



# NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY

Affiliated to Anna University | Approved by AICTE | Accredited by NAAC  
Tambaram - Velachery Main Road, Santhosapuram, Chennai-600 073.

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## Vision and Mission

### VISION

To strive for excellence in imparting technical education by promoting innovation, creativity and entrepreneurial abilities of the students.

### MISSION

- Enhancing the effectiveness of teaching-learning process by providing a stimulating learning environment
- To establish R&D centers, incubation centers and centers of excellences in latest technologies and provide a platform for students to interact with the industry.
- Achieving Academic excellence by imparting knowledge and skills through problem solving, practical training and design & development of innovative projects.
- Sensitizing students to social and environmental issues.
- Inculcating discipline in students and make them technologically and ethically strong.



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## **Mission 1: Enhancing the Effectiveness of Teaching-Learning Process by Providing a Stimulating Learning Environment**

NPSBCET is focused on providing innovative methods for enhancing the learning experience of the students. Besides traditional teaching-learning methods, the college offers other effective platforms for making the learning process more efficient. Today, it is essential for students to learn and master the latest technologies in order to be corporate ready. As a consequence, teachers are combining technology with traditional modes of instruction to engage students in long term learning. Our College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education.

Effective content delivery by using ICT tools in the classroom for better understanding and reinforcement of the concepts and problem-solving is adopted by all the faculty of the institution. ICT tools complement traditional teaching-learning methods, and the institute is highly interested in providing innovative methods for enriching the learning experience.

In this process, ICT enabled infrastructure plays a vital role. Availability of quality audio- video systems and multimedia projectors in classrooms facilitates the faculty member use of PowerPoint; excel spreadsheets, videos, and online databases in classrooms help the students to master a basic and advanced understanding of subjects with greater clarity in the application of the concepts. Students also play a critical role here. For example, in many courses, students are allotted exercises/assignments in terms of presentation of case studies, topics etc. Such activities not only enhance learning outcomes but also develop self-confidence among students. Similarly, on many courses, quizzes are conducted online. All such activities put students at the center of the teaching and learning process.



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## Innovative practices used by faculty in Teaching and Learning Process: 2020-21 to till date

Sl. No	Innovation Method	Academic Year/ Sem.	Year	Description
1	ICT method	2020-21 (Even Sem.)	I,II,III and IV	Student can able to understand the concepts easily and record the session for future reference.
2	Google classrooms/ Zoom meetings	2020-21 (Odd & Even Sem.)	I,II,III and IV	Online classes conducted to the students in Covid-19 pandemic situation using the online web channels to understand the concepts effectively and record the session.
3	Assignments & Quiz Assessment	2020-21 (Odd & Even Sem.)	I,II,III and IV	For assessing the students' knowledge, conducted the online quiz by using the Google forms & give assignments on various topics
4	Experimental Learning	2020-21 (Odd & Even Sem.)	III and IV	Theory subjects and project-based laboratories are provided in the course curriculum that helps the students to demonstrate the prototype model or/and do oral presentation that helps them learn beyond their curriculum.
5	Self-Learning Encouragement in on-line learning mode (such as Coursera, Edx , NPTEL etc.,)	2020-21 (Odd & Even Sem.)	I,II,III and IV	Acquire the online certificate program for students and faculty members for up-skilling their knowledge in teaching and learning processes.
6	Participative Learning	2020-21 (Odd & Even Sem.)	I,II,III and IV	Students are encouraged to participate in activities where they can use their specialized technical or management skills, such as seminar presentations, group discussions etc.,
7	Problem-solving methodology	2020-21 I Sem.	I,II,III and IV	Encouraging students to acquire and develop problem-solving skills through participation in various inter-college and intra-college technical fests and other competitions.





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## Innovative Practices

### (i) ICT method

#### Introduction:

The role of the teacher is undergoing radical change - his expertise requires continuous training and coordination with students in the use and practical applications of Information and communication technology (ICT) in education. ICT in the educational process should serve as a learning method and not only as a tool. Use of PowerPoint, Excel spreadsheets, videos, and online databases in classrooms helps the students to master subjects with greater clarity in the application of the concepts. At the same time, it is important to realize that ICT does not replace traditional teaching methods, but complements them by encouraging curiosity, research and experimentation.

#### Innovations in Use of ICT

- a) Every classroom is provided with LCD projector, Wifi, and internet connection. The faculty member can use black board, LCD projector judiciously during the lecture delivery.
- b) Each course has its **course-plan** which contains all information related to courses participative learning and problem solving methodologies and
  - e - Resource for e-Content - The student can access the server of the digital library from home also with the help of URL link provided in the course plan

#### Outcomes:

- Enhancing learning experiences and providing new sets of skills,
- Reaching more students with Massive Open Online Courses(MOOCs),



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- Minimizing costs and saving time associated with information delivery and automating regular day-to-day tasks,
- Improving the administration of institutions to enhance the quality and efficiency of service delivery.

## a).Implementation: ICT Tools

Sl. No	Name of the faculty	A.Y	Year/ Dept	Subject	outcome	Photo
1	Dr. A. Buckshumiyar / MECH	2020-21 Even sem	III/ MECH	ME8694 Hydraulics and Pneumatics	Learn about various trouble shooting methods and applications of hydraulic and pneumatic systems	 MAIN BLOCK, New Prince Shri Bhavani College Of Engineering & Technology, Sembakkam, Chennai, Tamil Nadu 600073, India Latitude 12.914534° Longitude 80.1686883° Local 09:52:20 AM Altitude -76 meters
2	Dr.R.Ahila / CSE	2020-21 Even Sem.	II/CSE	CS8451 Design and Analysis of Algorithms	Learn about various algorithms and its complexity analysis	 132, Vengalvasal Main Road, Santhosapuram, Medavakkam, Chennai, Tamil Nadu 600073, India Latitude 12.9144876° Longitude 80.1695454° Local 09:45:32 AM Altitude 0 meters




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3	Ms. P. Usha Nandhini/ S&H	2020-21 Even Sem.	HS8461 Advanced Reading and Writing	Enhance their writing skills with specific reference to technical writing.	
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## NPTEL Videos

Lecture Series on “Data Structures and Algorithms” by Dr. Naveen Garg, Department of Computer Science and Engineering, IIT Delhi.

<http://www.nptelvideos.in/2012/11/data-structures-and-algorithms.html>

Unit Covered	Topics	Reference Link
Unit – I	Doubly Linked List	<a href="https://www.youtube.com/watch?time_continue=2601&amp;v=PGWZUgzDMYI">https://www.youtube.com/watch?time_continue=2601&amp;v=PGWZUgzDMYI</a>
Unit – II	Double Ended Queues	<a href="https://www.youtube.com/watch?v=kLBUj1Hle8g">https://www.youtube.com/watch?v=kLBUj1Hle8g</a>
Unit – III	Tree ADT	<a href="https://www.youtube.com/watch?v=tORLeHHtazM">https://www.youtube.com/watch?v=tORLeHHtazM</a>
Unit – IV	Representation of Graphs	<a href="https://www.youtube.com/watch?time_continue=2196&amp;v=hk5rQs7TQ7E">https://www.youtube.com/watch?time_continue=2196&amp;v=hk5rQs7TQ7E</a>
Unit – V	Hashing	<a href="https://www.youtube.com/watch?time_continue=4&amp;v=KW0UvOW0XI0">https://www.youtube.com/watch?time_continue=4&amp;v=KW0UvOW0XI0</a>

## (ii). Google classrooms/Microsoft teams//Zoom meetings/Cisco-WebEx:

In the Covid-19 Work-From-Home scenario, most of the educational institutes have adopted online education mode. This mode is heavily dependent on E-Learning. Tools and there are a lot of tools available in the market.





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- Learning Management (e.g. Moodle)
- Lecture Delivery (Microsoft Teams, Google Meets, Zoom, etc.)
- Video Editing and Compression
- Video Hosting, Streaming, and Downloading
- Assessments, Exams, etc.

As part of academics during the Covid-19 pandemic situations, our institution has adopted online teaching tools like **Google and Zoom meetings** for online classroom teaching for I<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year students via online mode from their home.

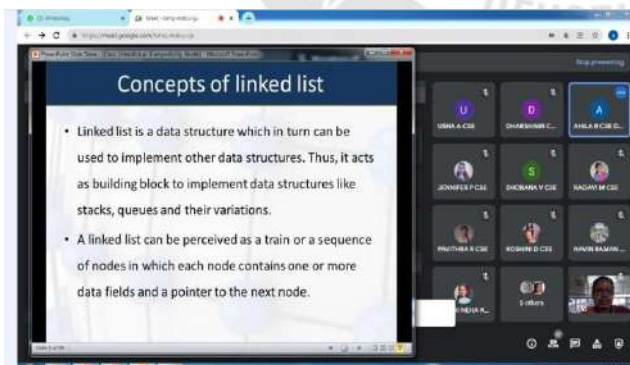
## Outcomes:

- Students are able to learn the new concepts via online classrooms
- Able to record the sessions and listen it whenever required.
- Share the contents in you-tube channel
- Improved the clarification of doubts in conversion manner by the students and faculty.

## Implementation:

All Departments of NPSBCET have implemented these online tools for conducting onlineclasses effectively Covind-19 pandemic period.

## Sample screen shot:



**Implementation** All course materials were uploaded in Google classrooms during the Covid-19 pandemic situations. The following are some examples:


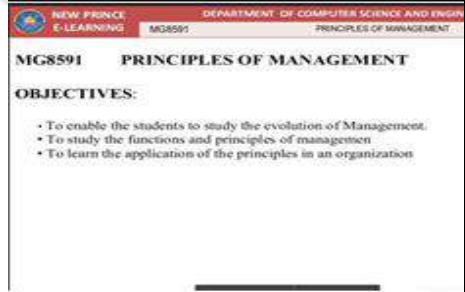
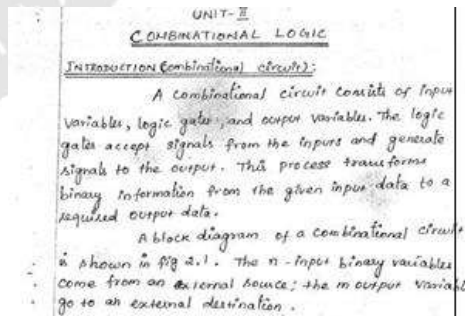


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Sl. No	Name of the faculty	A.Y	Year	Subject	Google classroom mslink
1	Ms..P.Kavitha /CSE	2020-21 (Odd Sem)	III	Object Oriented Analysis and Design- UNIT-1 MATERIALS	 <a href="https://classroom.google.com/u/0/c/TY5NDU1MTU5MzFa/m/MTI3NzMTk0Mzcw/details">https://classroom.google.com/u/0/c/TY5NDU1MTU5MzFa/m/MTI3NzMTk0Mzcw/details</a>
2	Ms. Komathi.P.V/ S&H	2020-21 (Odd Sem)	IV	Principles of Management UNIT-1 PPT	 <a href="https://classroom.google.com/u/0/c/NTY5NDU1MTU5NjVa/m/MTI2MjU1MjYyNTUz/details">https://classroom.google.com/u/0/c/NTY5NDU1MTU5NjVa/m/MTI2MjU1MjYyNTUz/details</a>
3	Mrs.S.Sivakami/ECE	2020-21 (Odd Sem)	II	DPSD - Unit II Notes	 <a href="https://classroom.google.com/u/0/c/NTY5NDU1MTU4NjZa/m/MTU5NzQ0MDI4Nzgz/details">https://classroom.google.com/u/0/c/NTY5NDU1MTU4NjZa/m/MTU5NzQ0MDI4Nzgz/details</a>





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### iii) Assignments & Quiz Assessment:

- Assignments were given to students on regular basis, which enables students to go through the topics in a more elaborate manner in order to explore the academic topic, which leads to an overall better learning experience.
- For assessing the students' knowledge, conducted the online quiz by using the **Google forms**

### Outcomes:-

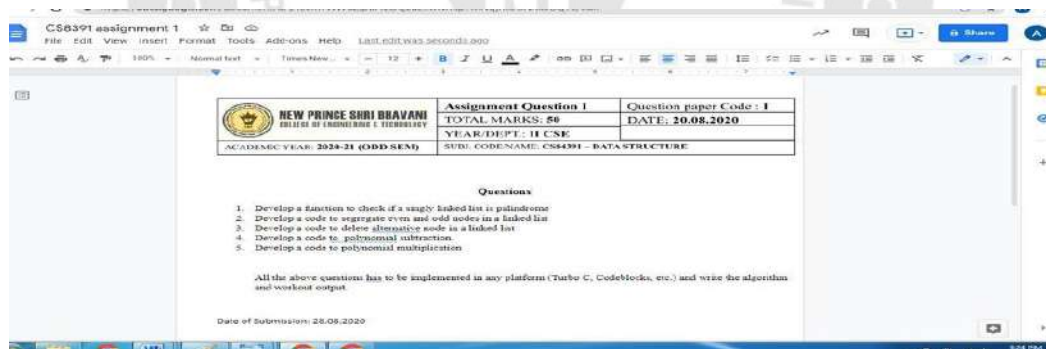
- To gain more knowledge on the subject.
- To acquire the more marks in objective type in internal examinations.
- Able to gain the depth knowledge of subject.

### Sample Assignment:

Link:

<https://classroom.google.com/u/0/c/NTY5NDU1MTU4NjZa/a/MTI3MTYyODY1MDIw/submissions/by-status/and-sort-last-name/returned>

### Instruction Page:



### Student Work Details:





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Sample Corrected Assignment: 780303 | [www.newprinceshribhavani.com](http://www.newprinceshribhavani.com)



#### iv). Experimental Learning:

Theory subjects and project-based laboratories are provided in the course curriculum that helps the students to demonstrate the prototype model or/and do oral presentation that helps them learn beyond their curriculum.

Project work forms an integral part of the curriculum at UG & PG levels:

- Project work is organized in two phases
  - Mini project and
  - Major Projects
- Internship or Field Projects in industry

Students get hands-on training while working in the company. During the period of study in the III year and IV year, many real-time projects and technical seminars are given to the students and they are guided by faculty and Industry / Research personnel. Institute and departments are continuously encouraged the students to publish their research work in International Conferences / Journals and motivating for filing patents also. Faculty members are also encouraging to use open source simulation software's in the class room teaching and laboratories. Experts from industry share their experience with the students prepare them for real time job scenario.

#### Objectives:

- To develop projects using the latest technologies by students
- To demonstrate the prototype model



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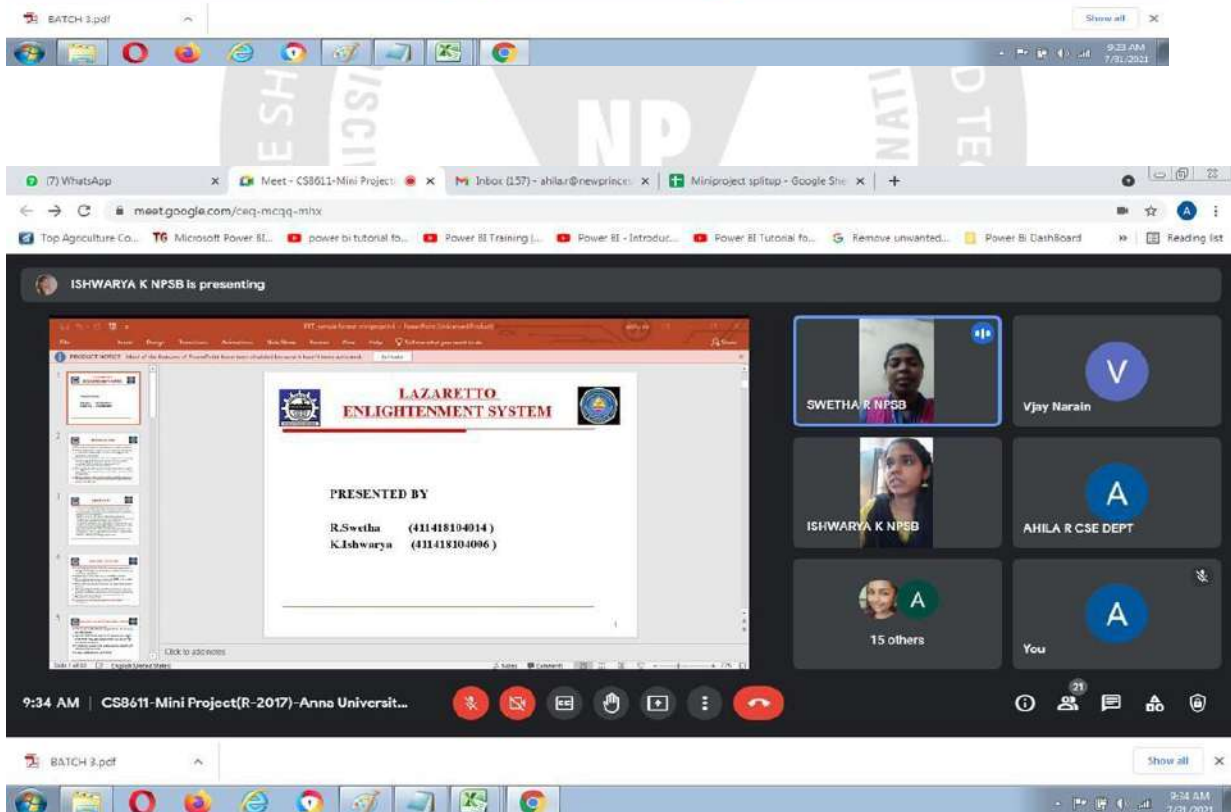
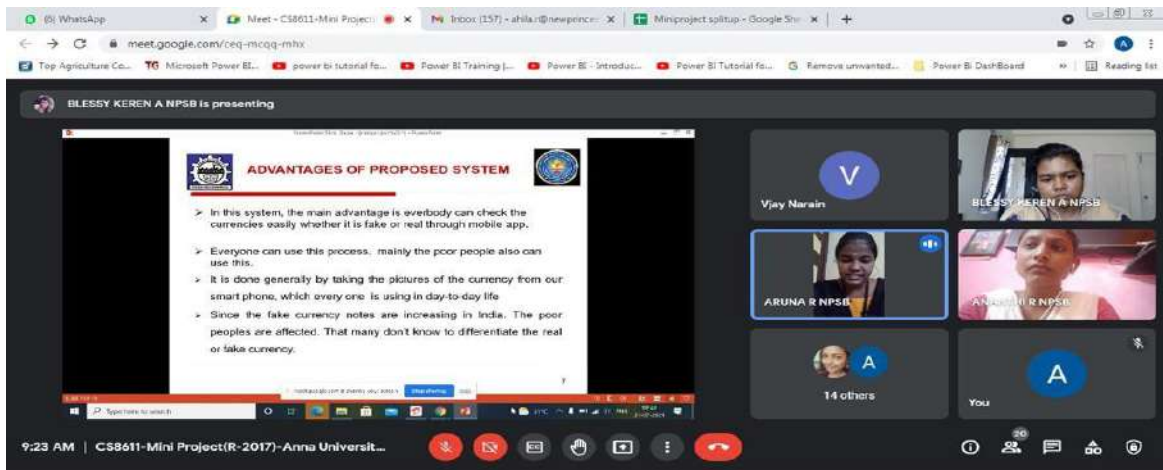
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- To do oral presentations that help them learn beyond their curriculum

## Implementation:

### Sample screen shot:







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## v). Self-Learning Encouragement in on-line learning mode:

It has been mandatory for each faculty member and student to register for at least one online course in platforms such as Coursera, Edx and NPTEL. This enables them to enrich their subject knowledge with current trends, and also to equip themselves with inter-domain projects.

### Objectives:

- To provides a online learning platform with certification program
- Interactive innovative online discussion forum with expert from the industry
- To gain the knowledge of emerging technologies from computer science and engineering
- To encourage the faculty and students to learn the new technologies with practical experiments.

### Implementation:





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6/10



**Priyanka.T**  
successfully completed and received a passing grade in

**CS198.2x: Blockchain Technology**  
a course of study offered by BerkeleyX, an online learning initiative of University of California, Berkeley.

**Berkeley**

*Rustie Lin*  
Rustie Lin  
Blockchain at BerkeleyX Lead, Instructor University of California, Berkeley

*Nadir Akhcar*  
Nadir Akhcar  
Blockchain at BerkeleyX, Instructor University of California, Berkeley

**VERIFIED**  
CERTIFICATE of ACHIEVEMENT

This is to certify that

## ICT Facilities

### Teachers using ICT for Effective Teaching





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IT BLOCK, New Prince Shri Bhavani College  
Of Engineering & Technology, Sembakkam,  
Chennai, Tamil Nadu 600073, India

Latitude	Longitude
12.9148385°	80.1683327°
Local 11:16:17 AM	Altitude 0 meters







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## **Mission 2: To Establish R&D Centers, Incubation Centers and Centers of Excellences in Latest Technologies and Provide a Platform for Students to Interact with the Industry.**

Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Administrative Management College has created an ecosystem for the teaching faculties and graduate students under to explore of their innovative ideas and sharing of their knowledge with other likeminded with respect to areas of interest. Students with creative ideas approach the specialized faculties who are guiding them in their works and later their works are presented in Symposiums/seminars/Conferences conducted by the affiliated colleges of the Anna University and other universities. The Research and Development Cell of NPSBCET inculcate research culture among the Students and encouraging for novel thinking. This platform provides an opportunity for expression of academic talent and promotes interaction among academia.

College has taken initiative steps towards developing ecosystem for innovations and knowledge sharing methods. The faculty members are encouraged and motivated to take up research activities utilizing the inherent skills. The Research and Development Cell of our institution to motivate the student and faculty members extends scopes to explore their new ideas in the field of research and development. It also helps to create research culture among faculty members and students.

The students and faculty are availing the facilities within the campus to carry out their research activities, such as;

- Wi-Fi throughout the campus
- Internet facility of 100 Mbps is available to students and staff.
- Computing facility is available and adequate licensed software is also available.
- Well-furnished Seminar/Auditorium halls with a seating capacity of over 200/500 audiences to conduct seminar/workshop, guest lectures, and discussion on technical paper/project presentations, cultural and screening of informative educational movies.



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## Sub: Research and Development Cell/2020-21

The following has been constituted to take up the research activities with regard to:-

- Motivate the student and faculty members and extend scopes to explore their new ideas in the field of research and development.
- The cell is responsible to create research culture
- To extend the techniques, how to write research papers to the students and faculty
- To arrange research methodology workshops for development of the faculty and students
- To arrange scope for presenting the research papers at national/international seminar/conference

### Development Cell

1. Dr.T. Saravanan, Principal Chairman
2. Dr.P.Sridevi Ponmalar, Professor (CSE) Member
3. Dr. G. Durgadevi, Professor (ECE) Member
4. Dr.S.Parthasarathy, Professor (EEE) Member
5. Dr.P.K.Chidambaram, Professor. (Mechanical) Member

### Goals and Objectives of R & D Cell

New Prince Shri Bhavani College of Engineering and Technology has put forth the idea to create and ingest sharing the upcoming technologies to all learners. The Research and Development Cell aims in the development of research culture in the College by endorsing research in newly emerging and challenging areas of Engineering, Technology, Science and Humanities. We have been persevering syllabus oriented and opening the wide extent of knowledge to our learners by organizing a passion for continuous advancement in their areas of interest irrespective of their opted discipline and also to protect and retain nature in all presumed



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ways. The main objective of NPSB's innovation ecosystem is to implant creative mind set in students and faculty members that enables to solve the problems of industry as well as the society. To encourage the students and faculty members to carry out research in the fields of Engineering, Technology, Science and Humanities by providing necessary facilities and infrastructures required for carrying out research and motivating them in improved products, processes and research work among students which indeed creates start up ecosystem in the college. We work as a catalyst to rejuvenate the technological education.

To build leaning among the students and faculty towards research and innovation and to encourage them to publish their findings in conferences and journals. To facilitate the students to apply funding for conducting research under student project scheme to various funding agencies like TNSCST, MSME etc. To support the government in serving the society by taking up sponsored projects offered by agencies such as TNSCST, DST, AICTE, UGC, ISRO, DRDO, CSIR, DBT etc. To reinforce the general research capability of nascent engineers by way of participating in conferences, seminars, workshops, project competition, etc. Innovation is key in regulating social and economic development and bridging the gap between theory and practice. The institution has adopted a systematic approach for handling innovation in a holistic manner that captures policy, governance, innovation engines and innovation enablers to shape our innovation ecosystem and bridge systemic and market gaps. Advancements in technology have transformed health, energy, transportation, communication and manufacturing industries across the globe. These transformations, in turn, have changed the organization of economies, the societies, and focusing greater cooperation within the international community through various institutions and arrangements.

To perform closely with the industry to understand their needs that ultimately will result in new or improved products, processes, systems or services that can increase the company's productivity and also promote Institute- Industry Collaboration. The institution has initiated many measures in promoting research and created an ecosystem for innovation through centres like incubation and other promotional cells/committees. The institute has a dedicated Research and Development team which aims at nurturing research culture in the College by promoting research activities. It encourages the faculty and also the students to undertake the research in newly





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emerging frontier areas of Engineering, Technology, Science and Humanities including multidisciplinary fields. This is promoted through enhancing the general research capability by way of participating in conferences, seminars, workshops, project competitions, Training and Placement.

## Research Advisory Committee

Sl.No	Name	Designation
1	Dr.Sindhuja M	Convener
2	Dr.Saravanan	Advisor
3	Dr.Edwin	Advisor
4	Dr.Shubram S	Advisor
5	Dr.Durgadevi G	Advisor
6	Dr Prakash M	Advisor

## About R & D Council

Institution Innovation Council (IIC-NPSB) had been constituted in our college as per the guidelines of the Ministry of Human Resource Development Innovation Cell (MIC)

## Introduction

Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and motivate young students by supporting them to work with new ideas and transform them into prototypes while they are in enlightening years. MIC has proposed encouraging creation of 'Institution's Innovation Council (IICs)' across selected HEIs. A network of these IICs will be established to create innovation in the Institution through considerable modes leading to an innovation promotion eco-system in the campuses.

## Major focus of IIC

To create a vibrant local innovation ecosystem. Start-up supporting Mechanism in HEIs. Prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework. Establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas. Develop better Cognitive Ability for Technology Students.



## **IIC ANNUAL REPORT 2020-2021**

Ministry of Education (MoE), Govt. of India has established MoE's Innovation Cell (MIC) to systematically foster the culture of innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years.

### **IIC - Vision**

To become a highly established Innovative institute in the society through continual innovation in education, research, creativity, and entrepreneurship activities and occupy a place amongst the most eminent institutions of the nation.

### **IIC –Mission**

- To conduct various innovation and entrepreneurship- related activities prescribed by central MIC in time bound fashion.
- Organize periodic workshops/seminars/interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize hackathons, idea competition, mini challenges etc. with the involvement of industries.

### **Roadmap of NPSBCET-IIC**

#### **NPSBCET Performance during the year 2018-2019**

MIC -IIC has been established at the institute during the year 2018. All the activities prescribed by the MIC and IIC have been organized to promote innovation and start-up in campus during the year 2018-2019.

As a credit, institute received 4 star rating certificate for the IIC performance during the year 2018-2019.



### NPSBCET Performance during the year 2019-2020



Number of IIC calendar activities performed during the academic year 2019-2020 is 24.

Number of MIC driven activities performed during the academic year 2019-2020 is 48.

Number of self driven activities performed during the academic year 2019-2020 is 48.

Since all the three activities were organized above the threshold level, our college has been listed in the TOP PERFORMING IIC INSTITUTES of SRO region during the academic year 2019-2020.

**NPSBCET ranked 2<sup>nd</sup> among the top IIC institutes of SRO region.**

26	IC201810347	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	COIMBATORE	Tamil Nadu	Southern/SRO
27	IC201810467	NEW PRINCE SHRI BHAVANI COLLEGE OF ENGG & TECH	CHENNAI	Tamil Nadu	Southern/SRO
28	IC201811089	SRI SAI RAM INSTITUTE OF TECHNOLOGY	CHENNAI	Tamil Nadu	Southern/SRO
29	IC201810371	SRI VENKATESWARA COLLEGE OF ENGINEERING, Chennai	CHENNAI	Tamil Nadu	Southern/SRO
30	IC201810363	SRI KRISHNA ARTS AND SCIENCE COLLEGE	COIMBATORE	Tamil Nadu	Southern/SRO





## Roles and Responsibilities

### Role of President

Dr.T.Saravanan, Principal of NPSBCET is the **President** of NPSBCET-IIC. Being President of IIC, From day one of its establishment, He is vibrant in his activities, and the institute gained a lot of support and research guidance under his mentorship. He acted as a good leader to organize all the departments to conduct the IIC calendar activities in time bound fashion.

### Role of Convener

Mr.D.Gowri Shankar, Assistant Professor/ECE of NPSBCET is the **Convener** of NPSBCET-IIC. As a Convener, Has to monitor all the IIC activities organized by the departments. To conduct quarter wise meetings with IIC members, this meeting helps us to strengthen ourselves and improve the cons which we would have done in the past.

### List of Advance level Innovation Ambassadors

S.No.	Faculty Name	E-Mail ID	Contact Number
1.	Mr. Gowri Shankar D	gowrishankar@newprinceshribhavani.com	9841234127
2.	Dr.G.Durgadevi	hodece@newprinceshribhavani.com	9789970460
3.	Dr.P.K.Chidambaram	chidambaram.pk@newprinceshribhavani.com	9962024265
4.	Dr.M.Sindhuja	sindhuja@newprinceshribhavani.com	9487707274
5.	Ms.Vijayakumari G	vijiece@newprinceshribhavani.com	9566000811
6.	Ms.Subathra S	subathrarao11@gmail.com	9003022065
7.	Ms.V. Hemamalini	hemamalini@newprinceshribhavani.com	9952038433
8.	Ms.Karthika S	karthika@newprinceshribhavani.com	9566267985

9.	Ms.C.R.Eldin Jeeva	eldinjeeva@newprinceshribhavani.com	8508660966
10.	Ms.S.Sivagami	sivagami.s@newprinceshribhavani.com	9943011150
11.	Ms.K Blessing Christiana	blessingchristiana@newprinceshribhavani.com	9962184596
12.	Ms.S.Ananthi	ananthi@newprinceshribhavani.com	9944254027
13.	Dr.S.Parthasarathy	spsarathy_au@yahoo.co.in	9884363350
14.	Mr.A.Sekar	hodcivil@newprinceshribhavani.com	9884129959
15.	Dr.S.Sendhil kumar	sendilkumar@newprinceshribhavani.com	9994074972
16.	Ms.S.Sivakami	sivakami@newprinceshribhavani.com	9445183103

### List of Basic Level Innovation Ambassadors

S.No.	Faculty Name	E-Mail ID	Contact Number
1.	Dr. C.F.Theresa Cenate	theresacenate.cf@newprinceshribhavani.com	9840642826
2.	Dr.N.Kalyana Sundaram	nksundar@newprinceshribhavani.com	9790839151
3.	Dr.M.Prakash	prakash.m@newprinceshribhavani.com	9444709357
4.	Dr.R.Ahila	ahila.r@newprinceshribhavani.com	9486453814
5.	Dr.S.Vidhya	vidhya.s@newprinceshribhavani.com	9444069002
6.	Dr.S.Senthil kumar	senthilkumar@newprinceshribhavani.com	9489818324
7.	Dr. P.B.Edwin Prabhakar	edwinpb@newprinceshribhavani.com	9942792583
8.	Mr.P.Parthiban	parthiban@newprinceshribhavani.com	9791055672

### Faculty mentorship (External)

S.No.	Name of the Faculty Mentor	Idea Title	Lead Name	College Name
1.	Mr.Gowri Shankar D	Design of Embedded Board for Anti Theft Systems for two wheelers	Divyapriya S	Coimbatore Institute of Technology
		Automated E-car using Machine Learning (ML) Technology	Darshan M R	Sri Eshwar College of Engineering

### Faculty mentorship (Internal)

S.No.	Name of the Faculty Mentor	Idea Title	Lead Name	Status
1.	Ms.M.I.Anju	Water quality monitoring and controlling system	Kousalya L	<b>Not Shortlisted</b>
2.	Mr.C.Ventesha Perumal	Development of dual purpose manual weeder	P.Janakiraaman	<b>Not Shortlisted</b>
3.	Ms.Kavitha P	Voice prescription - an app for doctors	Kavya.H	<b>Shortlisted for Stage-2 evaluation</b>
4.	Dr.G.Durgadevi	Dementia patient tracking and monitoring system	K.Selvarani	<b>Not Shortlisted</b>

5.	Dr.M.Sindhuja	Automatic bus fare collection system for metropolitan cities using gps and rfid technology	Elakkiya T	<b>Not Shortlisted</b>
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### Incubation Units

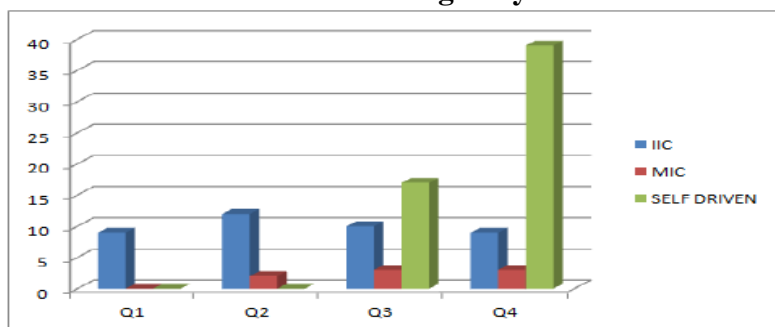
**Name of the Incubation Center:** NEBI

S.No.	Name of the Faculty Incharge	Designation
1.	Mr.Gowri Shankar D	Innovation Centre- HEAD
2.	Dr.G.Durgadevi	Design Centre- HEAD

### I&E and IPR activities Conducted

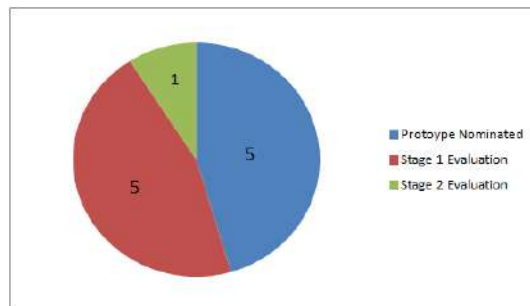
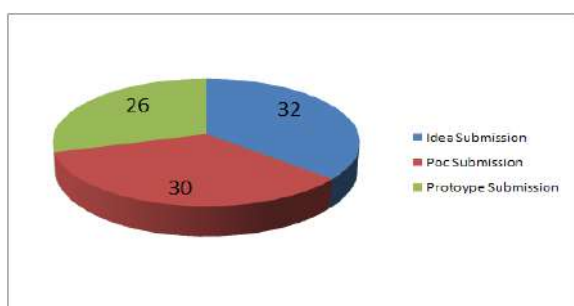
We have a strong team to coordinate ourselves in organizing IIC calendar activities in a stipulated time period. All the co-ordinators and IIC members will be engaging the students to participate in the activities conducted within the campus. Before starting the first activity in each quarter, a meeting will be arranged with the IIC council members, just to plan the activities for the particular quarter.

**IIC calendar activities conducted during the year 2020-21:**



### National Innovation Contest status

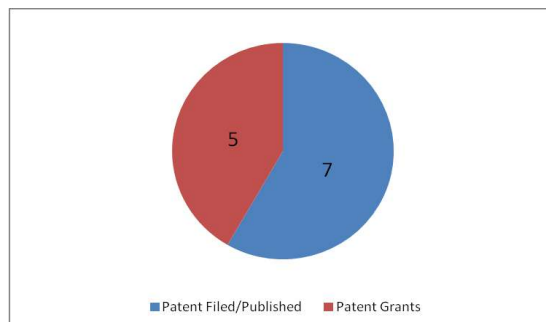
For the National Innovation contest 2020, nearly 32 ideas have been submitted, 30 PoCs have been selected for the next stage, out of which 26 prototypes have been processed for the final stage.





### Patents Filed/Published

During the 2020-21 academic year, our faculty members showed more interest in turning their research prototypes into IPs and get published as patents. Nearly 5 patents have been published and 7 have been awarded as grant.



### TOYCATHON 2021

Our college is nominated as a NODAL CENTRE for organizing the TOYCATHON 2021 DIGITAL EDITION 22nd, 23rd, 24th June 2021. A total of 15 Teams participated in our nodal centre for Toycathon 2021, some of the themes like Theme : Indian History, Knowledge of India and Ethos, Theme : Divyang, Theme : Environment, Theme : Social and human values, Theme: Fitness and sport, Theme : Learning, Education and Schooling.

### ARIIA – Participation and Rank

Our college has participated in the category of ‘Private or Self-Financed College/Institutes’ in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2018, ARIIA 2019 and ARIIA 2020.

### NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation

Our college successfully formulated the NISP- National Innovation and Start-up Policy and we are now in the implementation stage. We have the same team of IIC members for the NISP implementation to accomplish the action plan prescribed by the MIC.

### Details of Social Media & Connections of IIC institute

Mr.P.Parthiban, Assistant Professor of ECE, NPSBCET is the Social media Co-ordinator. He has a good team of student network who creates forums and shares the poster activities. The social media connection plays a vital role in bringing a good fame to our institution as well as to the IIC activities linked to that.



<https://www.facebook.com/npsbcetofficial/>



[https://www.instagram.com/newprinceengg\\_official/](https://www.instagram.com/newprinceengg_official/)



<https://www.twitter.com/newprinceengg>

## Testimonials from IIC members about IIC institute and IIC of MoE's Innovation Cell

### Advance level Innovation Ambassadors

#### 1. Mr. Gowri Shankar D, IIC Convener

As an IIC Convener, thanking each and every one for their tireless effort for the mark set up by our college in the IIC ranking of the SRO region last year. Our college was listed among the TOP 5 IIC institutes of the SRO region. Our institute is selected as a mentor institute to support two different institutes to promote IIC activities in their institutions. Same flourishment will be continued to keep the pride of our college in the upcoming year also



*R. Shankar*

#### 2. Dr. G. Durgadevi, SIH Co-ordinator

I really feel happy and proud to be a part of our Institute Innovation Council (IIC). The activities gave an insight about entrepreneurship and start-ups. And it also motivated us to provide a platform for young student innovators to become entrepreneurs.



### 3. Dr.P.K.Chidambaram, ARIIA Co-ordinator

“Ignite The Spark of Innovative Ideas Brings out to Young Minds” as they are the Future of our Nation.

I am very delighted about our institute IIC Activities.



### 4. Dr.Sindhuja M, NISP Co-ordinator

IIC is making me explore various dimensions in terms of research and innovation.

It gives me a clear path in implementing NISP at my institution.



### 5. Ms.Vijayakumari G

Institution's Innovation Council (IIC) in our college premises promotes different activities related to innovation, IPR, start-ups and entrepreneurships. IIC to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in formative years.



### 6. Ms.Subathra S

Institution's Innovation Council (IIC) creates awareness among students about Entrepreneurship. IIC in our college helps students to experiment latest technologies to get some prototype for building their confidence.



### 7. Ms. Hemamalini V

Institution's Innovation Council (IIC) promotes innovation and entrepreneurship culture among the students. The events organized by IIC nurtures entrepreneurial skills for the student innovators.



### 8. Ms.Karthika S

IIC had created awareness among students about entrepreneurship and helped to develop their own ideas and innovation skills. It promotes students to be successful entrepreneurs.



S. Karthika.



### 9. Ms.C.R.Eldin Jeeva

The IIC in our college encourages, inspires and nurtures young students by supporting them to work with new ideas. It creates awareness among students about Entrepreneurship. From this students learn how to grow into a successful entrepreneur.



*C.R. Eldin*

### 10. Dr.S.Sivagami

The Institutes Innovation council elevates students skills in innovations and entrepreneurship skills. Our college encourages and motivates the students to become entrepreneurs.



*S. Sivagami*

### 11. Ms.K Blessing Christiana

The Institution Innovation Council (IIC) helps to create innovative ideas and encourages students to develop entrepreneurship skills. The events organized by our college IIC had made the students to build their skills, encourage, inspire, motivate them to be an entrepreneur and help to achieve the goals.



*Blessing Christiana*

### 12. Ms.S.Ananthi

The Institutes Innovation council of our college encourages the entrepreneurship spirit and motivates the students towards innovation start ups. The sessions organized by IIC provide better insight about the developmental stages of start-ups for the students to become a successful entrepreneur.



*Ananthi*

### 13. Dr.S.Parthasarathy, NIRF Co-ordinator

IIC plays a vital role in nurturing budding Engineers to be self employed. All the sessions organized by them in this regard was very much useful to them and will develop them as successful entrepreneurs. Similar to adding the feather to a cap, I can tell that, IIC of our college also organizes various events related to entrepreneurship and encourage our students to become a successful entrepreneur.



*Parthasarathy*

#### 14. Dr.S.Sendhil Kumar

The sessions conducted by IIC were helpful and eye opener for innovation and entrepreneurship. As an academician I have learned lot about start-up policy, IPR and Business plan.



#### 15. Dr.P.Sridevi Ponmalar

IIC creates awareness among students about Entrepreneurship and helped to develop their own ideas and innovation skills. From this students learn how to grow into a Successful Entrepreneur.



#### 16. Mr.S.Sivakami

IIC was an eye opener for a person wanting to be an entrepreneur, learning the steps, methods, processes which are presently available to incorporate & successfully run a organisation, self-learning process to answer the assignments lead to knowing several thing which was not known to me earlier. I am thankful to IIC & our college for giving me an opportunity to learn these mandates.



### Basic level Innovation Ambassadors

#### 1. Dr.N. Kalyana Sundaram

The scope of IIC is to initiate some ideas and a vibrant local transformation system. It is the gateway of young talenters to suggest and perform a possible direction of activities. IIC was upgrading day by day with their fields. This also has a 360 degree learning technique which includes problems identification, solutions, conceptual ideas and innovation development. The IIC activities were helpful to youngsters for achieving their creativity.



#### 2. Dr.M.Prakash

The IIC session was helpful and motivating as it provided an insider's viewpoint on the nuances of innovation and entrepreneurship. With immensely beneficial insights about various aspects of innovation and



entrepreneurship. The IIC session was helpful for the institution as it gave all the relevant information to set up an incubator within the premises of the institution.

### 3. Dr.R.Ahila

In higher education institutions, entrepreneurship learning is used to promote education for sustainable development .Institution's Innovation Council (IIC) creates awareness among students about innovation and entrepreneurship. The IIC meeting was useful and propelling as it gave an insider's perspective on the subtleties of development and entrepreneurship.



### 4. Dr.S.Vidhya

The primary aim of IIC is to nurture,encourage and motivate young students by supporting them to work with new ideas and transform those ideas into prototypes right from the institute level. I am happy to be part of the Institute InnovationCouncil.



### 5. Dr.S.Senthil kumar

The Main aim of IIC is to mentor and spread awareness on fostering innovation at Institute level. The Activities of Ill care to organize and submit reports on various activities such as innovation, IPA Start-ups and EDP related activities. I really feel happy and proud to be a part of our Institute Innovation Council (IIC),so with this experience, I would able to understand about innovation, start-ups, Entrepreneurial knowledge by attending the sessions through NPSBCET-IIC.



### 6. Dr. P.B.Edwin Prabhakar

I thoroughly enjoyed the IIC Session. Excellent presentations by the speakers and ensured everyone felt comfortable. Deep insight, understanding of the program and fantastic connection. It has given me a brief knowledge and confidence to know about innovation and Entrepreneurship.



### 7. Mr.P.Parthiban, Social Media Co-ordinator

It was a great opportunity for me to expose myself to the new things which are in need of the hour. I learned new dynamics of innovation in detail from dawn to dusk. On the whole it was good and I urge the IIC to





conduct more programmes in future.

**Head of the Institute's Message**

**Dr.T.Saravanan, Principal, IIC President, NPSBCET**

IIC of our institute plays a vital role in shaping the creativity and entrepreneurial skills among the students. Now the faculty members and students are very much aware about the IIC activities and its impact in creating an innovative idea or PoC to a prototype and then thereby turning the prototype into a successful start-up. Now, the students are in the grooming stage to develop their own start-ups. Soon start-ups count may increase in near future.



*Bama*

Special thanks to AICTE and MIC for promoting innovation, entrepreneurship and start-up at the institution level.



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## **Mission 3: Achieving Academic Excellence by Imparting Knowledge and Skills through Problem Solving, Practical Training and Design & Development of Innovative Projects.**

New Prince Shri Bhavani College of Engineering and Technology achieving academic excellence by imparting knowledge and skills through problem solving, practical training and design & development of innovative Projects. Our institution organized New Prince Internal Hackathon 2020 as a preliminary event for Smart India Hackathon – SIH 2020. Nearly 29 teams submitted their ideas for software edition and 24 teams submitted their ideas for the hardware edition. The students presented their ideas corresponding to the problem statements available in SIH 2020 website. The first round of New Prince Internal Hackathon 2020 was organized on 09/01/2020. All the 53 teams presented their ideas on that day. Mr.L.Naveen Prasad, Vice-Chairman, NPSBCET, Dr.G.Durgadevi, Head, Department of Electronics and Communication Engineering, NPSBCET and Dr.C.Meenakshi, Head, Department of Computer Applications, NPSBCET were the jury members. They assessed the student's presentation and selected 14 teams in software edition and 8 teams in hardware edition. The next round was conducted on 22/01/2020.

All the 22 teams presented their ideas. The jury panel consists of Dr.Muruganandam, Principal, Sri Venkateswara College of Engineering and Technology, Chennai along with the Dr.T.Saravanan, Principal, NPSBCET. Suggestions and feedback were given by the jury panel to the students to enhance their presentation. Out of 14 software teams 10 teams and out of 8 teams 5 teams were selected for the next round. The final round of New Prince Internal Hackathon 2020 was organized on 25/01/2020 at NPSBCET. Mr. P. C. Praveen Kumar, CEO, Appstar Global Pvt. Ltd., Chennai and Mr. Manikandan Gopinathan, Senior Associate, Cognizant were present in the Jury panel. All the 15 teams presented their ideas and out of the 10 teams of software edition, 5 final teams and 2 teams were wait listed. From the 5 teams of the hardware edition, 2 teams were selected for the finals and 2 were waitlisted. The jury panel assessed the teams based on their road map for implementation of their idea, impact and conceptualization, innovation and their presentation. More than 50 projects were submitted to Smart India Hackathon 2018 and 2019. Two projects selected under the hardware edition in the year 2018 and one project under software edition in the year



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2019. **New Prince Internal Hackathon** was conducted by our institution and more than 16 projects were submitted. Out of that one project was selected under hardware edition.

## SMART INDIA HACKATHON – SIH 2020







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A project of ECE department selected for the **Intel Rapid Prototype Camp and Innovation Festival** held on 16<sup>th</sup> April & 17<sup>th</sup> April, 2016 at Indian Institute of Science, Bangalore.







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Two projects of IV Year ECE had been selected for the **Intel Rapid Prototype Camp and Innovation Festival** from 3<sup>rd</sup> October, 2016 to 6<sup>th</sup> October, 2016, held at Reva University, Bangalore.





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Three projects were selected by TNSCST (Tamilnadu State Council for Science and Technology) under the category of Student Project Scheme in the year 2018 and two projects in the year 2019 under the same category. Various grants like seminar grant conference grant and grants for activities like popularization of science among students have been received by the faculties. **Technology Exhibition 2020 cum Training Programme,CTDT,Anna University, Sponsored by DST** and organized by Centre for Technology Development and Transfer, Anna University, Chennai.







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A batch of three students of ECE department has been selected for the **Tamil Nadu Student Innovators 2019 Award- IDEATION Program** organized by Centre for Entrepreneurship Development (CED), Anna University, Chennai and Entrepreneurship Development and Innovation Institute (EDII, Govt. of Tamilnadu)

Our Institute was shortlisted for **Utkrisht Sansthan Vishwakarma Awards (USVA)** organized by AICTE, New Delhi.





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Two of our college projects were shortlisted for **Chhatra Vishwakarma Awards (CVA)** organized by AICTE, New Delhi.







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A project from ECE department was selected to exhibit in the **Chennai Science Festival 2019**, organized by Science City, Government of Tamilnadu.







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Industrial visits helps the students to interact with the industrial people and to learn the current technologies used in the industries.





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## **Mission 4: Sensitizing Students to Social and Environmental Issues.**

At NPSBCET, we put stock in giving comprehensive openness and training to the students. The Institution unequivocally accepts that everything is laid out in values and truth. This implies that the Institution, students, laborers and the country overall can foster through nothing else except for just the qualities, freedoms and honesty. We trust in preparing the students with teaching their obligations and obligations towards the general public and the Nation also. Thus by sharpening students on our established privileges, values, obligations and obligations is one of the essential instructions given at the foundation through different means, similar to events, activities, guest lectures, workshops, competitions, etc. These are coordinated through different clubs and committees in the Institution. The NSS unit takes up the vast majority of the obligations towards this drive.

Refinement of students and workers of the Institution to the sacred commitments is finished through educational plan as well as through extra-curricular exercises. Subjects like Human rights and Professional ethics are accessible in the prospectus and students realize those subjects in an excited way and practice them in their lives. Esteem added courses are likewise taken up on these points and understudies are instructed on the morals, values and convictions.

The NSS group works on arranging occasions on issues connected with discrimination, drug abuse, child labour, equality, corruption, road safety, health and food security rights, so on. Different exercises like convention, mindfulness camps in towns, drawing contests, banner making rivalries, and so forth, are coordinated including volunteers. Students additionally take up drives in gaining from these and furthermore rehearsing in their everyday exercises.

The Women Empowerment Committee centers around orientation issues and women's rights. The board of trustees guarantees equivalent privileges for women and sorts out different educational meetings for women employees. The council includes in bringing solidarity among the students and guarantees a superior living society in the college.



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The panel likewise teaches male students on safeguarding and esteeming womanhood. Teaching men on Women freedoms is supposed to be more significant, which is taught in our college.

## Blood Donation Camp:



Dec 15, 2021, 10:31



Dec 15, 2021, 10:35





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## Drug Awareness Camp:





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## Eye Testing Camp:







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## Tree Plantation:







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## Lake Cleaning Camp:



## Yoga Day Celebrations:







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## COVID19-Cause, Effects and Awareness of Corona Virus-Webinar (09/09/2020)

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**Youth Red Cross**  
organizes

Webinar ON  
COVID19-Cause, Effects and Awareness of CoronaVirus

09 September 2020  
@10am

Speaker  
**Mr. SREEDHAR S,**  
Senior Software Developer,  
Uniq Technologies,  
Chennai.

Hosting on:  
**Zoom**  
<https://us02web.zoom.us/j/848515527149>  
Meeting ID: 848 51 55 2714  
Password: 1styear  
**YouTube**  
<https://tinyurl.com/npsbyoutube>

**Thiru K.Loganath**   **Mr.L.Navin Prasad**   **Mr.A.Swaminathan**   **Dr.T.Saravanan**  
Chairman   Vice Chairman   Director   Principal

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**Youth Red Cross**

Corona Awareness -  
Distribution Of Masks, Use Of Hand wash

22 September 2020

**Thiru. K.LOGANATHAN**   **Mr. L. NAVEEN PRASAD**   **Mr. A. SWAMINATHAN**   **Dr. T.SARAVANAN**  
CHAIRMAN   VICE CHAIRMAN   DIRECTOR   PRINCIPAL

Venue  
Vengaivasal Village



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**Youth Red Cross**  
Organises  
Webinar ON  
Awareness Program on Gender Equity-Webinar

23 November 2020  
@10am

Speaker  
**Ms. SAMYUKTHA,**  
System Engineer,  
INFOSYS,  
Chennai.



Hosting on  
  
<https://us06web.zoom.us/j/848515527149>  
pwd=ak11oVRmRzRoTHJKWEVwOEn6amp3dz09  
Meeting ID: 848 5155 2714  
Passcode: 1styear

  
<https://tinyurl.com/npsbyoutube>

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## Beach Cleaning Camp:







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## Hygiene Awareness Programme to School Students







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## Go Green in Government School:



## Road Safety Awareness:





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## Adult Literacy Program:







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## **Mission 5: Inculcating Discipline in Students and Make Them Technologically and Ethically Strong.**

The students are aware of the Vision and Mission of the NPSBCET. The Code of Ethics policy is available in the institution website. Various Awareness session and Programmes are organized to make the students ethically and technologically strong.

## **Awareness Programme on ethical behavior in campus and Impacts of ragging in campus:**

The poster features a colorful geometric background in shades of blue, purple, and pink. At the top left is the college logo. The text is centered and reads: 'New Prince Shri Bhavani College of Engineering and Technology' followed by accreditation details. Below this, it says 'Antiragging Committee Organizes' and 'Awareness Program On Ethical Behaviour in Campus & Impacts of Ragging in Campus'. At the bottom, three green boxes provide the date (11th February 2021), the organizer (Mr. L. Naveen Prasad, Vice-Chairman, New Prince Group of Institutions), and the venue (Conference Hall).

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**Antiragging Committee**  
Organizes

**Awareness Program**  
On  
**Ethical Behaviour in Campus &  
Impacts of Ragging in Campus**

Date:  
11<sup>th</sup> February  
2021

By  
**Mr.L.Naveen prasad**  
Vice -Chairman  
New Prince Group of Institutions

Venue :  
Conference Hall



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## Awareness Programme on Issues of Ragging Culture:

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Tambaram-Velachery Main Road, Santhosapuram, Chennai-600 073

## Antiragging Committee

Organizes

**Awareness Program**  
On  
**Issues of Ragging Culture**

Date: 04 <sup>th</sup> March 2022	By <b>Mr.K.Thiru.Loganathan</b> Chairman New Prince Group of Institutions	Venue : Conference Hall
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## Awareness Programme on Effects and Impacts of Ragging:



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## Antiragging Committee

Organizes

### Awareness Program

On

### Effects and Impacts of Ragging

Date: 08 <sup>th</sup> August 2018	By <b>Ms.V.S.Mahalakshmi</b> Secretary New Prince Group of Institutions	Venue : Conference Hall
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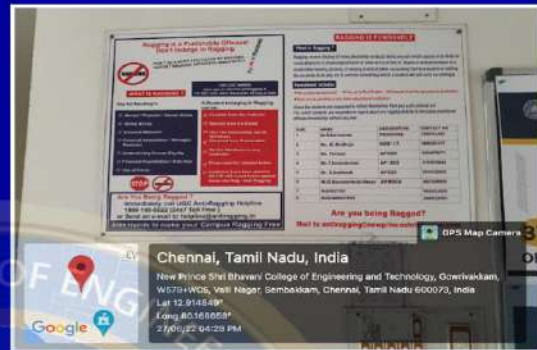
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## New Prince Shri Bhavani College of Engineering and Technology

### Ragging Free Campus / Students Dress Code at Laboratories



### Ragging Free Campus



### Ragging Free Campus



### Students Dress Code at Laboratories