

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
NEWS LETTER

THE GEEK LOG

2020-2021



DEPARTMENT VISION

PRODUCING HIGHLY COMPETENT,
INNOVATIVE AND ETHICAL COMPUTER
SCIENCE AND ENGINEERING
PROFESSIONALS TO FACILITATE
CONTINUOUS TECHNOLOGICAL
ADVANCEMENT.

DEPARTMENT MISSION

- To Impart Quality Education by creative Teaching Learning Process
- To Promote cutting-edge Research and Development Process to solve real world problems with emerging technologies.
- To Inculcate Entrepreneurship Skills among Students.
- To cultivate Moral and Ethical Values in their Profession.



INSTITUTE VISION

To mould true citizens who are millennium leaders and catalysts of change through excellence in education.

INSTITUTE MISSION

NCERC is committed to transform itself into a center of excellence in Learning and Research in Engineering and Frontier Technology and to impart quality education to mould technically competent citizens with moral integrity, social commitment and ethical values. We intend to facilitate our students to assimilate the latest technological know-how and to imbibe discipline, culture and spiritually, and to mould them in to technological giants, dedicated research scientists and intellectual leaders of the country who can spread the beams of light and happiness among the poor and the underprivileged.

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Graduates will be able to Work and Contribute in the domains of Computer Science and Engineering through lifelong learning.

PEO2: Graduates will be able to Analyze, design and development of novel Software Packages, Web Services, System Tools and Components as per needs and specifications.

PEO3: Graduates will be able to demonstrate their ability to adapt to a rapidly changing environment by learning and applying new technologies.

PEO4: Graduates will be able to adopt ethical attitudes, exhibit effective communication skills, Teamwork and leadership qualities.





PRINCIPAL MESSAGE

Prof.Dr. Ambikadevi Amma.T



Nehru College of Engineering and Research Centre (NCERC), Pampady, is one of the pivotal pillars of Nehru Group of Institutions in the arena of technical education. It is also an approved research center that caters to the needs of higher education and research. Department of Computer Science and Engineering have always put in great effort to achieve the vision and mission of the institution through their enthusiastic works. Students and faculties of the department have always put their maximum effort to bring up all the prosperities to the department. This news letter will show case all the achievements of the department in the academic year 2020-2021.

HOD MESSAGE

Dr. U Vijay Sankar



Department of Computer Science and Engineering have a clean vision to be achieved. We always put forward our efforts to fulfil the vision and mission of department through which we achieve our institution's vision and mission. Our students and faculties always put forward something extra so that they can push forward to increase their abilities and impart more information to students. Having tough time in the epidemic situation, the students and faculties have never stepped back from their usual work plan. This newsletter will showcase all the highlights and achievements of our department for the academic year 2020-21.

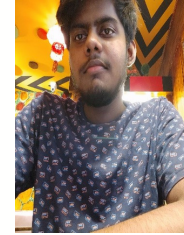


KTU RANK HOLDER



SNEHA T (NCE16CS104) secured 10th rank in KTU University in the 2016-2020 batch with 9.50 CGPA

PERFORMANCE IN DOORDARSHAN KOZHIKODE



ANAND M of 1st year CSE was part of the performance of traditional art form KANIYARKALI which was telecasted in Doordarshan, Kozhikode.

SIXTH PRIZE IN PROCOMM-COMMUNICATION PROJECT

AARATHI P, ANAND M of 1st year CSE along with TINTO TOMMY and RAJITH KRISHNAN of 1st year and 3rd year Mechatronics respectively secured 6th prize for their project titled “ CODE 4-VYUH: A Blockchain Based Secured Communication Framework for EVMS” in project competition "PROCOMM-Communication Project" organized by IEEE ComSoc Kerala Chapter.

IEEE ComSoc Kerala Chapter | IEEE Kerala Section | IEEE

PROCOMM IEEE COMMUNICATION PROJECT COMPETITION 2020

4 TH PRIZE \$15	5 TH PRIZE \$15	6 TH PRIZE \$15
2-BIT	ACES	CODE4 - VYUH:
Shivam Sivasan DTU Kerala Rashi Sivadasya Dergal University of Kerala	Daliya Joseph ASST, KJ Somaiya Abiya Issac ASST, KJ Somaiya Anurima P V ASST, KJ Somaiya K Yadhukrishnan ASST, KJ Somaiya	Anand M MADR College of Engineering & Research Center Aarathi P MADR College of Engineering & Research Center Tinto Tommy MADR College of Engineering & Research Center Rajith Krishnan MADR College of Engineering & Research Center
PROJECT: Digital Imaging of Objects Behind Walls	PROJECT: Smart Meters	PROJECT: A Blockchain Based Secured Communication Framework For EVMS

comsoc.ieee.kerala.org | f | t | i | n | /ieeecomsocsk



TECH-Q WINNER

Nivya Ignatious of second year won the third prize in Tech- Q quiz competition conducted by IEEE as a part of National Technology day.

IEEEEXTREME 15.0 AMBASSADOR

Anand M of first year was selected as the Ambassador for the IEEEEXTreme 15.0 event .

SANITIZER DISPENSER TO FIGHT AGAINST COVID 19

When the COVID 19 pandemic strike in the world Vishnu Mohanan of S6 CSE and his friends developed a automatic sanitizer dispenser at low cost and donated it to the our panchayat situated in our home town Pazhayannur on August 20 2020 in the presence of Honourable panchayat president .The automatic sanitizer dispenser is an infrared motion sensor based dispenser .It has a touch less operation ,which makes people fearless and more confident about the sanitization process .It is also known as a touch-less sanitizer dispenser. Due to the inbuilt motion sensor, it senses the hand motion below the brass nozzle and open the valve to dispense sanitizer .As per the set timer ,it only allows 1ml liquid at once time .In the time of world pandemic COVID19 ,the automatic hand sanitizer dispenser is an essential product to kill the effect of corona virus .

ചെലവുകുറഞ്ഞ സാനിറ്റൈസർ ഡിസ്പെൻസറുമായി വിദ്യാർത്ഥികൾ

വിദ്യാർത്ഥികൾ ചെലവുകുറഞ്ഞ രീതിയിൽ നിർമ്മിച്ച ഓട്ടോമാറ്റിക് ഹാൻഡ് സാനിറ്റൈസർ ഡിസ്പെൻസർ

പഴയന്നൂർ - വിദ്യാർത്ഥികളായ സംരംഭകർ ചെലവുകുറഞ്ഞ രീതിയിൽ ഓട്ടോമാറ്റിക് ഹാൻഡ് സാനിറ്റൈസർ പുറത്തിറക്കി. ഹാൻഡ്ബോർഡിലാണ് വൈദ്യുതിയിൽ പ്രവർത്തിക്കുന്ന ഈ ഉപകരണം നിർമ്മിച്ചിരിക്കുന്നത്. ഇൻഫ്രാറെഡ് രശ്മികൾ ഉപയോഗിച്ച് പ്രവർത്തിക്കുന്ന സെൻസറാണ് സാനിറ്റൈസർ. പാമ്പാടി നെഹ്രു കോളേജിലെ ഏഴ് വിദ്യാർത്ഥികൾ ചേർന്നുള്ള ആൽഫാ കെക്നോളജീസാണ് നിർമ്മിക്കുന്നത്. എൻജിനീയറിങ്ങ് വിദ്യാർത്ഥികളായ പ്രണവ്കൃഷ്ണ, വിഷ്ണു മോഹൻ, അമൽകുമാർ, എം.വിഷ്ണു, വിഷ്ണു മുരളീധരൻ എന്നിവരാണ് ഇതിനുപിന്നിൽ. രണ്ടു ലിറ്റർ രോഷിയുള്ള ഡിസ്പെൻസർ പഴയന്നൂർ പഞ്ചായത്തിലേക്ക് സൗജന്യമായി നൽകി.

30/07/2020 WADAKKANCHERY Pg 09



NCC B- GRADE CERTIFICATE HOLDERS



Divya P
S8 CSE



Anjali E
S6 CSE



Anju Anto
S6 CSE



Arathi Chandrabose
S6 CSE



Navaneeth P
S6 CSE



Sandra N P
S6 CSE



Saranya N
S6 CSE



Shybi Varghese
S6 CSE



Sneha S
S6 CSE

PLACED STUDENTS

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
Accredited by NAAC
An ISO 9001:2015 Certified Institute. Approved by AICTE & Affiliated to J.J. Salgia College Technological University
Pampady, Thiruvananthapuram, Kerala (Dist:- 686 588)

Students Placed in
TATA CONSULTANCY SERVICES
from NCERC
(2021 Passing out Batch)
Congratulations

Anjali Sunil M.Tech CSE
Leenu Mathew CSE 57
Rohit Bhaskar Uday CSE 57

Team NCERC

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
Accredited by NAAC
An ISO 9001:2015 Certified Institute. Approved by AICTE & Affiliated to J.J. Salgia College Technological University
Pampady, Thiruvananthapuram, Kerala (Dist:- 686 588)

Students Placed in
Chegg
Chegg India Pvt Ltd
from NCERC
(2021 Passing out Batch)
Congratulations

Ramnath V IT Mech
Adith S IT CSE
Amrutha R IT CSE
Sneha Subramaniam IT Sub CSE
Anjali Sunil M.Tech CSE
Moona O M M.Tech Cyber Security
Bimitha K.B MCA

Team NCERC

TOPPERS OF SEMESTER RESULTS

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
Accredited by NAAC
An ISO 9001:2015 Certified Institute

Toppers List In
S2 B.Tech KTU Results

SHYBHA RESHMA PATEL
MCA (17CS010)
SGPA: 9.83

P T SIVARAJAN
MCA (17CS010)
SGPA: 9.81

ANURITHA P
MCA (17CS010)
SGPA: 9.82

ANANDHI P
MCA (17CS010)
SGPA: 9.82

AFSEENA A
MCA (17CS010)
SGPA: 9.82

COMPUTER SCIENCE & ENGINEERING

Congratulations

SEMESTER 4



MANASA K S
(NCE18CS030)
SGPA: 9.87



K PRAVEENA
(NCE18CS027)
SGPA: 9.83



RANJITH R
(NCE18CS038)
SGPA: 8.96



SANDRA N P
(NCE18CS041)
SGPA: 8.96

SEMESTER 8



SNEHA T (NCE16CS104)
SGPA: 10.0



SIVARAJAN M
(NCE16CS103)
SGPA: 9.83



SREELAKSHMI GIRISAN
(NCE16CS108)
SGPA: 9.75



DEEPTHIDAS R
(NCE16CS041)
SGPA: 9.75

SEMESTER 6



LEENU MATHEW
(NCE17CS016)
SGPA: 10.0



SHINU (NCE17CS024)
SGPA: 9.22



AFSEENA A
(NCE17CS016)
SGPA: 9.04



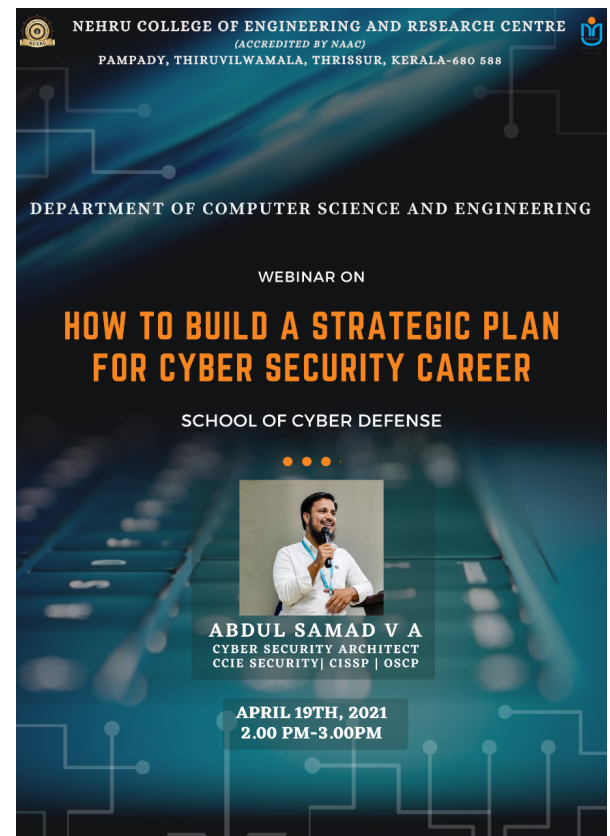
WEBINAR ON DEVELOPING YOUR IDEAS TO MVP

Webinar Session on Developing your Ideas to a Minimum Viable Product was conducted by Mr. Jithin Rajiv, Founder and CEO and Vyshak K, Co-founder & CMO, BrainsPrep on November 12th, 2020. The webinar had brief discussion on how to develop your idea into a viable product and the steps do be done to make it a proper product. It was arranged for all the students of Computer Science and Engineering Department including the PG and UG students. The faculties of the department were also part of the session.



WEBINAR ON HOW TO BUILD A STRATEGIC PLAN FOR CYBER SECURITY CAREER

Webinar Session on How to Build a Strategic Plan for Cyber Security Career was conducted by ABDUL SAMAD V A, CYBER SECURITY ARCHITECT CCIE SECURITY| CISSP| OSCP on April 19th, 2021. The webinar had discussion about various basic concepts of Cyber Security and their effects on the society. The different cyber security attacks happened and the solution to those real time attacks were also discussed. The major area covered was regarding opportunities one have in the field of cyber security. The different highlights of the job career in the field of cyber security was also discussed in the session



WEBINAR ON CISCO BASED FUNDAMENTALS OF NETWORKING

Webinar Session on Cisco Based Fundamentals of Networking was conducted by Dr. U Vijaysankar, Associate Professor, CSE department, NCERC on April 30th, 2021. The session was arranged for final year and pre-final year students to know about networking platform using the CISCO tools. The session had discussion on working of different networking components involved and their real time applications. The session had practical implementation video of the different tools in networking

AUSTRALIAN AND INDIAN PATENT RECEIVED

Dr. U.Vijay Sankar, Hod of CSE Department, Nehru College of Engineering and Research Centre, Pampady has awarded Patent of Application publication in India and Australian Government.

Indian Patent Abstract: Secured Mutual Authentication Protocol using Physical Unclonable Function (PUF) for IoT Smart Home Devices

Australian Government Patent Abstract: Realistic Electric Load Profiling System Of Textile Mills By Considering Dynamic And Stochastic Behaviours Using Generative Adversarial Networks (Gan)



(12) PATENT APPLICATION PUBLICATION	(21) Application No. 2020102875 A
(19) INDIA	(25) Date of Filing of Application: 25/12/2020
(54) Title of the invention: Secured Mutual authentication Protocol using Physical Unclonable Function (PUF) for IoT smart home devices	(45) Publication Date: 19/02/2021
(71) Name of Applicant: 1. Dr. U. Vijay Sankar Address of Applicant: Associate Professor, Department of EEE, Vignana Foundation for Science, Technology and Research, Gurur, Andhra Pradesh, India Andhra Pradesh India	
(72) Name of Inventor: 1. Dr. U. Vijay Sankar 2. Mr. T. Aditya Sai Srinivas 3. Ms. Jyoti joshi 4. Mr. R. Lal Raja Singh 5. Mr. B. Jyoti 6. Dr. N. Saranya 7. Dr. Chitra Kusura Reddy 8. Dr. Krishna Prakash K.	
(51) International classification	
(11) Priority Document No	H04L000920000
(12) Priority Date	H04L000900000
(13) Name of priority country	H04L000900000
(16) International Application No	INDIA/2020/00000
Filing Date	GE04021220000
(17) International Publication No	NA
(81) Patent of Addition to Application Number	NA
Filing Date	NA
(82) Decision to Application Number	NA
Filing Date	NA

EDITORIAL TEAM

CHIEF EDITOR



VIPIN K M

ADVISORY COMMITTEE



NISHA A K



RADHIKA K

STUDENT EDITORS



AKARSH K MURTHY



LIKHA S