENGINEERING during 2021-22.

5. Caizan Ali Dr. Savved Faizan Ali

Assistant Professor

Dept. of Electronics and

Communication Engineering

Presidency University

Dr. Rajiv Ranjan

Professor and HOD

Dept. of Electronics and

Communication Engineering

Presidency University

Name and Signature of the Examiners:

1) NATYAS 18/6/22

2) T. PRABHU (P)

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Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "ROLE OF INSIDE SALES EXECUTIVE" was carried out by Mr. ANUJ KUMAR JHA (ID No. 20181ECE0142), who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Tony Aby Warkey M.
Supervisor & Assistant Professor
Department of Electronics and
Communication Engineering

Dr. Rajiv Ranjan Singh
Professor & Head
Department of Electronics and
Communication Engineering

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Certificate

This is to certify that the University Project (PIP 102) work entitled "Senior Inside Sales Executive" was carried out by SHIFALI VK (ID No. 20181ECE0108) who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Tony Aby Varkey
Assistant Professor

Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "INSIDE SALES EXECUTIVE" was carried out by Ms. KHAJEE SAMEENA SULTHANA (ID No. 20181ECE0420) who are bonafide college students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Mr. Tony Aby Varkey M

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

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B.Tech. Electronics and Communication Engineering / June, 2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "INSIDE SALES EXECUTIVE"

actived out by Ms. MACHA BINITHA YADAV (ID No. 20181ECE0270) who are bonafide college

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Mr. Tony Aby Varkey M Spervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh
Professor & Head
Department of Electronics and
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Examiner-2

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Page 2

Bengaluru

Department of Electronics and Communication

Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "ECOMMERCE WEBSITE" was carried out by SHRUTHI S (ID No. 20181ECE0110) who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

DR. SREENIVASAPPA B V

Supervisor & Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "TRAINING ON LINUX AND NETWORKING" was carried out by Ms. Fathima Zaiba (ID - 20181ECE0030) who is a Bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. Sreenivasappa l

Supervisor & Professor

Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-2 SAB 20/06/2022

Bengaluru

Department of Electronics and Communications Engineering



CERTIFICATE

This is to certify that the Training report "HTML & CSS WEB DEVELOPMENT" was carried out by "THURAKA YASWANTH" (ID NO. 20181ECE0360), Iam a bonafide student of VIII Semester B.Tech Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Electronics and Communications in Presidency University, Bengaluru, during the year 2021-2022

Ms. Aruna Mt

Supervisor & Assistant Professor

Department of Electronics and Communication

Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

REGISTRAR Registrar

Bengaluru

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certified that the Training report "HTML & CSS WEB DEVELOPMENT" being submitted by "KUCHI ADARSH" bering roll number 20181ECE0256 in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics and Communications Engineering is a bonafide work carried out under my supervision.

Supervisor & Assistant Professor
Department of Electronics and Communication
Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

REGISTRAR Registrar

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Programme (PIP 102) work entitled "COMPANY DIRECTORY LISTING PORTAL" was carried out by MR. H S Chandan (ID No. 20181ECE0037) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Manaswini R to 10/22

Supervisor & Assistant Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship work entitled "EXOZEN" was carried out by Ms. Bhumika M (ID No. 20181ECE0017), Mr. Bhuvan Raj S (ID No.20181ECE0018), Mr. Jyothish P T (ID No.20181ECE0044), Ms. Sinchana D A (ID No.20181ECE0347) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

Examiner-1 Marashim # 6/22

Examiner-2 X 28/6/22

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

B. Tech. Electronics and Communication Engineering / June, 2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Programme (PIP 102) work entitled "COMPANY DIRECTORY LISTING PORTAL" was carried out by MR. Likhin Bopanna K D (ID No. 20181ECE0053) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Manaswini R 16 22.

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

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Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Program (PIP 102) work entitled "AUTOMATIC STREET LIGHTS USING LDR" was carried out by Mr. Lohith Gowda C V (ID No. 20181ECE0056)), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Ashwini B

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

1 2/6/20

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Programme (PIP 102) work entitled "COMPANY DIRECTORY LISTING PORTAL" was carried out by MR. Chandan R Kalhatti (ID No. 20181ECE0166) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Ashwini B

Supervisor & Assistant Professor Department of Electronics and Communication Engineering

Examiner-1 Sameer

Examiner-2

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

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Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SECURITY TRAINING" was carried out by Mr. Vasanth Kumar. R (ID No. ANALYST 20181ECE0125), who is a bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Associate Professor Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

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B. Tech, EGE/JUNE 2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship (PIP 102) work entitled "CONTROL PANELS AND PROGRAMMABLE LOGIC CIRCUITS" was carried out by Mr. Suhas Gowda S (ID No.20181ECE0394), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Ashwini B Supervisor & Assistant Professor

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh
Professor & Head
Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "DESIGN OF WIRE HARNESS FOR ELECTRIC VEHICLE AND BMS ARCHITECTURE" was carried out by Mr. Naveed Ulla Khan (ID No. 20181ECE0300) who is a bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Ashwini B

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Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "BMS CONTROLLER USING PCB ALLEGRO TOOLS" was carried out by Mr. Naveen Gowda N K(ID No. 20181ECE0301), Ms. Pragathi S (ID No.20181ECE0321), Ms. Rakshitha R(ID No. 20181ECE0331) and Mr. Rithik Krishnan K (ID No. 20181ECE0334) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Asst Professor Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh
Professor & Head
Department of Electronics and
Communication Engineering

Examiner-1 📗

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Examiner-2

Sommy C-S. 18 06 2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "PLC BASED ELEVATOR CONTROL SYSTEMS" was carried out by Mr. Dipesh A D (ID No. 20181ECE0185), Mr. Goutham Kumar G (ID No. 20181ECE0212), and Mr. Prajwal N U (ID No. 20181ECE0086) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Examiner-1 Manaswini 2/6/6/22.

Examiner-2 Sovery C.S. 16/6/2022

Dr. Rajiv Ranjan Singh

Professor & Head Department of Electronics and Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Internship (PIP 102) work entitled "INDIAN AGRICULTURE WEBSITE" was carried out by Mr. KURUVA SREEKANTH (ID No. 20181ECE0262) who is bonafide student of VIII Semester B. Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Technology in Presidency University, Bengaluru, during the year 2021-2022.

Ms. Aruna Dore

Dr. Rajiv Ranjan Singh

Supervisor & Professor

Professor & Head

Department of Electronics and Communication Engineering

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

18 8 22.

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "SMART SHOPPING CART SYSTEM USING RFID AS IOT APPLICATION" was carried out by Allagadda Maruthi Rohith (ID No. 20181ECE0135), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfilment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

DR.RAJIV RANJAN SINGH

Professor&Head

Department of Electronics and Communication Engineering

Examiner-1

DR.ASHUTOSH ANAND Supervisor&Assistant professor

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "INDIAN AGRICULTURE WEBSITE" was carried out by Mr. MATATHAMBALPERIYANAMBI S MADHU SUDHAN (ID No. 20181ECE0283) who is bonafide student of VIII semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Technology in Presidency University, Bengaluru, during the year 2021-2022.

Dr. K Rafeed Ahmed

Supervisor & Professor

Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

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Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Internship (PIP 102) work entitled "INDIAN AGRICULTURE WEBSITE" was carried out by Mr. MULLAGURU SAI DINESH (ID No. 20181ECE0289) who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Technology in Presidency University, Bengaluru, during the year 2021-2022.

Dr. K Rafeeq Ahmed

Supervisor & Professor

Department of Electronics and Communication Engineering Professor & Head

Dr. Rajiv Ranjan Singh

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Professional Practice (PIP 102) work entitled "Graphical User Interface development for Human Machine Interface - Panels" was carried out by Mr. R Sai Suhas (ID No. 20181ECE0091), who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. K Rafeed Ahmed

Supervisor & Professor

Department of Electronics

and Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1 ______ SAD 17/6/2022

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Professional Practice (PIP 102) work entitled "Simulation of Radar Waveform" was carried out by Ms. Saranya S (ID No. 20181ECE0103), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2024.

Dr. K Rafeeq Ahmed

Supervisor & Professor

Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Professional Practice (PIP 102) work entitled "ONLINE JEWELLERY SHOP" was carried out by MR. SHARATH M (ID No. 20181ECE0107) who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Dr. K Rafeeq Ahmed

Supervisor & Professor

Department of Electronics and

Communication Engineering

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "POST SILICON VALIDATION" is original work was carried out by G VAMSIDHAR REDDY (20181ECE0196) who is a bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Assistant Professor

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and

Communication Engineering

Bengaluru

Department of Electronics and Communication Engineering



CERTIFICATE

This is to certify that the Project report "Web Development" being submitted by "MANCHA CHINNA BAYANNA" bearing roll number: 20181ECE0280, in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Electronics & Communication Engineering is a Bonafide work carried out under my supervision

MIN ABOUNA M

Supervisor & Assistant Professor Department of Electronics and

Communication Engineering

Examiner-1

Examiner-2

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

REGISTRAR ge 3 of 40

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the University Project (PIP 102) work entitled "WEB DEVELOPMENT" was carried out by Mr. Andra Ram Nitish who is bonafide student of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

MS-Aruna M

Supervisor & Assistant. Professor

Department of Electronics and Communication Engineering Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the training (PIP 102) work entitled "HTML WEB DEVELOPMENT" was carried out by Mr. Mohammed Ansar (ID No.20181ECE0344) who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Supervisor & Asst Professor Department of Electronics and Communication Engineering

Dr. Rajiv Ranjan Singh Professor & Head Department of Electronics and

Communication Engineering

Examiner-1 5/b 20 06 2022

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Program (PIP102) work entitled "HTML WEB DEVELOPMENT" was carried out by Mr. MUKUND (ID No. 20181ECE0068) who are bonafide student of VIII Semester B.Tech., Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Manaswini. Phologe

Ms. Manaswini R
Supervisor & Assistant professor
Department of Electronics and
Communication Engineering

Dr. Rajiv Ranjan Singh Professor & Head

Department of Electronics and Communication Engineering

Examiner-1

Examiner-2

Presidency University

Bengaluru

Department of Electronics and Communication Engineering



Certificate

This is to certify that the Internship Project (PIP 102) work entitled "Online Pizza Ordering System" was carried out by Mr. Mohammed Abdul Qadeer (ID No.20181ECE0063), who are bonafide students of VIII Semester B.Tech. Electronics and Communication Engineering in Presidency University. This is in partial fulfillment of the course work in place of Professional Practice (PIP 102) of Bachelor of Engineering in Presidency University, Bengaluru, during the year 2021-2022.

Manashini R 16/6/22

Supervisor & Assistant Professor

Department of Electronics and

Communication Engineering

16/1/22

Evaminar 2

16/6

Dr. Rajiv Ranjan Singh

Professor & Head

Department of Electronics and Communication Engineering