



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution		Dr.T.Saravanan
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04422780404
Mobile no.		9884232271
Registered Email		principal@newprinceshribhavani.com
Alternate Email		npsbprincipal@newprinceshribhavani.com
Address		Vengaivasal Main Road, Gowrivakkam
City/Town		Chennai
State/UT		Tamil Nadu
Pincode		600073

<b>2. Institutional Status</b>	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr .G.Durgadevi
Phone no/Alternate Phone no.	04422780303
Mobile no.	9789970460
Registered Email	hodece@newprinceshribhavani.com
Alternate Email	durgadevi.karthik@gmail.com

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://newprinceshribhavani.com/wp-content/uploads/2020/12/AQAR-2018-2019.pdf">https://newprinceshribhavani.com/wp-content/uploads/2020/12/AQAR-2018-2019.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://newprinceshribhavani.com/wp-content/uploads/2021/01/Academic-Calendar-2019-20.pdf">https://newprinceshribhavani.com/wp-content/uploads/2021/01/Academic-Calendar-2019-20.pdf</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.52	2017	30-Sep-2017	30-Sep-2022

<b>6. Date of Establishment of IQAC</b>	22-Dec-2013
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<b>7. Internal Quality Assurance System</b>
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Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
One Day Seminar	09-Nov-2019 1	60
One Day Seminar	18-Apr-2020 1	15
Nineteenth IQAC Meeting	18-Apr-2020 1	15
Eighteenth IQAC Meeting	25-Jan-2020 1	16
Seventeenth IQAC Meeting	12-Oct-2019 1	15
Sixteenth IQAC Meeting	18-Jul-2019 1	15
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
V HEMAMALINI	STUDENT PROJECT SCHEME	TNSCST	2020 90	7500
S PARTHASARATHY	STUDENT PROJECT SCHEME	TNSCST	2020 90	7500
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

IQAC of NPSBCET is actively involved in maintaining quality within the institution.

IQAC encourages students to take part in technical and creative activities in addition to the classroom Teaching and laboratory practices by making them occupied in industrial projects, industrial visits and in-plant training, internship. Publishing their innovative research ideas in referred journals.

Creation of awareness and enhance the ecological practices so as to conserve water, power etc, and keep the campus Eco-friendly.

Motivated the students to take part in different extracurricular activities like Sports, NSS, YRC and activities like seminar, conference, symposium, Professional Society and other club Activities.

Motivational and Career guidance training Programmes were arranged to strengthen the confidence level of students to pursue their higher studies and for better placement.

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### 13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
To improve the quality of Engineering Education system	Many faculties registered for the courses offered by NITTR under SWAYAM.
To encourage faculties for NPTEL translation	Many faculties were selected as a NPTEL translator under their respective domain.
To encourage eco-friendly activities	Received certificate of appreciation as "Clean and Green campus" by AICTE.
To encourage the student participation in R&D activities	1) One project was selected by "Smart India Hackathon 2019 -Hardware Edition" organized by MHRD, Government of India. for the next level 2) Two student projects were got selected under the Students Project Scheme and received a grant of Rs. 7500/project from (Tamilnadu State Council for Science and Technology) TNSCST.3) One of our faculty have received best SPOC award by NPTEL.
To receive funds from Government funding agencies	1) 2 projects were selected under student project scheme by TNSCST and a grant of Rs.7500 is received for each project
To Increase department oriented certification programs for students	Online Certification courses like Coursera, ICT Academy, edX were done by the students and faculties.

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Name of Statutory Body</th> <th style="width: 50%; text-align: center;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Governing Council of NPSBCET</td> <td style="text-align: center;">25-May-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Governing Council of NPSBCET	25-May-2019
Name of Statutory Body	Meeting Date				
Governing Council of NPSBCET	25-May-2019				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	02-Sep-2017				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	05-Mar-2019				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>The Management Information System of our Institution namely CMS - College Management System consists of five operational modules. The CMS database and software is located in a central server in the Administrative office and is accessible via the local Intranet of the college. Each faculty of the Institution are assigned separate user ids thereby enabling them to enter all Student related data individually. It consists of the following modules.</p> <ul style="list-style-type: none"> <li>• Student Module consisting of the basic database of students with details like Name, Register Number, Department, Application number, Academic year, Admission Date, Admission Number, Previous academic details, Admission mode, Fee details, Address, Parents Details, Blood group, etc.</li> <li>• Details of College Tuition Fee, Hostel fee, Exam fee collected from students every year,</li> <li>• Student daily attendance details entry with facility to generate monthly attendance reports</li> <li>• Details of students for whom Transfer Certificate is issued and follow up details about their current occupation</li> <li>• Timetable for Regular classes, Exams</li> <li>• Staff details like Name, Date of Birth, Date</li> </ul>				

of Joining, Department, Designation, Qualification, Previous employment in other colleges and Industries, Publication of papers in National and International Conferences, Patents applied / granted, Seminars and Workshops attended, etc. • Generation of reports like Student strength, Performance analysis in the Continuous Assessment Exams, etc.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

NPSBCET is affiliated to Anna University, Chennai. It follows the curriculum prescribed by the university. To enhance the learning of students beyond the curriculum so that they can satisfy the technology development and global challenges, several co curricular activities are included in the academic planning. Different committees such as Governing council, Academic advisory committee, Class committee, course committee and project review committee, are constituted to enhance the teaching learning process and look after the administration and academic procedures as per the norms stipulated by AICTE and affiliating university. The committee meetings are held periodically and suggestions are provided to improve the overall performance of the students and for improving the attainment of PEOs and POs. Based on the committee report appropriate corrective measures will be taken related to effective curriculum delivery and proper documents.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Programming with MATLAB	-	13/07/2019	8	Employability	Nil
Course on eSim	-	21/09/2019	8	Nil	Skill Development
Solar Energy	-	07/02/2020	8	Entrepreneurship	Nil
Innovation: From Creativity to Entrepreneurship	-	04/01/2020	8	Entrepreneurship	Nil
Digital Product Management: Modern Fundamentals	-	13/07/2019	8	Nil	Skill Development

Essential characteristics and benefits of Cloud Computing	-	03/08/2019	8	Employability	Nil
Building our chatbots	-	05/10/2020	8	Employability	Nil
Professional course on finite element analysis using Ansys	-	06/07/2019	8	Employability	Nil
Engine development and Testing	-	05/10/2019	8	Nil	Skill Development
Product Design	-	09/11/2019	8	Entrepreneurship	Nil
Course on fire and safety techniques	-	07/12/2019	8	Employability	Nil
International Construction Law	-	10/08/2019	8	Nil	Skill Development
Real Estate and Urban Infrastructure	-	07/09/2019	8	Employability	Nil
Construction contractors	-	08/02/2020	8	Entrepreneurship	Nil
Project Planning, Scheduling, Monitoring and Evaluation	-	22/02/2020	8	Nil	Skill Development
Cloud Computing	-	06/07/2019	8	Nil	Skill Development
Deep Learning	-	07/09/2019	8	Entrepreneurship	Nil
Machine Learning	-	14/09/2019	8	Nil	Skill Development
s/w defined storage concepts	-	12/01/2020	8	Nil	Skill Development

Steps for Entrepreneurship	-	05/10/2019	8	Entrepreneurship	Nil
Introduction to Web Designing	-	20/07/2019	8	Employability	Nil
Embedded System	-	17/08/2019	8	Employability	Nil
Entrepreneurship and Small Business Management	-	02/11/2019	8	Entrepreneurship	Nil
Ethical Hacking	-	08/02/2020	8	Nil	Skill Development
Mobile Application Development	-	10/08/2019	8	Entrepreneurship	Nil
Internet of Things	-	12/10/2019	8	Nil	Skill Development
Web Application Development	-	04/01/2020	8	Entrepreneurship	Nil
Personality Development	-	15/02/2020	8	Employability	Nil

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	-	Nil
<a href="#">View File</a>		

### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	EEE	03/06/2019
BE	ECE	03/06/2019
BE	CSE	03/06/2019
BE	MECHANICAL	03/06/2019
BE	CIVIL	03/06/2019
BTech	IT	03/06/2019
ME	AE	03/06/2019
MCA	MCA	03/06/2019

### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

Certificate	Diploma Course
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Number of Students

677

Nil

**1.3 – Curriculum Enrichment**

## 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Mobile Application Development	06/07/2019	137
Internet of Things	05/10/2019	95
Inverter UPS servicing	04/01/2020	21
NS-2 and NS-3 Implementations for Wireless Sensor Networks	08/12/2019	68
Build an Arduino Robots and Devices	05/01/2020	55
Course on Manufacturing materials and process	22/06/2019	36
Course on Machine design	10/08/2019	48
Course on Welding technology	19/10/2019	31
Course on Mechanical CAD	28/12/2019	21
Quantity Survey and estimation	06/07/2019	8
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## 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	EEE	54
BE	ECE	201
BE	CSE	150
BE	MECHANICAL	136
BE	CIVIL	18
BTech	IT	121
MCA	MCA	34
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**1.4 – Feedback System**

## 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?  
(maximum 500 words)

Feedback Obtained

The effectiveness of faculty members in content delivery and assessment are evaluated through the centralized online student feedback system at the end of every semester. Based on the feedback score, individual faculty is counselled and guided by the Head of the Department and Academic advisory committee. Feedback is also obtained from stakeholders for checking the fulfilment of the vision, mission and objectives of the Institution. The curricular gap is identified through Alumni feedback and is informed to the Advisory committee for incorporating those skills to students. Based on the feedback received from recruiters and experts from Industry, different value added courses and Skill development programme are planned subsequently.

**CRITERION II – TEACHING- LEARNING AND EVALUATION**

**2.1 – Student Enrolment and Profile**

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
ME	AE	18	9	2
BTech	IT	60	45	33
BE	MECHANICAL	60	29	23
BE	EEE	60	20	5
BE	ECE	60	40	22
BE	CSE	60	60	46
BE	CIVIL	60	4	3

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**2.2 – Catering to Student Diversity**

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	132	2	67	6	30

**2.3 – Teaching - Learning Process**

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
99	99	14	16	8	4

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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

When the students are stepped into our institution, they are made to adapt the friendly environment and bridging the gap between school and college. Mentors are appointed for a batch of 15 to 20 students to monitor the student's discipline and enable the parents to know about the performance of their wards. Respective Mentors monitor and guide their students in various aspects like curriculum, extra curriculum, mental and health issue, personal guidance. The process is a continuous one till the completion of course of the student.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
132	99	1:10

**2.4 – Teacher Profile and Quality**

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
99	95	4	4	9

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	2	Associate Professor	LIONS CLUB INTERNATIONAL, CHENNAI
2019	1	Professor	LIONS CLUB INTERNATIONAL, CHENNAI
2019	4	Assistant Professor	LIONS CLUB INTERNATIONAL, CHENNAI

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**2.5 – Evaluation Process and Reforms**

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MCA	MCA	EVEN/JUNE 2020	22/09/2020	18/10/2020
ME	SE	EVEN/JUNE 2020	22/09/2020	18/10/2020
ME	AE	EVEN/JUNE 2020	22/09/2020	28/11/2020
BTech	IT	EVEN/JUNE 2020	22/09/2020	28/11/2020
BE	MECHANICAL	EVEN/JUNE 2020	22/09/2020	17/10/2020

BE	EEE	EVEN/JUNE 2020	22/09/2020	17/10/2020
BE	ECE	EVEN/JUNE 2020	22/09/2020	28/11/2020
BE	CSE	EVEN/JUNE 2020	22/09/2020	18/10/2020
BE	CIVIL	EVEN/JUNE 2020	28/09/2020	18/10/2019
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#### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

For effective implementation of Continuous Internal Evaluation (CIE) system at the institutional level, Guidelines of IQAC and submission of AQAR for Affiliated/Constituent Colleges Page 4 the institute conducts two unit tests and One Model Test per course per semester. The question papers for the CIE are set by Internal Faculty members and are scrutinized by Head/Senior Faculty Members. The question papers conform to Our Institution benchmarks for Bloom's level of learning. 40 Questions in test for UG Programmes (60 for PG Programmes) should relate To HOTS (Higher order thinking skills) of Bloom's taxonomy. The answer scripts are given back to the students after evaluation for their information, providing sufficient transparency and accountability.

#### 2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Every year academic calendar for the institute and also a department wise for smooth functioning. This academic calendar contains the semester start date, the dates of academic related activities like guest lecture, seminar, workshop, symposium, conference etc., and also it contains the conduct of examination dates and other activities. The academic calendar is displayed on the institute website and also shares with the head of the departments so as to ensure proper execution. By considering the academic calendar, each department functions according to the teaching plan prepared at the department level.

### 2.6 – Student Performance and Learning Outcomes

#### 2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://newprinceshribhavani.com/electronics-and-communication-engineering/>

#### 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
103	BE	CIVIL	8	8	100
104	BE	CSE	38	38	100
105	BE	EEE	14	14	100
106	BE	ECE	48	44	91.66
114	BE	MECHANICAL	36	36	100
205	BTech	IT	19	19	100
401	ME	AE	3	3	100

413	ME	SE	10	10	100
621	MCA	Nil	Nil	Nil	100
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://newprinceshribhavani.com/wp-content/uploads/2020/12/2.7.1-SSS.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	300	TNSCST	0.15	0.15
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### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Workshop on Recent Trends in Electrical Engineering	EEE	29/06/2019
Simulation Study on Solar PV Systems	EEE	30/07/2019
Workshop on Power Electronics used for Renewable Energy Systems	EEE	10/08/2019
Electric Crane System- A Methodical Engineering Solution	EEE	02/09/2019
Workshop on Data Center Power Distribution	EEE	09/03/2020
Workshop on Bio Electricity and its Applications	EEE	14/05/2020
Webinar on Realization of Career Pathway in Electrical and Electronics Engineering	EEE	22/05/2020
Seminar on Zero energy building	CIVIL	16/03/2020
Workshop on Building information and Modelling	CIVIL	27/02/2020
Workshop on Building Planning and Drawing	CIVIL	05/03/2020
Workshop on The Era of Data Science	CSE	26/07/2019

Workshop on Journey to the Cloud (AWS)	CSE	30/08/2019
Workshop on The Then ... Now Future of Cyber Security	CSE	07/02/2020
Workshop on Cloud Based Architecture	CSE	13/03/2020
Seminar on Block Chain in Healthcare	CSE	17/07/2019
Seminar on Machine Learning application	CSE	25/09/2019
Seminar on Block chain in Cyber Security	CSE	04/12/2019
Seminar on Different roles in data science industry	CSE	03/02/2020
Seminar on Career Guidance for Engineering	IT	10/08/2019
Seminar on Cyber Security	IT	02/11/2019
Seminar on Machine Learning	IT	04/01/2020
Two days workshop on Recent Technologies in IT	IT	12/07/2019
Two days workshop on Artificial Intelligence in Health care Applications	IT	12/08/2019
One day workshop on The Power of Technology in 2020 and Beyond	IT	24/06/2020
Workshop on 5G	ECE	17/04/2020
Workshop on Block chain	ECE	08/02/2020
Workshop on Cyber Security	ECE	12/07/2019
Workshop on Artificial Intelligence	ECE	20/09/2019
Seminar on IoT	ECE	16/05/2020
Seminar on Recent Trends in Teaching Methodology	ECE	03/03/2020
Seminar on future trends in Electronics	ECE	23/10/2019
Seminar on Robotic Process Automation(RPA)	ECE	28/06/2019
Seminar on Design of Jigs and fixtures of various engineering components	MECHANICAL	10/08/2019
A seminar On Engineering Graphics"	MECHANICAL	10/09/2019

Seminar on Air Brake Suspension System of Automobiles	MECHANICAL	05/10/2019
Workshop on 3d Printing and Design Manufacturing	MECHANICAL	23/11/2019
Workshop on Recent Research and Innovations	MECHANICAL	21/12/2019
Workshop on How To Crack Aptitude Other Competitive Exams	MECHANICAL	21/01/2020
Workshop on utilization of CAD/CAM software's in an Industries	MECHANICAL	10/02/2020
Seminar of IPR for innovators	MECHANICAL	05/03/2020

### 3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NPTEL Course on Internet of Things	Ms. Sindhuja M	NPTEL	10/10/2019	NPTEL Course on Internet of Things
NPTEL Course on Internet of Things	Ms. Anitha S	NPTEL	10/10/2019	NPTEL Course on Internet of Things
NPTEL course on Cloud Computing	Ms. Arul Jothi K	NPTEL	10/10/2019	NPTEL course on Cloud Computing
BEST SPOC	Ms. G. Vijayakumari	NPTEL	04/11/2019	BEST SPOC
NPTEL TRANSLATOR	Ms. R Pushparama	NPTEL	11/09/2020	NPTEL TRANSLATOR
NPTEL TRANSLATOR	Dr. G Durgadevi	NPTEL	11/09/2020	NPTEL TRANSLATOR
NPTEL TRANSLATOR	Ms.V Hemamalini	NPTEL	11/09/2020	NPTEL TRANSLATOR
NPTEL TRANSLATOR	G.Vijayakumari	NPTEL	11/09/2020	NPTEL TRANSLATOR
NPTEL TRANSLATOR	Mr. D Gowrishankar	NPTEL	11/09/2020	NPTEL TRANSLATOR
NPTEL TRANSLATOR	Ms. K Aruljothi	NPTEL	10/10/2019	NPTEL TRANSLATOR

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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nil

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### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
1000	245541	0

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NIL	Nil

#### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	EEE	9	0
International	IT	5	0
International	MECH	2	0
International	ECE	4	6.03
International	CSE	7	0

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#### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
ECE	2

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#### 3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Investigation of Lung Cancer using GLCM with CT Scan Images	Dr. G. Durgadevi	Journal of Advanced Research in Dynamical and Control Systems	2019	1	New Prince Shri Bhavani College of Engineering and Technology	Nil
Wearable and Implantable Medical Devices	Dr. G. Durgadevi	Elsevier	2019	1	New Prince Shri Bhavani College of Engineering and Technology	Nil
Vision Machine	Dr. G. Durgadevi	Journal of	2020	1	New Prince	Nil



Learning for Detection of Ocular Pathologies from Iris Images		Discrete Mathematical Sciences and Cryptography			Shri Bhavani College of Engineering and Technology	
Screening and Early Identification of Microcalcifications in Breast using Texture-based ANFIS Classification	Dr. G. Durgadevi	Wearable and Implantable Medical Devices	2020	1	New Prince Shri Bhavani College of Engineering and Technology	1
Vision based Detection and Categorization of Skin lesions using Deep Learning Neural networks	Dr. G. Durgadevi	Procedia Computer Science	2020	1	New Prince Shri Bhavani College of Engineering and Technology	1
Predicting Cardio Vascular Disease as a Long-Term Diabetes Complication Using SOM	K Rajathi, R Asmetha Jeyarani, K Blessing Christiana ,T Vijaya Vahini	International Journal Of Recent Technology And Engineering (IJRTE)	2020	0	New Prince Shri Bhavani College of Engineering and Technology	Nil
Comparative analysis of dual input DC-DC Converters for hybrid power systems	Parthasarathy.S, Shanithini.K , Arivuselvi.R, Thenmozhi.P	International Journal of Innovative Technology Exploring Engineering.	2019	0	New Prince Shri Bhavani College of Engineering and Technology	Nil
Smart irrigation systems	Parthasarathy.S, Arun.T, Harisharan.S,	International Journal of Innovative	2019	0	New Prince Shri Bhavani	Nil

	Lakshmanan .D	Technology Exploring Engineering		College of Engineering and Technology
<a href="#">View File</a>				

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Smart irrigation systems	Parthasarathy S	International Journal of Innovative Technology Exploring Engineering	2019	2	5	New Prince Shri Bhavani College of Engineering and Technology
Comparative analysis of dual input DC-DC Converters for hybrid power systems	Parthasarathy S	International Journal of Innovative Technology Exploring Engineering.	2019	2	5	New Prince Shri Bhavani College of Engineering and Technology
Comparative analysis of dual input DC-DC Converters for hybrid power systems	Shanthini. K	International Journal of Innovative Technology Exploring Engineering.	2019	1	Nil	New Prince Shri Bhavani College of Engineering and Technology
Comparative analysis of dual input DC-DC Converters for hybrid power systems	Arivuselvi. R	International Journal of Innovative Technology Exploring Engineering.	2019	1	Nil	New Prince Shri Bhavani College of Engineering and Technology
Comparative analysis of dual input DC-DC	Thenmozhi. P	International Journal of Innovative Technology Exploring	2019	1	Nil	New Prince Shri Bhavani College of Engineering

Converters for hybrid power systems		Engineering.				g and Technology
Vision based Detection and Categorization of Skin lesions using Deep Learning Neural networks	Dr. G. Durgadevi	Procedia Computer Science	2020	1	1	New Prince Shri Bhavani College of Engineering and Technology
Screening and early identification of microcalcifications in breast using texture-based ANFIS classification	Dr. G. Durgadevi	Wearable and Implantable Medical Devices	2020	1	1	New Prince Shri Bhavani College of Engineering and Technology
Vision machine learning for detection of ocular pathologies from iris images	Dr. G. Durgadevi	Journal of Discrete Mathematical Sciences and Cryptography	2020	1	Nil	New Prince Shri Bhavani College of Engineering and Technology
Wearable and Implantable Medical Devices	Dr. G. Durgadevi	Elsevier	2019	1	Nil	New Prince Shri Bhavani College of Engineering and Technology

[View File](#)

**3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :**

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	330	5	2

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**3.4 – Extension Activities**

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Cyber Crime	ROTARACT CLUB	1	100
Blood Donation Camp	NSS	40	70
COVID 19 Awareness Online Quiz Programme	NPSBCET	2	3190
<a href="#">View File</a>			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Tamil Essay	M. Sudha	Youth Red Cross	1
<a href="#">View File</a>			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
General Awareness	Rotaract Club	Cyber Crime	1	100
Unnat Bharat Abhiyan	NSS	Blood Donation Camp	40	700
General Awareness	NPSBCET	COVID 19 Awareness Online Quiz Programme	2	3190
<a href="#">View File</a>				

**3.5 – Collaborations**

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Margadharsan scheme (AICTE)	New Prince Shri Bhavani College of Engineering and Technology (SPOC)	Sri Sairam Engineering College, Chennai (MENTOR) AICTE	8
ICT Support	National Testing Agency & TCS	National Testing Agency TCS	8
<a href="#">View File</a>			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering	Duration From	Duration To	Participant
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		institution/ industry /research lab with contact details			
Internship	C# Net	Wise Tech Source Pvt. Ltd	24/06/2019	28/06/2019	1
Internship	Energy Conservation	Airo Pleasant	23/05/2019	29/06/2019	15
Internship	PLC SCADA	Prolific Systems Technologies Pvt. Ltd	23/05/2019	29/06/2019	17
Internship	PCB Design	Signals and Solutions	22/11/2019	14/12/2019	9
Internship	PCB Design	Signals and Solutions	23/12/2019	11/01/2020	5
Implant training	Analysis and design of building	Ruby builders construction	25/11/2019	29/11/2019	4
Internship	Python	DLK Technologies	27/06/2019	29/06/2019	10
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
National Gears	24/02/2020	Circuit Breaker Assembling	52
Sri Sairam Engineering College	22/11/2019	AICTE Margadharsan scheme	10
<a href="#">View File</a>			

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
8300000	7652384

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Laboratories	Existing
Seminar Halls	Existing

Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Classrooms with Wi-Fi OR LAN	Existing
No file uploaded.	

#### 4.2 – Library as a Learning Resource

##### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Auto Lib	Fully	8.2	2019

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	21295	1368123	2340	122250	23635	1490373
Reference Books	389	175050	47	17678	436	192728
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##### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
-	-	-	Null
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#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	500	11	373	1	0	8	8	0	0
Added	0	0	0	0	0	0	0	0	0
Total	500	11	373	1	0	8	8	0	0

##### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

10 MBPS/ GBPS
---------------

#### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Recording facilities, Media Center, Lecture capturing system, ICT enabled class rooms	<a href="http://www.newprinceshribhavani.com">www.newprinceshribhavani.com</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
800000	843360	1700000	1845281

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

<p>The Development Section maintains the infrastructure facilities. A dedicated team of electricians, plumbers, carpenters and other personnel provide round the clock service to departments and hostels. The maintenance team of Management takes care of all of the remaining functions like water supply, cleaning, garbage collection, proper disposal of waste, maintenance of lawns etc. In every department one of the staff members is assigned to oversee the laboratories and equipment etc. He /She is responsible for safe and smooth maintenance of the equipment, and facilities. Log book is maintained to ensure entries and problems if any. The Heads of the Departments supervise all the facilities. The infrastructure facilities like back up diesel generator electricity in case of Government power failure is available for academic building and other critical areas. Adequate security measures are at place at all the campuses to ensure safety and security of residents. Annual Maintenance Contract (AMC) is entered into for most of the services and equipment.</p> <p><a href="https://newprinceshribhavani.com/procedures-and-policies/">https://newprinceshribhavani.com/procedures-and-policies/</a></p>
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### CRITERION V – STUDENT SUPPORT AND PROGRESSION

#### 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	MERIT	703	5402500
Financial Support from Other Sources			
a) National	ADI DRAVIDAR TRIBAL WELFARE SCHOLARSHIP, FIRST GENERATION GRADUATE	505	24245000
b) International	0	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability	Date of implementation	Number of students	Agencies involved
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enhancement scheme		enrolled	
Guidance for Competitive Examinations (FACE TRAINING PROGRAM)	08/07/2019	205	FACE
Aptitude training	19/02/2020	86	P.Kavitha, AP/CSE Department placement co ordinator, P.Parthiban, AP/ECE Department placement coordinator
Aptitude training	10/02/2020	16	Mrs.K.Shanthini Assoc.Prof./EEE -Department Placement Coordinator
Aptitude training	10/06/2019	49	Mr.C.Venatesharaj aperumal, AP/Mech Department placement co ordinator
Remedial coaching	29/07/2019	245	Concerned subject handling faculty
Bridge Courses	14/08/2019	50	Conducted by Science and Humanity Department, NPSBCET
Yoga	21/06/2019	700	Brahma Kumaarigal
Becoming an Effective Communicator	06/06/2020	55	Conducted by ENGLISH Department, NPSBCET
Personal Counselling (Mentoring)	08/08/2019	700	MENTORS
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	Mock GATE Test conducted by T.I.M.E Institute, Chennai	185	Nil	Nil	200
2019		122	Nil	Nil	Nil



	"Orientation Program on Civil Services examination by Mr. A. Ramesh Aditya, Head-Strategy, Shankar IAS Academy, Chennai"				
2019	"Motivational Speech by Dr. Nappinnai Seran, Consultant Psychologist and Marital Therapist, Meenakshi Medical College and Research Institute, Enathur, Kanchipuram"	Nil	70	Nil	Nil
2019	"Motivational Speech by Mr. M. Ravikumar, Deputy Director of Regional Outreach Bureau, Ministry of Information and Broadcasting, Government of India"	Nil	66	Nil	Nil
2019	"Motivational Speech by Dr. Nappinnai Seran, Consultant Psychologist and Marital Therapist, Meenakshi Medical College and Research Institute, Enathur, Kanchipuram"	Nil	75	Nil	Nil

	Institute, Enathur, Kancheepuram"				
2020	Seminar on Higher Studies in Abroad	Nil	105	Nil	Nil
2020	Webinar on What to do, after graduation? by Mr. Velmurugan, Director & Founder, Fabevy Technologies, Chennai	Nil	139	Nil	Nil
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
S.S Group of Companies, Avasoft, Shiash Info Solutions, Ridsys, Pulsars, Brillapp Software, Hinduja Global Solutions, KRG Technologies, Sutherland, CSS Corp., WindCare Pvt Ltd, Nitty Fish Network Pvt Ltd, Q spiders, HDFC LIFE,	1737	184	TCS	1149	26

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.E	Computer Science and Engineering	LOYOLA COLLEGE, Chennai	M.B.A HUMAN RESOURCE MANAGEMENT
2020	1	B.E	Mechanical engineering	University of Bedfordshire	M.B.A
2020	1	B.E	Mechanical engineering	Wroclaw University of Science and Technology	M.S

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Civil Services	1
Any Other	2

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Table Tennis 2	Anna University Zone	60
Volley Ball 2	Inter Department	50
Basket Ball 2	Inter Department	50
Chess 2	Inter Department	25
Table Tennis 2	Inter Department	25
Badminton 2	Inter Department	25
Cricket 2	Inter Department	50
Athletics 2	Inter College Level	200
Technical Symposium 2	Inter College Level	250
CULTURAL EVENTS 2	Inter College Level	446

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**5.3 – Student Participation and Activities**

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the	National/	Number of	Number of	Student ID	Name of the
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	award/medal	International	awards for Sports	awards for Cultural	number	student
2019	Volley Ball - Gold	National	2	Nil	41141711 4306, 4114 17114301	SARAVANAN G, AJAY KUMAR K
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Yes, Institute has Student Council. Student's council provides an opportunity to students to develop their leadership skills through active participation in college administration and students collaboration. The student council is expected to perform following functions: 1. Discipline and decorum in the college. 2. Mutual contact, democratic outlook, and spirit of oneness among students 3. Social harmony among all students and to work towards their cultural and academic development. 4. Close and cordial relations between students and faculty 5. Leadership quality among students and a consciousness of the college, to equip them for becoming responsible citizens. 6. Self-reliance, service to the people and duty towards development of the nation. The following committees have student representatives: Anti-Ragging Committee Sports Committee NSS Committee Alumni Association Anti-Sexual Harassment Cell Annual Magazine Committee

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes, the institution has registered Alumni Association. The Alumni association of New Prince Shri Bhavani College of Engineering and Technology has been registered under the Tamil Nadu Societies Registration Act, 1975 (Tamil Nadu Act of 27 of 1975) at Chennai South on 27 April 2017. The association provides a forum for the Alumni for exchange of ideas on academic, cultural and social issues of the day by organizing and coordinating reunion activities of the Alumni. The association has the following members as its constituents: President, Secretary, Treasurer, Executive members.

5.4.2 – No. of enrolled Alumni:

1793

5.4.3 – Alumni contribution during the year (in Rupees) :

20000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Association organizes regular meetings and has formal and informal interactions wherein any Alumnus is free to give views/ suggestions. Alumni Association meet is conducted every year with the association members to discuss regarding the alumni meet. The Alumni meet is conducted every year on the graduation day.

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization is the heart of Institution. We believe in equitable

distribution of the work on the basis of interest and potential of the human resources. The institution functions with the help of various committees Academics as well as non academics. In all these committees, Key Responsibility Area is clearly defined and stated for the individuals to understand their roles and responsibilities. Under these committees student representatives also play a significant role. Rather right from the preparation of the Academic Calendar, their opinions are considered. While distributing the committees to the students, their opinions are considered. There is a strong bonding which is established between Management, Faculties and Students through Decentralization of work. The hierarchy of the institution includes Top Management followed by Director then Principal followed by Coordinator. Major responsibilities such as ISO, IQAC, NSS are having different coordinators to ensure proper justice to the duties. The institution runs Value Education course which is also governed by one of the faculties who acts as coordinator to that course. Administration of the institution is totally decentralized. The institution has constituted different committees to execute different functions like admissions, academic activities, examination, management of library etc. There is constant interaction among the functional units of all the committees. Various committees and bodies constituted for smooth educational and administration work are as follows The following are the committees which have nominated faculty members and student members to contribute towards the growth of the institute. 1. Academic Monitoring Committee 2. Time Table Committee 3. Class Coordinator 4. Women's Grievance Cell 5. Placement Cell/ Coordinators 6. ISO, IQAC Coordinators 7. Sports Monitoring Committee 8. Hostel Monitoring Committee 9. Transport Committee 10. Discipline Monitoring Committee 11. Women Empowerment Cell These committees have been established to facilitate Participative management practices and to ventilate their perceptions to take constructive decisions. All the above mentioned committees include Faculty and Students. They work hand in hand and carryout the working of the committees successfully. Committees comprise of the in charge and other staff members and students. They design and work out the academic programs. They are given freedom to chalk and plan their activity in a creative way for conducting the curricular and cocurricular activities. Due to this decentralization work is distributed equitably and effectively completed.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Examination and Evaluation	Every semester three Internal Assessment tests and one model examination is conducted. Three set of question papers is given by the faculty and the valuation is done in the valuation hall. The progress of the students is reported to their parents through SMS. The Internal Assessment marks obtained by the students are uploaded in the Anna University web portal. Slow learners are supported by giving remedial classes. Faculty members are honored for 100 result achievement in University results.
Library, ICT and Physical	The Library is positioned in a

Infrastructure / Instrumentation

spacious hall of 4500 square feet with fully Digitized system for accessing the books. There are more than 20,000 volumes of books available for usage. Online Public Access Catalogue (OPAC) facility is followed and all the transactions are automated in order to save the precious time of the students. The Library functions from 8.30 am to 7.00 pm everyday and 9.00 am to 1.00 pm on Sundays. Apart from books and journals, more than 1500 e-journals are available. The Digital Library has 184 NPTEL video courses and 20 computers with internet for exploring online learning materials. Library also gets all the leading news papers and regularly subscribes to weekly, monthly magazines on general topics and self development areas. The Library is renovated and facilities has been increased.

Industry Interaction / Collaboration

Through the placement cell, various job fairs and HR summits are conducted for the benefit of Institutional partners. Through the MoUs signed with various industries, Industrial visits, Internship programs are arranged for the students. Experts from these industries are invited and interactive sessions with the students are arranged.

Human Resource Management

The performance of the faculty is assessed yearly through self appraisal reports and appropriate recommendations are made by the Head of the Department. Student redressal and Grievance cell is actively functioning inside the college. Appropriate recruitment of teaching and non-teaching staff by the management in approved / leaves vacancies to ensure smooth functioning of the Institution.

Curriculum Development

As the Institution is an affiliated under Anna University, Chennai, the curriculum and syllabi of the affiliated University are adapted. In addition to the syllabus prescribed in Anna University regulations, the students are offered lectures in content beyond the syllabus towards imparting core and technical concepts relevant to their course. As part of curriculum development, students are encouraged to perform mini projects and working models. In-house exhibitions to exhibit their technical knowledge.

<p>Teaching and Learning</p>	<p>The teaching and learning process is also reviewed by the head of the department and the feedback is communicated to the faculty members of concerned. Faculty members are supported to attend FDPs, STTPs, seminars and workshops for obtaining strong knowledge in their area. NPTEL materials, which contain video lectures given by eminent professors, are provided for student access in the library. Bridge courses are offered to the first year students and lateral students to understand the basics of engineering subjects.</p>
<p>Admission of Students</p>	<p>UG (B.E. / B.TECH) 65 of the seats by Government Quota (GQ) admission through Tamilnadu Engineering admission (TNEA) by the State Government of Tamilnadu.35 of the seats Management Quota (MQ) filled through Consortium of SelfFinancing Professional, Arts and Science Colleges of Tamilnadu. PG (MCA) 50 of the seats by Government Quota (GQ) admission through Tamilnadu Common Entrance Test (TANCET) by the State Government of Tamilnadu. 50 of the seats Management Quota (MQ) filled through Common Entrance Test, conducted by Consortium of Self Financing Professional, Arts and Science Colleges of Tamilnadu. M.E Minimum 35 of the seats filled under Government Quota (GQ) admission through Tamilnadu Engineering Common Admission (TANCET) Test by the State Government of Tamilnadu. 65 of the seats Management Quota (MQ) filled through Common Entrance Test conducted by Consortium of Self Financing Professional, Arts and Science Colleges of Tamilnadu.</p>
<p>Research and Development</p>	<p>Publication of project work in a national or international conferences paper or in a reputed journal is compulsory for the PG students. Separate funds have been allotted in the budget every year for the purpose of procuring research equipment. Around 15 faculty members are pursuing Ph.D. at various universities. Planning to get more number of funded projects and patents. Faculty members are participating and presenting research articles in leading journals and conferences. Faculty members are motivated to publish their research papers in reputed journals (SCI</p>

journals and Scopus indexed) and a cash incentive is also offered by the management.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Student Admission and Support	The details about the college is made available in the website. Student's database is maintained through CMS software. Online feedback system from the students and the other stake holders is obtained. NPTEL videos can be accessed in the library. e-journals and e-books can be accessed in the library through Delnet software
Administration	Online leave requisition system for faculties is available. The CMS software maintains all the details about the students and staff members for immediate access at any time. Each faculty of the institution are assigned separate user ids thereby enabling them to enter all student related data individually in CMS software. All the day to day activities of the institution are uploaded in the institution website. All the communication to the faculties is sent through email. Bio metric attendance system is maintained for the faculties.
Finance and Accounts	Maintenance of the college accounts is done through software. This helps to maintain and save the records for the future reference and to imply effective financial management.
Planning and Development	Sending circulars and meeting agendas through email rather than printing and distributing them. From tge college administration software, complete financial statements can be obtained. These statements are used for the discussions related to planning and development in Board of Governance meetings. This helps in the proper functioning of the institution.
Examination	Online marks entry system for daily class tests and internal assessment is done periodically. Daily test question papers and question banks for individual subjects are shared through student's social media groups.The University examinations (Theory and practical) of 3 hours duration shall ordinarily be conducted during November and December months (odd semester) and also during April and May (even



semester) oEach course, both theory and practical (including project work viva voce Examinations) shall be evaluated for a maximum of 100 marks.oFor all theory and practical courses including project work, the continuous internal assessment are carried out for 20 marks while the EndSemester University examinations marks of 100 marks has been converted to 80 marks. The credit based system is followed and students CGPA are computed for awarding grades.A candidate can apply for revaluation / photocopy of his/her semester examination answer paper in a theory course, within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examination. A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Mr.S.Santhosh	NPTEL- Introduction of Internet of things	Nill	1000
2019	Ms.G.B.Sanathi	NPTEL- Introduction of Internet of things	Nill	1000
2019	Ms.G.B.Sanathi	National conference on Recent Advances in Science, Engineering and Management	Nill	1000
2019	Ms.K.Rajamani	International E- conference onEl ectricalcommuni cation and computing	Nill	1000
2019	Ms.Anita Sofia Liz	NPTEL- Introduction of Internet of things	Nill	1000
2019	Ms.M.I.ANJU	NPTEL-	Nill	1100

		FDP/DIGITAL IMAGE PROCESSING		
2019	Mr.D.GOWRISHA NKAR	International Journal for Research in Applied Science Engineering Technology , UGC Journal "Early Detection of Disease in Arachis hypogea Leaves by using ML Techniques"	Nil	1500
2020	Ms.M.I.ANJU	International Journal of Advanced Science and Technology"A Novel Method for the Compression Of Gigapixel Image using CORDIC Algorithm"	Nil	3000
2019	S.Parthasarathy	Published the paper " Smart Irrigation Systems" in International Journal of Innovative Technology and Exploring Engineering	Nil	12000
2019	Ms.Sindhuja M	Nil	CSI(Computer Society of India)	4720
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Recent Advancement in Construction Technology	Nil	10/02/2020	15/02/2020	50	Nil

2020	Nil	Testing Techniques for Soil Properties	11/03/2020	12/03/2020	Nil	10
2019	6 days FDP ON ARTIFICIAL INTELLIGENCE	Nil	09/12/2019	14/12/2019	20	Nil
2019	Six days FDP on Research and Methodology - Tools and Techniques	Nil	02/12/2019	17/12/2019	23	Nil
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Foundation, Fluid.Mechanics. and Structural Engg.	3	11/05/2020	15/05/2020	8
Energy Conservation and Management	2	04/05/2020	08/05/2020	8
Machine Learning and its impact on IT	1	22/04/2020	24/04/2020	8
Be gentle with mind and body	1	30/04/2020	30/04/2020	8
LATEX	3	27/04/2020	01/05/2020	8
MOODLE Managing System	1	01/05/2020	06/05/2020	8
Advanced C System	1	13/05/2020	14/05/2020	8
PYTHON 3.4.3	1	16/04/2020	22/04/2020	8
TOOLS EXPLORED IN DISRUPTIVE TECHNOLOGIES	1	11/05/2020	16/05/2020	8
Cyber forensics	1	20/05/2020	22/05/2020	8
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
99	99	20	20

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>• Employee Provident Fund for all employees.</li> <li>• Pension scheme with life insurance coverage.</li> <li>• Incentives for reputed publications done by the faculty members</li> <li>• Permission to pursue parttime Ph.D with On Duty.</li> <li>• Free Transport facility, Group Insurance</li> <li>• The management encourages the faculty members for pursuing Ph.D. program by</li> <li>• Providing adequate number of On duty leave.</li> </ul>	<ul style="list-style-type: none"> <li>• Free Transport facility, Group Insurance</li> <li>• Medical Leave Provision is given to the faculty and staff members based on the request.</li> </ul>	<ul style="list-style-type: none"> <li>Tuition fee concession to the economical backward students and sports</li> <li>• Cash incentive for the best Under Graduate project.</li> <li>• Assisting students for eligible government scholarships.</li> <li>• achievers.United India Insurance Policy (Students safety Policy)</li> </ul>

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The Institution conducts Internal and External audits (both academic and administrative audits) regularly. External Audit is conducted by an external auditing agency. An internal Audit Committee is formulated by IQAC with a Chairman, Chief Auditors and Auditors. The HODs and Senior Faculty Members will act as Chief Auditors and Auditors. The auditing committee will conduct both academic and administrative auditing at the end of every semester and submit a report to the Chairman of the Auditing committee. Based on the report appropriate corrective measures will be taken.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NPSBCET	50000	Symosium
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6.4.3 – Total corpus fund generated

50000
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**6.5 – Internal Quality Assurance System**

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	LMS (ISO)	Yes	IQAC

Administrative	Yes	LMS (ISO)	Yes	IQAC
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6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Parent Teachers meeting at the end of every semester. 2. Collecting feedback from parents (for the development/ improvement of infrastructure). 3. The queries posted by the parents are noted and would be solved in the imminent semesters. This meeting would facilitate the parents to convey their ideas for their wards better

6.5.3 – Development programmes for support staff (at least three)

1. Basic computer training to the supporting staff 2. Computer hardware and troubleshooting programs by computer faculties to the supporting staff 3. Awareness talk on health and hygiene for the supporting staff

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Participation in NIRF Submission of Data for AISHE portal ISO certification, IIC activities, ARIIA submission

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	One Day Seminar on "Importance of IIC in an institution The requirements "	09/11/2019	09/11/2019	09/11/2019	60
2020	One day webinar on Quality as a competitive lever	18/04/2020	18/04/2020	18/04/2020	60
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**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Seminar on Women Empowerment	16/06/2019	16/06/2019	32	29

Programme organised by the department of Electronics and Communication				
Women Equity Programme	15/12/2019	15/12/2019	18	19
Women's Mentoring Programme	27/09/2019	27/09/2019	5	Nil

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
20 through Solar Energy (3KW) 1 through Wind Energy (100 W)

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	1
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	56
Scribes for examination	Yes	Nil
Special skill development for differently abled students	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	04/07/2019	8	Village cleaning programme	Land pollution	25
2019	1	1	10/09/2019	8	Lake cleaning programme	Rain water harvesting	40
2019	1	1	21/09/2019	8	Dengue Awareness Program	Health care	25
2019	3	3	12/08/2019	8	Save our Water Bodies	Lake water contamination	21

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#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Handbook on Code of Conduct	08/07/2019	The handbook on code of conduct was released on 8th July, 2019. The institutional guidelines and the professional ethical values were mentioned in it. The book is shared with various stakeholders of NPSBCET

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Ek Bharat Shreshta Bharat Doubt	22/10/2019	22/10/2019	665
Vigilance Awareness Week 2019	04/09/2019	04/09/2019	654
Rashtriya Ekta Diwas-2019	31/10/2019	31/10/2019	663
Swachha Bharat Summer Internship Programme -2019	15/06/2019	15/06/2019	642
Jal Shakti Abhiyan	24/09/2019	24/09/2019	661
Fit India Movement	29/08/2019	29/08/2019	646
Rashtriya Ekta Diwas-2019	31/08/2019	31/08/2019	700

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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

The inmates of the college are very careful to keep the campus plastic free. Various clubs and forums are actively involved in the maintenance of ecological balance in the campus. The initiatives that have been put in place to promote the concept of 'reduce, reuse and recycle' contribute to protect the environment. The institute have the following eco friendly scenarios. They are

- Waste Segregation
- Waste Water Recycling
- Rainwater Harvesting
- C C Cameras
- Water Hydrants for fire safety
- Sprinklers for landscape and lawns.
- Tobacco Free

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

The faculties and students of different departments have established an eco-club at the institution level. The purpose of this club is to initiate a culture of environment concern at the stake-holders level. The eco-club has conducted varied activities such as campaign against banned carry bags, use of loud speakers, plantation drive, banned fire works, recycling of glass and metals, filling of water body in the adjacent area, use of unnecessary horns. The other activities are talk on biogas generation and usage, vehicular emission, and e-waste management. The college has began innovations to name few are students participation in IQAC, stake-holders participation through feedbacks, innovations in result analysis, creative learning methodologies, and as a part of orientation program the fresher's are taken round across the campus like labs, workshops, library to get awareness of facilities.

Department's specific innovations are introduced from different departments. The institution claimed best practices are quality of teachers and experimental learning as the best practices. Special study hours for Hostel students is one of the best practices of the college is to empower overall academic excellence and student's performance.

1. Objectives of the Practice
  - To monitor and motivate the students in learning and earn better grades in internal and external examinations.
  - To widen their subject knowledge with relevant guidance and enlighten their doubts with faculty instructors.
2. Intended Outcome
  - Improved performance of students in internal and external assessments
  - Fosters an environment of cooperative learning which identifies student's complexity and finds solutions to sustain improvement of the learning system.
3. The Context Students staying in hostel face a temporary detachment from their parents and relations. Hostel Study Hour has great advantages for the students.
4. The Practice
  - The hours for study are fixed. All the students are to abide by strict discipline.
  - The Faculty instructors engage hostel students at class rooms.
  - Individual attention will be provided to each student.

Sports: A sound mind in a sound body. In line with the above, to ensure that the students are relaxed and at the same time physically fit, to enable the student to practice any sport of his choice. Students representing the college teams also get motivated to practice their game.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://newprinceshribhavani.com/best-practices/>

## 7.3 – Institutional Distinctiveness

### 7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Our institution has incubator, TECHSUPERHUB (TSH) in collaboration with AppStar Global Pvt. Ltd., Chennai.

- The purpose of incubator is to make the students and young minds expert in latest technologies.
- The incubators are equipped with high end systems to perform real time applications.
- The Campus Connect Industry Collaboration Programme is being carried out on a regular basis.
- The incubator offers better working environment to Entrepreneurs.
- Certification Programmes on latest technologies like Big Data Analytics, Android Application Development, Internet of Things, and Artificial Intelligence and so on are being conducted.
- Creates job opportunities to young professionals in and out of the institution

"Uniqueness"- We always work towards our vision. The vision is to be unique in whatever we do. The uniqueness is incorporated in the terms of Career training academic progression, mentoring system. Career training At NPSBCET, students are given full freedom and opportunities to choose their career for their future accomplishment. Students are being separated based on



their interest of choice. Career guidance cell conducts career guidance programs for students who are interested in entering into public service jobs. Leading retired IAS personnel is invited to interact with students of NPSBCET.

The training sessions are mandatory for all the students. To be exposed on today's industry requirements, special lectures by experts have been organized every week. In order to perform well in placement examination, the college has invited leading organization, FACE to conduct aptitude classes for about six days. Apart from this, an expert on mathematics is invited to handle exclusive sessions on aptitude for students of all branches. Staffs and students are encouraged to prepare e-content development and video lectures. Staffs and students are motivated to do online courses via NPTEL, Coursera, edX, Udemy, Swayam, MOOC, GIAN etc., Academic Progression NPSBCET is one of the upcoming colleges in Chennai that excels in academic duties. The academic process is well structured and designed to enhance the success rate of passing percentage of the students of all branches. The students are monitored on a regular time period in order to check whether they possess technical knowledge and subject knowledge and are able to apply them at their workplace. Apart from their academic works, all students of various branches are exposed to acquire practical knowledge through their industrial visits, internships and project works. Mentoring At NPSBCET, all students who belong to various departments are suitably trained by industry experts to add value to their profession. The college prepares the students effectively and efficiently to excel in the corporate world. To achieve this, the students are given opportunities to interact with leading experts and professionals. Special training programs are organized on aptitude and attitude, interview techniques, mock interviews, technical areas etc., The college has MoU with INTEL through FICE to train the students and the member of the staff on technical areas. NSS activities in the institution National Service Scheme (NSS), is the Government's ambitious scheme to inculcate the sense of service, nationalism and humanity among youth.

Provide the weblink of the institution

<https://newprinceshribhavani.com/wp-content/uploads/2021/01/NPSBCET-INSTITUTIONAL-DISTINCTIVENESS.pdf>

## 8.Future Plans of Actions for Next Academic Year

This year, we plan to have more extension lectures, industrial interaction and industrial visits will be scheduled, so as to bridge the gap between classroom teaching and industrial requirements. Also, keeping in mind the high level of stress among youth, new activities would be planned for the mental well-being of the youth. More activities of Social Outreach would be organised like donation camps, blood donations, plantation drives, environment awareness events etc. Research workshops and special sessions are also planning to organise with the intention of familiarising individuals with the latest developments pertaining to research methods, technological evolution and research paper writing, thereby aiming at increasing the intellectual output of the institution. We plan to improve the ratio of Ph.D faculty members keeping in view the requirement of both Indian and International accreditations. Apart from increasing the activities in these regular areas, we plan to do the following additional things in the next academic session. We aim to publish more number of research papers in Indexed Journals listed in Web of Sciences, Scopus, UGC listed journals by its students and staff. We propose to register more number of patents and copy rights in the near future. More number of MoUs with industrial organization Apply for more research projects and seminar grants Encourage the research culture among the faculty Increase more number of professional bodies Pre-Placement Activities: Recycle-Reuse-Reduce: To improve the standard of living and revenue generation task for the existing adopted villages under Unnat Bharath Abhiyan and to empower the nearby villages.

