



# New Prince Shri Bhavani College of Engineering and Technology

Affiliated to Anna University | ISO 9001:2015 Certified | Accredited by NAAC  
Tambaram-Velachery Main Road, Santhosapuram, Chennai-600 073



**INSTITUTION'S  
INNOVATION  
COUNCIL**

(Ministry of Education Initiative)

**IIC ANNUAL REPORT  
2020 - 21**



## **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**

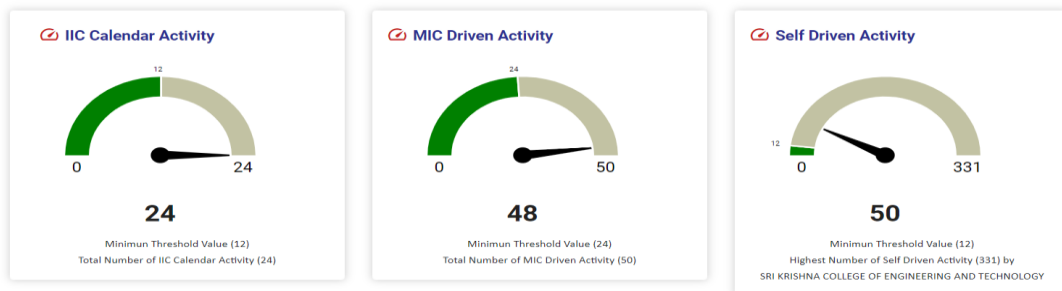
#### **NPSBCET Performance during the year 2018-2019**

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

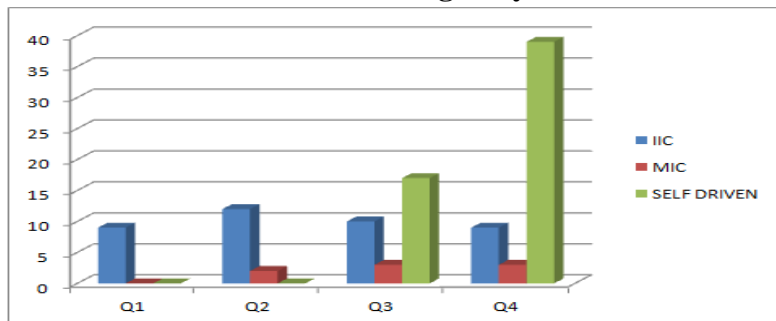
**Name of the Incubation Center:** NEBI

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

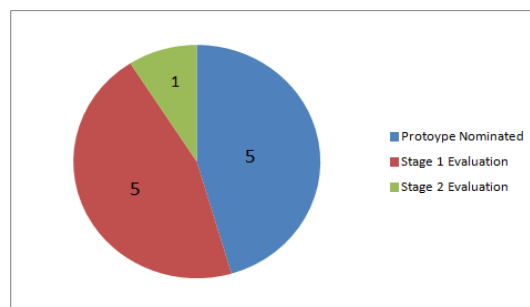
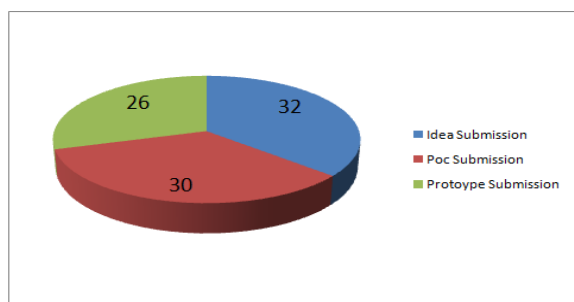
We have a strong team to coordinate ourselves in organizing IIC calendar activities in a stipulated time period. All the co-ordinators and IIC members will be engaging the students to participate in the activities conducted within the campus. Before starting the first activity in each quarter, a meeting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



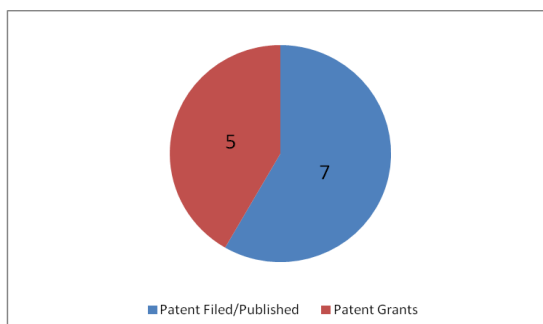
### National Innovation Contest status

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



#### 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 entrepreneurs. 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.



**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.



**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.



#### 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.



Sridevi

#### 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.



S. Sivakami

### Basic level Innovation Ambassadors

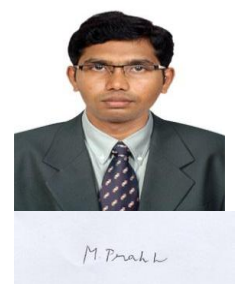
#### 1. Dr.N. Kalyana Sundaram

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.