



National Education Society (R.)

**J N N College of Engineering, Shivamogga**

(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC - 'B', UG programs: CE, ME, EEE, ECE, CSE, ISE, TCE accredited by NBA: 1.7.2019 to 30.6.2022, Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)



**Department of Electronics & Communication Engineering**

5.8.2021

**Submitted to Principal:**

**Sub: Final Year Project Exhibition – reg**

With reference to the above subject, the department has organized Project Exhibition for Final year Students on 4.8.2021. 11 Projects were exhibited. The detailed report is attached herewith.

The cash prize of Rs.3000, Rs.2000 and Rs.1000 for first, second and third best projects were awarded.

Hence, we request you to make arrangements to transfer the amount to the prize winners.

Thanking you,

*S. V. Sathy* 5.8.21

(Dr. S V Sathyaranarayana)

Professor & Head

Dept. of Electronics & Communication Engg.  
J N N College of Engineering  
SHIVAMOGGA-577 204.

NES - JNNE

Budget Code .....	3404
Expense Head .....	Conf / Workshop / Seminar / FDP Exp.
Operating Balance .....	Rs. 2,83,400/-
Billig Amount .....	Rs. 6,000/-
Cr. Bal. Balance .....	Rs. 2,77,400/-

*S. V. Sathy* 5.8.21  
Principal



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## J N N College of Engineering, Shivamogga

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### Department of Electronics & Communication Engineering

3.8.2021

#### Submitted to Principal:

**Sub:** Organizing Final Year Project Exhibition – reg

With reference to the above subject, the department has planned to organize Project Exhibition for Final year Students as per the following details:

**Event:** Final Year Project Exhibition

**Date:** 4.8.2021

**Duration:** 10.00AM to 1.00PM

**No. of Project short listed:** 10 to 12 Projects

**External Juries:** Dr. S N Jagadeesha, Former Professor & HoD, CSE Dept. PESITM, Shivamogga & Prof. H. K. Harish, Former Professor, ECE Dept. JNNCE, Shivamogga

**Coordinators:** Dr. S Prarnod Kumar, Associate Professor & Mr. Sharath S M, Asst. Professor, Dept. of ECE

This program would be very helpful for the students to showcase their innovative ideas. Further, this is a mandatory requirement of NBA (Criteria 2). It is planned to give a cash prize of Rs.3000, Rs.2000 and Rs.1000 for first, second and third best projects.

Hence, we request you to permit to organize this online project exhibition and sanction the amount for organizing this event.

Thanking you,

  
(Dr. S V Sathyanarayana) 3/8/2021

Professor & Head  
Department of Electronics & Communication Engineering  
J N N College of Engineering, Shivamogga



Principal  
Jawaharlal Nehru National  
College of Engineering, Shivamogga.



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to VTU, Belagavi)



**Department of Electronics and Communication Engineering**

**You are all cordially invited for the  
Inauguration  
of  
"Innovative Project Exhibition cum Competition"**

**Guest of Honour**

**Sri. S. N. Nagaraja**  
Secretary, NES, Shivamogga

**Presided by**

**Dr. Manjunatha P**  
Principal, JNNCE, Shivamogga

**Presence**

**Dr. M M Rajath Hegde**  
Dean Infrastructure, JNNCE, Shivamogga

**Dr. Sathyanarayana S V**  
Professor and HOD, Dept. of ECE, JNNCE, Shivamogga

**Coordinators**

**Dr. S Pramod Kumar**  
Associate Professor, Dept. of ECE, JNNCE, Shivamogga

**Mr. Sharath S M**  
Assistant Professor, Dept. of ECE, JNNCE, Shivamogga

**Date: 04-08-2021**

**Time: 10:00 AM**

**Venue: M.Tech Lab, Dept. of ECE, JNNCE.**

**HOD and Staff Members of E&C**





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### Department of Electronics & Communication Engineering

#### Shortlisted Projects for Project Exhibition

Batch No.	USN	Name	Guide	Project Title
B7	4JN17EC046	MOHAMMED ZEESHAN	Sheela. S	SELF DRIVING CAR USING DEEP LEARNING AND OPENCV
	4JN17EC053	PAVAN E V		
	4JN17EC058	PRAJWAL A SHETTY		
	4JN17EC060	PRAJWAL S YALLUR		
B12	4JN17EC051	NIMRA KULSUM	Sunil. M. D	PUBLIC GARDEN AUTOMATION WITH SOCIAL DISTANCE MONITORING SYSTEM
	4JN17EC001	AALIYA TAZEEN		
	4JN17EC036	LAVANYA T		
	4JN17EC032	KEERTHANA S		
B13	4JN17EC050	NIKHITHA V MELIGE	Shwetha. H. R	AUTOMATED WHEEL CHAIR NAVIGATION & HEALTH MONITORING THROUGH OPEN-CV USING RASPBERRY PI
	4JN17EC103	SUJEETH US		
	4JN17EC086	SANJAY D GOWDA		
	4JN17EC087	SHABARISH REDDY B S		
B14	4JN17EC039	MANOJ M	Dr. Manjunatha. P	KANNADA MNIST - KANNADA HANDWRITTEN CHARACTER DATASET AND CHARACTER RECOGNITION BY DEEP LEARNING(CNN) USING RASPBERRY PI
	4JN17EC027	K S ANOOP		
	4JN17EC045	MOHAMMED SAFEER ABBAS		
	4JN17EC124	AKASHADEEPA N		
B17	4JN17EC037	Likitha M	Pradeepa. S. C	WOMEN SECURITY SYSTEM USING GSM AND GPS
	4JN17EC040	Masouda Noushin		
	4JN17EC022	Dhravya B S		
	4JN14EC063	PRADEEP B.		
B22	4JN18EC424	Smitha MM	Roopa B. S	CONTROL AND MONITORING OF SMART GRID AND POWER THEFT DETECTION BY LOCATING AREA USING IoT
	4JN18EC422	Sinchana K A		
	4JN18EC421	Shriyasha		
	4JN18EC412	Nikhil Maradian D		
B25	4JN17EC070	RAMYA K	Dr. Sathyanarayana. S. V	PLANT DISEASE DETECTION AND DIAGNOSIS
	4JN17EC071	RAMYASHREE K U		
	4JN17EC067	RAKSHITA SURESH DODDAMANI		
	4JN17EC073	Rashmi R		
B27	4JN17EC065	RACHANA K R	Dr. S. Pramod Kumar	SMART MILK VENDING MACHINE USING IOT
	4JN17EC093	SHRUTI SUBRAHMANYA REDDI		
	4JN16EC440	SRILEKHA H C		
	4JN17EC106	THEJASWINI A D		

B28	4JN17EC121	PAVAN GANESH KULKARNI	Abhijith. N	IoT BASED BLIND READER USING IMAGE PROCESSING AND MACHINE LEARNING
	4JN17EC116	YASHWANTH G S		
	4JN17EC105	TEJASWINI D O		
	4JN17EC109	USHA NUCHIN		
B32	4JN17EC108	USHA	Sumathi. K	AN END-TO-END DEHAZING METHOD USING DEEP LEARNING
	4JN17EC110	VARSHITHA R		
	4JN17EC085	SANJANA M		
	4JN17EC083	SANDHYASHREE M C		
B35	4JN17EC066	RACHANA.R	Dr. S. Pramod Kumar	IW-Net: AN AUTOMATIC AND MINIMALISTIC INTERACTIVE LUNG NODULE SEGMENTATION DEEP NETWORK
	4JN17EC064	PRIYANKA SURESH KORI		
	4JN17EC063	PRATHISHTA.M		
	4JN17EC089	SHREYA.H.S		
B11	4JN17EC006	AKSHATHA R	Sheela. S	CHAOTIC COLOR IMAGE ENCRYPTION SCHEME
	4JN17EC013	ARPANA A P		
	4JN17EC023	DRUSTI G J		
	4JN17EC049	NAGANDHIKA U		


  
 Dr. S. Pramod Kumar & Mr. Sharath S M  
 Project Coordinators

  
 Dr. S V Sathyanarayana.  
 HoD, E & C  
 Head of the Department  
 Electronics and Communication  
 J.N.M. College of Engineering  
 SHIMOGA-577 204.





## Department of Electronics & Communication Engineering

Date: 05/08/2021

### Project Exhibition Report

The department of Electronics and Communication Engineering has organized an "Innovative Project Exhibition cum Competition" on 04-08-2021. The event was inaugurated by Guest of Honour Sri. S. N. Nagaraja, Secretary, NES, Shivamogga, Presided by Dr. Manjunatha P, Principal, JNNCE, Shivamogga and in presence Dr. M M Rajath Hegde, Dean Infrastructure, JNNCE, Shivamogga, Dr. Sathyanarayana S V, Professor and HOD, Dept. of ECE, JNNCE, Shivamogga, Coordinators: Dr. S Pramod Kumar, Associate Professor, Dept. of ECE, JNNCE, Shivamogga, Mr. Sharath S M, Assistant Professor, Dept. of ECE, JNNCE, Shivamogga.

Project exhibition was carried out in two venues namely M.Tech laboratory and DEC laboratories Dept. of ECE. All the project work was evaluated by external juries namely Dr. S N Jagadeesha, Former Professor & HoD, CSE Dept, PESITM, Shivamogga. Prof. H. K. Harish, Former Professor, ECE Dept, JNNCE, Shivamogga. In total 12 project batches selected for the exhibition in that following 11 batches where presented the project work.

Batch No.	USN	Name	Guide	Project Title
B7	4JN17EC046	MOHAMMED ZEESHAN	Sheela. S	SELF DRIVING CAR USING DEEP LEARNING AND OPENCV
	4JN17EC053	PAVAN E V		
	4JN17EC058	PRAJWAL A SHETTY		
	4JN17EC060	PRAJWAL S YALLUR		
B12	4JN17EC051	NIMRA KULSUM	Sunil. M. D	PUBLIC GARDEN AUTOMATION WITH SOCIAL DISTANCE MONITORING SYSTEM
	4JN17EC001	AALIYA TAZEEN		
	4JN17EC036	LAVANYA T		
	4JN17EC032	KEERTHANA S		
B13	4JN17EC050	NIKHITHA V MELIGE	Shwetha. H. R	AUTOMATED WHEEL CHAIR NAVIGATION & HEALTH MONITORING THROUGH OPEN-CV USING RASPBERRY PI
	4JN17EC103	SUJEETH US		
	4JN17EC086	SANJAY D GOWDA		
	4JN17EC087	SHABARISH REDDY B S		
B14	4JN17EC039	MANOJ M	Dr. Manjunatha. P	KANNADA MNIST - KANNADA HANDWRITTEN CHARACTER DATASET AND CHARACTER RECOGNITION BY DEEP LEARNING(CNN) USING RASPBERRY PI
	4JN17EC027	K S ANOOP		
	4JN17EC045	MOHAMMED SAFEER ABBAS		
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B17	4JN17EC037	Likitha M	Pradeepa. S. C	WOMEN SECURITY SYSTEM USING GSM AND GPS
	4JN17EC040	MasoudaNoushin		
	4JN17EC022	Dhravya B S		
	4JN14EC063	PRADEEP B		

B22	4JN18EC424	Smitha MM	Roopa B. S	CONTROL AND MONITORING OF SMART GRID AND POWER THEFT DETECTION BY LOCATING AREA USING IoT
	4JN18EC422	Sinchana K A		
	4JN18EC421	Shriyasha		
	4JN18EC412	Nikhil Maradian D		
B25	4JN17EC070	RAMYA K	Dr.Sathyanarayana. S. V	PLANT DISEASE DETECTION AND DIAGNOSIS
	4JN17EC071	RAMYASHREE K U		
	4JN17EC067	RAKSHITA SURESH DODDAMANI		
	4JN17EC073	Rashmi R		
B27	4JN17EC065	RACHANA K R	Dr. S. Pramod Kumar	SMART MILK VENDING MACHINE USING IOT
	4JN17EC093	SHRUTI SUBRAHMANYA REDDI		
	4JN16EC440	SRILEKHA H C		
	4JN17EC106	THEJASWINI A D		
B32	4JN17EC108	USHA	Sumathi. K	AN END-TO-END DEHAZING METHOD USING DEEP LEARNING
	4JN17EC110	VARSHITHA R		
	4JN17EC085	SANJANA M		
	4JN17EC083	SANDHYASHREE M C		
B35	4JN17EC066	RACHANA.R	Dr. S. Pramod Kumar	iW-Net: AN AUTOMATIC AND MINIMALISTIC INTERACTIVE LUNG NODULE SEGMENTATION DEEP , NETWORK
	4JN17EC064	PRIYANKA SURESH KORI		
	4JN17EC063	PRATHISHTA.M		
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	4JN17EC013	ARPANA A P		
	4JN17EC023	DRUSTI G J		
	4JN17EC049	NAGANDHIKA U		

#### Photo Gallery:

Glimpses of the inaugural and project exhibition sessions:



Inauguration



B13: Automated Wheel Chair Navigation and Health Monitoring Through Open-Cv using Raspberry Pi





**B32: An End-To-End Dehazing Method Using Deep Learning**



**B11: Chaotic Color Image Encryption Scheme**



**B35: iW-Net An Automatic and Minimalistic Interactive Lung Nodule Segmentation Deep Network**



**B22: Control And Monitoring Of Smart Grid And Power Theft Detection by Locating Area using IoT**



**B7: Self Driving Car using Deep Learning and Opencv**



**B12: Public Garden Automation with Social Distance Monitoring System**



**B17: Women Security System using GSM and GPS**

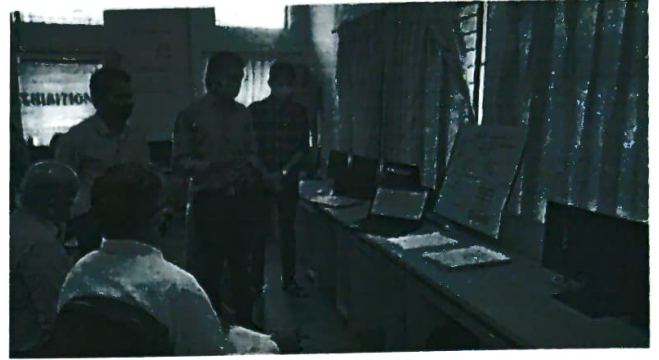


**B27: Smart Milk Vending Machine using IoT**





B25: Plant Disease Detection and Diagnosis



B14: Kannada Mnist - Kannada Handwritten Character Dataset and Character Recognition by Deep Learning(CNN) Using Raspberry Pi



Prize distribution in Valedictory

All the students demonstrated their work with all enthusiasm. External juries evaluated all the projects and adjudged three projects as best projects:

**1<sup>st</sup> Prize:** B13-Automated Wheel Chair Navigation and Health Monitoring Through Open-Cv using Raspberry Pi : **Cash Award: Rs. 3000/-**

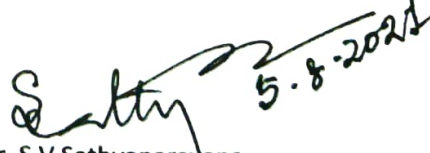
**2<sup>nd</sup> Prize:** B12-Public Garden Automation with Social Distance Monitoring System:

**Cash Award: Rs. 2000/-**

**3<sup>rd</sup> Prize:** B35-iW-Net An Automatic and Minimalistic Interactive Lung Nodule Segmentation Deep Network: **Cash Award: Rs. 1000/-**

The winners were awarded with cash prize and certificate. All the participants were given, participation certificate. It was a great display of team work.

  
Dr. S. Pramod Kumar & Mr. Sharath S M  
Project Coordinators

  
5.8.2021  
Dr. S V Sathyanarayana,  
HoD, E & C  
Head of the Department  
Electronics and Communication  
J N N. College of Engineering  
SHIMOGA-577 204.

Prize winners account details:

1 <sup>st</sup> Prize Rs:3000/-	
Team Member Name	Sujeeth U S
Address	Balaji nilaya ,Park road,2nd cross , Gandhi Nagar, Bhadravathi 577301
A/C Number	634402010002581
IFSC Code	UBIN0563447
Bank Name	Union Bank of India
Branch Name	Bhadravathi
Email ID	sujeethus2102@gmail.com
Phone Number	8495937330
PAN Number	ICIPS4513Q
AADHAR Number	698617945241

2 <sup>nd</sup> Prize Rs:2000/-	
Team Member Name	Aaliya Tazeen
Address	Allahwali Manzil, 6th Cross, A block,. Sharavathi Nagar, Shimoga, 577201
A/C Number	34956174604
IFSC Code	SBIN0015316
Bank Name	State Bank of India
Branch Name	Sharavathy Nagar Extension Branch, Harsha Arcade, opp Malnadasiri
Email ID	aaliyatazeen99@gmail.com
Phone Number	7338102718
PAN Number	CGVPA0401J
AADHAR Number	736102932116

3 <sup>rd</sup> Prize Rs:1000/-	
Team Member Name	Rachana R
Address	D/O Rudresh.H, kurubara street, Basavapattana-577551
A/C Number	0578108023461
IFSC Code	CNRB0000578
Bank Name	Canara bank
Branch Name	Basavapattana
Email ID	rachanayadav355@gmail.com
Phone Number	9845193734
PAN Number	DMYPR2413D
AADHAR Number	837439961835



National Education Society(R.)  
**JAWAHARLAL NEHRU NEW COLLEGE OF ENGINEERING**  
Navule, SHIVAMOGGA - 577 204, Karnataka.

No. **043**

**VOUCHER**

Date : 5/8/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA**, the sum  
of Rs. 3000/- (Rupees Three thousand only)

By Cash/Cheque No.: ..... Dated: .....  
towards 2<sup>nd</sup> Prize

Head of Account : Innovative Project Exhibition cum Competition  
Name : Sujeeth US Dept.: ECPE, JNNCE, Shivmoga

Sujeeth US  
Signature of Receiver

"Passed for payment"

Postos/21  
**PRINCIPAL**  
JNNCE, SHIVAMOGGA.

[Signature]  
Head of the Department  
Electronics and Communication  
J.N.N. College of Engineering  
SHIVAMOGGA-577, 204.

National Education Society(R.)  
**JAWAHARLAL NEHRU NEW COLLEGE OF ENGINEERING**  
Navule, SHIVAMOGGA - 577 204, Karnataka.

No. **039**

**VOUCHER**

Date : 5/8/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA**, the sum  
of Rs. 2000/- (Rupees Two thousand only)

By Cash/Cheque No.: ..... Dated: .....  
towards 2<sup>nd</sup> Prize

Head of Account : Innovative Project Exhibition  
Name : Aaliya Tazeen Dept.: ECPE, JNNCE, Shivmoga

At\*  
Signature of Receiver

"Passed for payment"

Postos/21  
**PRINCIPAL**  
JNNCE, SHIVAMOGGA.

[Signature]  
Head of the Department  
Electronics and Communication  
J.N.N. College of Engineering  
SHIVAMOGGA-577, 204.

National Education Society(R.)  
**JAWAHARLAL NEHRU NEW COLLEGE OF ENGINEERING**

Navule, SHIVAMOGGA - 577 204, Karnataka.

No. **042**

**VOUCHER**

Date : **5/8/2021**

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA**, the sum  
of Rs. **1000/-** (Rupees one thousand only)

By Cash/Cheque No.: ..... Dated: .....

towards **3<sup>rd</sup> Prize**

Head of Account : **Innovative Project Exhibition Cum Competition**  
Name : **Rachana.R** Dept.: **ECB, JNNCE, Shimoga**

**RA**  
Signature of Receiver

**"Passed for payment"**

**05/08/21**  
**PRINCIPAL**  
**JNNCE, SHIVAMOGGA**

**05/08/21**  
Head of the Department  
**Electronics and Communication**  
**J.N.N. College of Engineering**  
**SHIMOGA-577 204**





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**J N N College of Engineering, Shivamogga**

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**Department of Electronics & Communication Engineering**

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	4JN17EC073	Rashmi R		
B27	4JN17EC065	RACHANA K R	Dr. S. Pramod Kumar	SMART MILK VENDING MACHINE USING IOT
	4JN17EC093	SHRUTI SUBRAHMANYA REDDI		
	4JN16EC440	SRILEKHA H C		
	4JN17EC106	THEJASWINI A D		
B28	4JN17EC121	PAVAN GANESH KULKARNI	Abhijith. N	IoT BASED BLIND READER USING IMAGE PROCESSING AND MACHINE LEARNING

ATTENDANCE

Zeehan  
Pavan. E. V  
Pradeep  
B28

H  
Lavanya

M  
Brijesh  
S  
Pradeep

Am  
Manj  
M  
S

L  
Pradeepa  
S. C

R  
Sinchana  
Nikhil


R  
Ramya  
Rashmi  
Rashmi

R  
Rachana  
R  
Theja

Ad

	4JN17EC116	YASHWANTH G S		
	4JN17EC105	TEJASWINI D O		
	4JN17EC109	USHA NUCHIN		
B32	4JN17EC108	USHA	Sumathi. K	AN END-TO-END DEHAZING METHOD USING DEEP LEARNING
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	4JN17EC063	PRATHISHTA.M		
	4JN17EC089	SHREYA.H.S		


  
 Dr. S. Pramod Kumar & Mr. Sharath S M  
 Project Coordinators


  
 Dr. S V Sathyanarayana.  
 HoD, E & C  
 4/9/2021

B11

4JN17EC006 Akshatpa R.  
 4JN17EC013 Arpana AP  
 4JN17EC023 Drusti GJ  
 4JN17EC049 Nagandhika.U.

Sheela.S

Chaotic Color  
 Image  
 Encryption  
 Scheme

  
 Mr. K. V. Adalar  
 DISTRICT





## Virtual Project Exhibition

Date: 04/08/2021

## Best Projects Awarded

Place	Batch No.	Title of the Project	Name of the students	Marks Scored
I	B13	Automated wheel Chair navigation & Health Monitoring through open CV using Raspberry pi	Nikhitha V M Sujeeth U S Sanjay D Gowda Shabarish Reddy	26
II	B12	Public Garden Automation with social distance monitoring system	Nimra Kabeem Aaliya Tazeem Lavanya T Keerthana S	25
III	B35	iw-net: An Automatic and minimalist interest-line lung nodule segmentation deep network	Rachan R Priyanka Suresh Prathishtha M Shreya H. S.	24

## Name &amp; Signature of External Juries

1. Dr. S N Jagadeesha,  
Former Professor & HoD, CSE Dept,  
PESITM, Shivamogga

*S. N. Jagadeesha*  
4/8/21

2. Prof. H. K. Harish  
Former Professor, ECE Dept,  
JNNCE, Shivamogga

*H. K. Harish*  
04.08.21