



## Yearly Status Report - 2016-2017

### Part A

#### Data of the Institution

1. Name of the Institution	NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution	Dr.P.Maniarasan
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04222380007
Mobile no.	9003936804
Registered Email	nietprincipal@nehrucolleges.com
Alternate Email	nietprincipal@gmail.com
Address	Thirumalayampalayam
City/Town	Coimbatore
State/UT	Tamil Nadu
Pincode	641105

<b>2. Institutional Status</b>																			
Affiliated / Constituent			Affiliated																
Type of Institution			Co-education																
Location			Rural																
Financial Status			Self financed																
Name of the IQAC co-ordinator/Director			Dr.A.Sivasamy																
Phone no/Alternate Phone no.			04222622007																
Mobile no.			9489212233																
Registered Email			nietiqac@gmail.com																
Alternate Email			a.sivasamy@gmail.com																
<b>3. Website Address</b>																			
Web-link of the AQAR: (Previous Academic Year)			<a href="http://nehrucolleges.org/aqar/Prequalified-SSR-NIET.pdf">http://nehrucolleges.org/aqar/Prequalified-SSR-NIET.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="http://www.nehrucolleges.org/NAAC/ACADEMIC%20CALENDAR%202016-2017.pdf">http://www.nehrucolleges.org/NAAC/ACADEMIC%20CALENDAR%202016-2017.pdf</a>																
<b>5. Accrediation Details</b>																			
<table border="1"> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> <tr> <td>1</td> <td>B++</td> <td>2.91</td> <td>2017</td> <td>09-Jun-2017</td> <td>08-Jun-2022</td> </tr> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B++	2.91	2017	09-Jun-2017	08-Jun-2022
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	B++	2.91	2017	09-Jun-2017	08-Jun-2022														
<b>6. Date of Establishment of IQAC</b>			14-Sep-2014																
<b>7. Internal Quality Assurance System</b>																			
<table border="1"> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date &amp; Duration</th> <th>Number of participants/ beneficiaries</th> </tr> <tr> <td>FDP on Art of Effective</td> <td>26-May-2017</td> <td>110</td> </tr> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries	FDP on Art of Effective	26-May-2017	110					
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries																	
FDP on Art of Effective	26-May-2017	110																	

Teaching	2	
FDP on Awareness on NAAC Accreditation Process	08-Nov-2016 5	110
No Files Uploaded !!!		

**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
Nil	Nil	Nil	2017 0	0
No Files Uploaded !!!				

**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)**

1. Regular Monitoring of Classes and laboratories 2. Student's Feedback and analysis mechanism through a proper format. 3.Students have been encouraged to involve in more number of NSS and social activities. 4. To impart confidence building and enhance leadership qualities using NOBLE training 5. Train the students in new technology as per industry requirement. 6. Academic audits for all programmes.

No Files Uploaded !!!

**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	Achievements/Outcomes
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To conduct orientation programmes for NBA / NAAC	FDP organized to orient faculty members				
To conduct Result Analysis for the various programmes and suggest corrective actions to the Departments	Implemented effectively				
Academic Audit	Academic Audit done periodically				
To implement outcome based education effectively	Outcome based Education is successfully implemented				
No Files Uploaded !!!					
14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <tr> <th>Name of Statutory Body</th><th>Meeting Date</th></tr> <tr> <td>Governing Council</td><td>19-Dec-2016</td></tr> </table>		Name of Statutory Body	Meeting Date	Governing Council	19-Dec-2016
Name of Statutory Body	Meeting Date				
Governing Council	19-Dec-2016				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	No				
17. Does the Institution have Management Information System ?	No				

## 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

Curricular aspects of courses for both UG and PG at Nehru Institute of Engineering and Technology are governed by Anna University, Chennai. However, the implementation part is taken scrupulously by the institution as per the academic schedule. Academic Calendar Institution calendar for the academic semester prepared based on the university calendar to ensure proper teaching-learning process, schedule of the internal test, university examinations etc., Department calendar is prepared in aligned with the Institution calendar to include department activities like seminars, workshops, guest lectures, symposiums, conferences, various club activities, industrial visit/training, value-added course, certification course etc. The excellence of Classroom teaching with Course Plan Meetings are held in each department to discuss the distribution of courses for upcoming academic sessions during the end of the semester. Based on individual faculty members experiences, the course is assigned to them by the head of the department. The individual faculty member prepares a course plan. It gives an insight into how the lecture class will be handled throughout the semester before commencing of each semester. The excellence of the classroom teaching depends on content delivery, interaction, discussion, examples, applications and usage of modern ICT tools. The role of the teachers is significant not only with contents but also with motivational

contributions of students through paper presentation, projects, group assignments, visit to various industries for better exposure. Instructional methods and pedagogical initiatives Institution practices outcome-based education while planning and delivering the content. Various Innovative Teaching & Learning methodologies are adopted by the faculty members to create the best learning environment for students. Teaching and Learning methodologies include traditional (Chalk and talk) and technology-enabled methods. Video lecturing is provided by faculty members to explain the real-world problems with industrial illustrations, design issues etc. Faculty members prepare the ematerials for the benefits of students by posting in Content Management System available in the college website. Faculty demonstrates static & working models, simulations, animations and implemented projects in the department. Invited expert lectures (industrialists/academicians) are arranged to deliver the content beyond syllabus for knowledge enhancement and value-added courses have been organized for bridging the gap between Industry and Academia. Tutorials/ E-learning classes are practised for participative learning. Assignments are given to improve the knowledge beyond the syllabus. Laboratory practices are mandatory Students are motivated for doing research work Monitoring system for curricular delivery HODs and IQAC coordinators are regularly monitoring the delivery of curriculum feedbacks have been taken from the students through online in a regular interval. Entrusting the teaching faculty with the task of mentoring 15-20 students on academic and personal issues. The class committee meeting is arranged where student representatives can express their difficulties. The outcome-based education focuses on effective curriculum delivery. The internal exams are designed to assess the attainments of the course outcomes. The academic audit is done by IQAC.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Real Time Inspection Maintenance of Aircraft Components	Nil	23/01/2017	30	Entreprene urship	Technical
Virtual In strumenttion using LABVIEW	Nil	19/12/2016	30	Employabil ity	Technical
Adnanced Welding Technologies	Nil	11/07/2016	30	Employabil ity	Technical
basics of computer applications	Nil	01/02/2017	30	Employabil ity	Technical

#### 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
Nil	nil	Nil
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##### 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	Nil	Nil

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

	Certificate	Diploma Course
Number of Students	563	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
3D life cycle product management	18/07/2016	104
JAVA Programming - SCULPTECLAT TECH Solutions Pvt. Ltd	13/02/2017	40
Lab View Programming	03/01/2017	110
Embedded system and Robotics	08/08/2016	243
Business Analytics	17/09/2016	32
Insurance Management	18/02/2017	32
No file uploaded.		

### 1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Aeronautical Engineering	189
BE	Computer science and Engineering	110
BE	Electronics and Communication Engineering	38
BE	Electrical and Electronics Engineering	115
BE	Mechatronics Engineering	120
BE	Mechanical Engineering	125
ME	Aeronautical Engineering	4
ME	Embedded System Technology	1
MBA	Nil	26
No file uploaded.		

## 1.4 – Feedback System

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

Students	Yes
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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

Institution has effectively implemented a structured feedback system for analyzing the curriculum which is completely developed by the affiliated university. The feedback is collected once in a year from the Students, Teachers, Employers and Alumni through online Google form which is hosted in the college website. The analysis of feedback will be done by the concerned department and the feedback report will be communicated to the affiliated university at the end of academic year to intimate the lack of curriculum to meet the current industrial trends and to include the real world problems. The analyzed feedback report is discussed in the department advisory committee meeting and the action taken to redress the suggestions expressed in the meeting is recorded in the minutes of meeting. As per the suggestions made by the department advisory committee members, same will be implemented in the next academic year by conducting seminars, value added courses, certification courses and motivating the students to undergo Industrial visit and internship to correlate the syllabus and to bridge the curriculum gap.

## 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
BE	Electrical and Electronics Engineering	60	60	41
BE	Electronics and Communication Engineering	120	72	60
BE	Computer Science and Engineering	60	60	60
BE	Aeronautical Engineering	120	110	97
BE	Mechatronics Engineering	120	91	71
BE	Mechanical Engineering	120	130	120
MBA	Master of Business Administration	60	45	36
ME	Aeronautical Engineering	24	8	6
ME	Communication	36	5	3

	<b>Systems</b>			
<b>ME</b>	<b>Embedded Systems</b>	<b>18</b>	<b>6</b>	<b>2</b>
<a href="#">View File</a>				

## 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
<b>2016</b>	<b>1811</b>	<b>143</b>	<b>146</b>	<b>29</b>	<b>13</b>

## 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	Number of smart classrooms	E-resources and techniques used
<b>175</b>	<b>175</b>	<b>19</b>	<b>55</b>	<b>5</b>	<b>9</b>

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

Mentoring system: The Mentor-Mentee ratio is decided on the basis of the strength of the students and faculty in the department. It is expected 1:15. Every day mentors will meet the mentees to discuss the performance of the mentees allotted during the mentor hour. After every Internal Assessment Test the mentors will meet their mentees and discuss about their performance in the Internal Assessment Test. After the announcement of results from the University End Semester Examination, mentor will meet their mentees and discuss about their Grade received in the University End Semester Examination. Mentees record book: For every mentees, the mentor will maintain a separate a record book to follow up all the activities of the mentees. Mentor Hour: Mentors use to meet their mentees on daily basis during the mentor hour allocated for every class. During the mentor hour the students will perform the activities such as role play, newspaper reading, technical talk, Group discussion etc., which would help to improve the overall personality of the students. Mentor Mentee Meeting: Mentor – Mentee meeting will be conducted after every Internal Assessment Test. Mentors will carry out the performance analysis of their mentees in the Internal Assessment Test and mentors will also discuss about the co- curricular and extracurricular activities participation in the value-added course, online certificate, workshop, seminar, conference, sports and cultural.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
<b>1954</b>	<b>175</b>	<b>1:11</b>

## 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
<b>193</b>	<b>175</b>	<b>Nil</b>	<b>28</b>	<b>27</b>

### 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
2016	S.Arunkumar	Assistant Professor	Appreciation Award from Shanthi Social Services
2016	L Krishnakumar	Assistant Professor	Blood Donation Award from National Service Scheme(NSS)
2016	Shalini Packiam Kamala	Professor	Human Excellence Award form Academy of Universal Global Peace
2016	Delight Mary	Associate Professor	Human Excellence Award form Academy of Universal Global Peace
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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
ME	431	III / II	29/10/2016	14/01/2017
ME	403	III / II	29/10/2016	14/01/2017
ME	424	I / I	22/12/2016	18/02/2017
MBA	631	I / I	04/04/2017	23/06/2017
BE	115	IV / II	04/04/2017	23/06/2017
BE	114	II / I	04/04/2017	23/06/2017
BE	105	VII / IV	29/10/2016	14/01/2017
BE	106	V / III	29/10/2016	14/01/2017
BE	104	III / II	29/10/2016	14/01/2017
BE	101	I / I	22/12/2016	18/02/2017
<a href="#">View File</a>				

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Institute is affiliated to Anna University, Chennai which follows the Examination pattern of the university. Anna University guidelines are strictly adhered to with respect to evaluation process. There are three Internal tests conducted. The schedules of internal assessments are communicated to students and faculty in the beginning of the semester itself through institute academic calendar which is prepared based on the university academic calendar. The institute has reformed the Continuous Internal Assessment (CIA) system from faculty centric to student centric. The Institute Exam cell framed guidelines for conducting the CIA in line with calendar of the Affiliate University and the Institutions. As per the guidelines, the following reforms have been

carried out effectively in conducting CIA: • Scheduling of Internal Examination, Seating arrangements, hall invigilators are listed in the notice board of respective allotted class to take up the examination. • Question paper set up will be prepared for the internal examination in the prescribed pattern based on Knowledge level using revised Bloom's taxonomy. • The question paper will be scrutinized by the Head of the Department (HoD) and ensure quality of the Question paper. • Monitoring the attendance of the students to take up Examination and Internal Assessment has to be carried out within the stipulated time. • After completion of the internal examination, the faculty evaluates the answer scripts of the students and it will be distributed to the students for any clarifications and performance of the individual candidate would be revealed. Internal marks are displayed on the notice board. • Review meeting will be conducted with result analysis and the remedy for further improvements are taken after discussion with faculty, HoD and Principal. • Upload of assessment marks in university web portal and subsequently communicated to parents. The evaluation for theory courses are assessed in direct mode ( 80) covering both internal and university examinations and indirect (20) covers survey. The evaluation for laboratory courses are assessed in the similar pattern as followed for theory courses. For each laboratory sessions, the student is assessed through viva questions and the performance in the observations work. The evaluation for project course are assessed by conducting periodical project reviews covering key parameters like problem formulations, understanding of the project, presentation skills, of 200 marks. The project review committee organizes review meetings to assess the progress of all the project batches. communication of ideas , technical knowledge , team work and project management. Major project consists of 200 marks. The project review committee organizes review meetings to assess the progress of all the project batches.

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

As an affiliated college, the Anna University calendar is adhered to. In addition to this, an Academic College Calendar is prepared and printed which contains a list of all the interactive and innovative programmes to be conducted by the college, both at the faculty and student level. Detailed schedules with dates are given for CAT, Model Examination, University practical examination and Project presentation. Students prepare for these examinations accordingly. The academic calendar is uploaded in the college website. An IQAC Calendar is also prepared which enumerates the academic programmes and activities for quality enhancement to be held in the college. The new programmes are to enable quality enhancement that are offered during the course of the year, these are availed for the benefit of the staff and students. The IQAC evaluates such activities during their meetings. It monitors all parameters right from attendance, (75 attendance is mandatory as per university rules), assignments, practical's / labs, internal tests. List of defaulter students are notified fortnightly and informed to the parents. Teachers are supposed to maintain course files of their subjects. All assignments are given in stipulated period of time, so that students could plan and complete the assignments in time. Parent teacher meeting date is also mentioned in the academic calendar. Faculty conducts lectures and practical's as per the timetable in alignment with the academic calendar. Exams and result declaration are strictly followed on the dates mentioned in the academic calendar.

## 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)

<http://www.nehrucolleges.org/NAAC/2.6.1%20NIET.pdf>

## 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
106	BE	B.E Electronics and Communic ation Engineering	97	80	82.5
105	BE	B.E Electrical and Electronics Engineering	53	33	62.3
104	BE	B.E Computer Science and Engineering	53	47	88.7
121	BE	Aeronautical Engineering	137	102	74.5
114	BE	B.E Mechanical Engineering	124	101	81.5
115	BE	B.E Mechatronics Engineering	102	82	80.4
631	MBA	Master of Business Adm inistration	26	25	96.2
424	ME	Aeronautical Engineering	4	4	100
403	ME	Communicat ion Systems	6	6	100
431	ME	Embedded Systems	2	2	100
<a href="#">View File</a>					

## 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)

<http://www.nehrucolleges.org/Students-Satisfactory-Survey.html>

## 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
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Minor Projects	1	Technology Information, Forecasting and Assessment Council	0.8	0.8
Minor Projects	180	Sun Alloys	0.15	0.15
<a href="#">View File</a>				

### 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
IPR Awareness Programme	Research Development Cell	03/12/2016
Seminar on "Positive, Proactive Assertive attitude Towards Engineering Carrier"	Science and Humanities	28/02/2017
Role of Entrepreneurial Development Programme in student activities	Science and Humanities	24/11/2016
Entrepreneurship and Growth	Electrical and Electronics Engineering	16/02/2017
One day Seminar on Entrepreneurship Development	Computer Science and Engineering	07/01/2017
one day seminar on Importance of fund proposal and copy rights	Aeronautical Engineering	21/02/2017
Entrepreneurship and Sustainable Development	Mechanical Engineering	20/02/2017

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
Nil	Nil	Nil	Nil	Nil
No file uploaded.				

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

Incubation Center	Name	Sponsored 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
0	0	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
Aeronautical Engineering	1
Electrical and Electronics Engineering	1
Electronics and Communication Engineering	1
Science and Humanities	2
Master of Computer Application	1

### 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)
International	Aeronautical Engineering	11	9
International	Computer Science and Engineering	10	6
International	Electrical and Electronics Engineering	7	4
International	Mechanical Engineering	6	3
International	Mechatronics Engineering	1	1.6
International	Science and Humanities	1	0.6
<a href="#">View File</a>			

### 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
Science and Humanities	1
Electrical and Electronics Engineering	2
Aeronautical Engineering	5
Electronics and Communication Engineering	11
<a href="#">View File</a>	

### 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
Experimental Analysis of Mechanical	Mr. R. Arravind	International Journal of Engineering Research	2016	3	Nehru Institute of Engineering and Technology	1

Properties of Aluminum Hybrid Metal Matrix Composites		and Technology				
Combustion of Acetylene and its Performance in Valveless Pulsejet Engines	Mr. L.Oblisamy	International Journal of Engineering Research and Technology	2016	0	Nehru Institute of Engineering and Technology	Nill
Investigation of Mechanical And Thermal loading in Gas turbine Blade with different Materials	Dr. P. Maniarasan	International Journal of Engineering Research and Technology	2017	0	Nehru Institute of Engineering and Technology	Nill
Automatic Flight Control System Control Law Development for Altitude Hold Mode in Helicopter by using Matlab Simulink Method",	Dr. P. Maniarasan	Imperial Journal of Interdisciplinary Research	2016	0	Nehru Institute of Engineering and Technology	Nill
Classical Approach to Brittle Fracture Growth	Dr. P. Maniarasan	Asian Journal of Basic and Applied Sciences	2016	0	Nehru Institute of Engineering and Technology	Nill
Maximization the Lifetime of a Wireless Sensor	Dr. P. Maniarasan	Indian Journals	2017	0	Nehru Institute of Engineering and Technology	Nill

Network by Optimized Detection of Selfish Nodes around a Base Station						
Bearing and Delamination failure analysis of pin loaded Composite Laminates	Mr. V.Dinesh Babu, Ms.T .Sivagangai	International Journal of IT, Engineering and Applied Sciences research	2017	0	Nehru Institute of Engineering and Technology	Nil
Optimizing Base Station Mobile Sink by Energy Balanced Clustering for Wireless Sensor Network	Dr. P. Maniaran	Asian Journal of Information Technology	2016	0	Nehru Institute of Engineering and Technology	Nil
Structural Analysis of Aircraft Landing gear during rough landing	Mr.L. Oblisamy	International Journal of Engineering trends and Technology	2016	2	Nehru Institute of Engineering and Technology	2
Experimental Investigation of Wear Behaviour of AA60601 Hybrid Metal Matrix Composites	Experimental Investigation of Wear Behaviour of AA60601 Hybrid Metal Matrix Composites	International Journal of Engineering Research and Technology	2016	0	Nehru Institute of Engineering and Technology	Nil
<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	Institutional affiliation as mentioned in
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					citation	the publication
Experimental Investigation of Wear Behaviour of AA60601 Hybrid Metal Matrix Composites	Mr. R. Arravind	International Journal of Engineering Research and Technology	2016	1	Nill	Nehru Institute of Engineering and Technology
Structural Analysis of Aircraft Landing gear during rough landing	Mr.L. Oblisamy	International Journal of Engineering trends and Technology	2016	1	2	Nehru Institute of Engineering and Technology
Optimizing Base Station Mobile Sink by Energy Balanced Clustering for Wireless Sensor Network	Dr. P. M aniiarasan	Asian Journal of Information Technology	2016	5	Nill	Nehru Institute of Engineering and Technology
Bearing and Delamination failure analysis of pin loaded Composite Laminates	Mr. V.Dinesh Babu, Ms.T .Sivagangai	International Journal of IT, Engineering and Applied Sciences research	2017	1	Nill	Nehru Institute of Engineering and Technology
Maximization the Lifetime of a Wireless Sensor Network by Optimized Detection of Selfish Nodes around a Base	Dr. P. M aniiarasan	Indian Journals	2017	5	Nill	Nehru Institute of Engineering and Technology



Station						
Classical Approach to Brittle Fracture Growth	Dr. P. Maniwaran	Asian Journal of Basic and Applied Sciences	2016	5	Nil	Nehru Institute of Engineering and Technology
Automatic Flight Control System Control Law Development for Altitude Hold Mode in Helicopter by using Matlab Simulink Method",	Dr. P. Maniwaran	Imperial Journal of Interdisciplinary Research	2016	5	Nil	Nehru Institute of Engineering and Technology
Investigation of Mechanical And Thermal loading in Gas turbine Blade with different Materials	Dr. P. Maniwaran	International Journal of Engineering Research and Technology	2017	5	Nil	Nehru Institute of Engineering and Technology
Combustion of Acetylene and its Performance in Valveless Pulsejet Engines	Mr. L. Oblisamy	International Journal of Engineering Research and Technology	2016	1	Nil	Nehru Institute of Engineering and Technology
Experimental Analysis of Mechanical Properties of Aluminum Hybrid Metal Matrix Composites	Mr. R. Aravind	International Journal of Engineering Research and Technology	2016	1	2	Nehru Institute of Engineering and Technology

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nill	21	14	Nill
Presented papers	6	11	Nill	Nill
Resource persons	Nill	2	3	Nill
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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
Go Green Celebration	Rotract club	1	46
1ST Inauguration Program	Rotract club	1	58
Teacher's Day Celebration - Nation Builder Award for Aged Teachers	Rotract club	1	35
Disaster Management and Awareness Programme	NSS,YRC/RRC	1	110
Visit to Old Age Home (Providing Breakfast)	Rotract club	1	15
Blood donation camp Associated with Shanthi Gears	NSS,YRC/RRC, Rotract club	1	211
Entrepreneurship Development Program	Rotract club	1	71
Personality Development Program and launching of digital India	Rotract club	1	69
Guidelines on Defense Career	Rotract club	1	185
Diabetics Awareness Program	NSS,YRC/RRC	1	120
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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
Nil	Nil	Nil	Nil
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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/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Go Green Celebration	Rotract club	Go Green Celebration	1	46
1ST Inauguration Program	Rotract club	1ST Inauguration Program	1	58
Teacher's Day Celebration - Nation Builder Award for Aged Teachers	Rotract club	Teacher's Day Celebration - Nation Builder Award for Aged Teachers	1	35
Disaster Management and Awareness Programme	NSS,YRC/RRC	Disaster Management and Awareness Programme	1	110
Visit to Old Age Home (Providing Breakfast)	Rotract club	Visit to Old Age Home (Providing Breakfast)	1	15
Blood donation camp Associated with Shanthi Gears	NSS,YRC/RRC, Rotract club	Blood donation camp Associated with Shanthi Gears	1	211
Entrepreneurship Development Program	Rotract club	Entrepreneurship Development Program	1	71
Personality Development Program and launching of digital India	Rotract club	Personality Development Program and launching of digital India	1	69
Guidelines on Defense Career	Rotract club	Guidelines on Defense Career	1	185
Diabetics Awareness Program	NSS,YRC/RRC1	Diabetics Awareness Program	1	120
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### 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
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Nil	Nil	Nil	0
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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 institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Inplant Training	Inplant Training	Neyveli Lignite Corporation Ltd,Neyveli 607803	06/07/2016	14/07/2016	1.Balaji K 2.Karthikeyan K M
Inplant Training	Inplant Training	Steel Authority Of India Ltd ,Salem 638013, 0427-2383021	02/01/2017	07/01/2017	1.Aswathy Surendran 2. Anadhakrishnan M K 3.Anadhu Surendran 4.Akhil S Nath 5.Atul Ravi 6.Fathimath Sagma K V
inplant training	inplant training	seven seas distillery pvt ltd. T.nagar chennai 600017. 0487-2370679	01/11/2016	10/11/2016	Akshay Krishna N
inplant Training	inplant Training	Steel Authority Of India Ltd ,Salem 638013, 0427-2383021	13/07/2016	19/07/2016	1.Sundaram oorthy V 2.Velesamy G 3.Seyed Ahamed Muhaifir S S 4.Saravanan V
Internship	Internship	Southern Industries And Electrical ltd,Rastha Karaikudi 630005,91-4565 -29331	19/12/2016	24/12/2016	1.Suchit Prasath D 2. Dhiyaneshwaran L 3.Sathiya balan K 4.Ramkumar S 5.Kishore R K S 6.Pradeesh K S 7.Muniyarasu

					M 8.Harikrishnan T S 9.Amal Jagadi 10.Ajith kumar M
Internship	Internship	Experts Hub industry skill development center ,JSSATE,bengaluru	24/01/2017	31/01/2017	1.Shibhu Dhamadaran 2.Sajith
Internship	Internship	Hewlett Packard enterprise.Sridevi towers 5th street ext gandhipuram coimbatore 641012	27/01/2017	15/04/2017	1.Rohith S 2.Dharun P 3.Dheeraj R 4.Vaishnav Namboothiri T
Internship	Internship	Spectrum soft tech solutions pvt ltd	19/12/2016	23/12/2016	Teena Johnson
Inplant Training	Inplant Training	ITI limited Kanjikode west palakkad 678623 ,0491 -2566010	27/06/2016	02/07/2016	1.Vaishnav Naboothiri T A 2.Rohith S
Inplant Training	Inplant Training	AppMobility MG road Ravipuram kochi 682016 ,0484393213	21/10/2016	30/12/2016	1.Dharun P 2.Rohith S
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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
Fice Education Pvt Ltd	04/04/2017	IOT Training	60
PiROOT Technologies	14/07/2016	One Day Seminar on IoT using PIC Microcontroller	55
Step Knowledge Service Pvt.Ltd	16/12/2016	Op-amp Internal Circuit and Performance Characteristics	85

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## 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
120	134.21

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Others	Existing
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### 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 patially)	Version	Year of automation
Autolib	Fully	5.0	2006

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	24437	7949045	1000	659054	25437	8608099
Reference Books	1435	574000	294	147000	1729	721000
e-Books	3367	13500	Nill	Nill	3367	13500
Journals	171	450568	Nill	Nill	171	450568
e-Journals	3244	933405	Nill	Nill	3244	933405
Digital	4	90000	Nill	Nill	4	90000

Database						
CD & Video	2033	Nill	100	Nill	2133	Nill
Library Automation	Nill	Nill	Nill	Nill	Nill	Nill
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(s pecify)	Nill	Nill	Nill	6210	Nill	6210
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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
Dr. Selvam S	e- learning materials	LMS	14/09/2016
Dr. Sivasamy A	e- learning materials	LMS	14/09/2016
Ms. A. Reyana	e- learning materials	LMS	17/09/2016
Ms. S. Priya	e- learning materials	LMS	14/09/2016
Mr. G. Jeevanatham	e- learning materials	LMS	14/09/2016
Dr. JAYARAJ V	e- learning materials	LMS	17/09/2016
Mr.JEBAPaulin M	e- learning materials	LMS	20/09/2016
Mr.PRABU T	e- learning materials	LMS	26/09/2016
Mr. M.Manorajapaul	e- learning materials	LMS	07/12/2016
Dr.S.Jeevanantham	e- learning materials	LMS	12/10/2016
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#### 4.3 – IT Infrastructure

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

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwid th (MBPS/ GBPS)	Others
Existin g	592	15	54	15	549	7	36	54	161
Added	0	0	0	0	0	0	0	0	0
Total	592	15	54	15	549	7	36	54	161

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

54 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
Teaching Learning Centre	<a href="https://nietcms.nehrucolleges.com/">https://nietcms.nehrucolleges.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
110	104.66	130	129.92

#### 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)

**Maintenance of the physical Infrastructure and Utilization:** The maintenance and upkeep of the infrastructure facilities are carried out the surveillance of the campus supervisor. The campus supervisor keeps the records of Infrastructure maintenance. Separate faculties are associated with campus supervisor to monitor the facility and to collect the complaints if any.

**Maintenance of Computer:** A separate computer maintenance team Centralized Computer Centre (CCC) is responsible which handles the departmental requirements. For every computer Centre, a Technician is recruited and a faculty member is made in-charge of the Centre. An exclusive department (CCC) with IT manager, one assistant system admin and 03 hardware engineers is functioning in the institute to cater to the needs of day-to-day computer maintenance.

**Maintenance of Lab Equipment:** All the departments take care of timely maintenance of the laboratory equipment. Most of the maintenance work is completed during semester break and a close monitoring of maintenance activities is a prime responsibility of heads of the departments with concerned Lab incharge /Technician.

**Upkeep and maintenance:** All departments shall strictly follow the laid down procedures and guidelines of the institute with regard to cleanliness and preventive and corrective maintenance of infrastructure. This shall include the following.

**Electrical Maintenance:** Includes all electrical facilities in academic blocks, hostels Generator, Air conditioners, etc, Building Maintenance: NIET maintains a list of buildings to be maintained. The frequency of inspection is decided in consultation with Principal or any other Authority.

**Library:** The Librarian, ably assisted by a team of supporting staff, looks after the maintenance of the library books, journals, periodicals, furniture, electronic equipment, computers and software. He co-ordinates with the campus supervisor to ensure that maintenance is done regularly.

**Sports Complex:** The Sports Complex comprising different playing fields, track field, Indoor Stadium, Gym and Pavilion is regularly cleaned and well maintained by support staff. Regular mopping of the Indoor Stadium is done.

**Medical facilities:** A separate dispensary room with a medical officer and a nurse is available on campus. College has a dynamic network with local hospitals which provide ambulance facilities in case of emergency and if required the patients are admitted in those hospitals.

**Rain Water Harvesting:** Rain Water Harvesting is implemented throughout the campus and one Rain water harvesting well has been installed.

**Water Tank:** The main overhead water tanks are to be cleaned at least once in six months. Testing of water sample is to be



carried out before and after cleaning. The test report is submitted to the Principal or concerned in charge for review. Water coolers provided for drinking purpose are also to be periodically maintained (once in Six Months).

<http://nehrucolleges.org/NAAC/4.4.2.pdf>

## 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	Nehru Vigyan Scholarship and Nehru Sports Excellence scholarship	38	1460500
Financial Support from Other Sources			
a) National	Scholarship from Government	1156	14262410
b) International	Nil	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 enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Aptitude and communication	27/07/2017	139	ADHOC NCPIR
Aptitude and Mechanical core training	13/02/2017	48	Shriram Transport Finance Company NCPIR
Aptitude and Mechanical core training	17/10/2016	48	FANUC - NCPIR
Aptitude and Mechanical core training	11/10/2016	48	HIROTEC - NCPIR
Soft skill development	06/03/2017	376	NCPIR
Seminar on Self Motivation	28/07/2016	40	PRINCIPAL NIMS
Yoga and Meditation	06/02/2017	352	Dr.P.T.Vijayarajkumar, Director-MBA, NIET
NOBLE Training-Physical Fitness	19/12/2016	62	Nehru Outbound for Leadership and Excellence (NOBLE)

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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
2016	Benefits of GATE	87	Nill	Nill	Nill
2016	Tips to crack UPSC & IAS Exams	60	Nill	Nill	Nill
2017	Preparation for uniformed services	104	Nill	Nill	Nill
2017	how to crack PSC exams	90	Nill	Nill	Nill
2016	preparation for SSC	65	Nill	Nill	Nill
2017	Seminar on Career Guidance	Nill	93	Nill	80
2017	Career guidance and procedures for Defense schemes	Nill	154	Nill	10
2016	PERSONALITY DEVELOPMENT	Nill	41	Nill	40
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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
Nill	Nill	Nill

## 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
Hinduja Global Service	85	27	Nill	Nill	Nill
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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	Department graduated from	Name of institution joined	Name of programme admitted to
2016	1	BE	Aeronautical Engineering	Rega Technical University	M.Sc - Aviation Transport
2017	1	BE	Aeronautical Engineering	Kauno Technological University	Master Degree Program In Aeronautical Engineering
2017	1	BE	Aeronautical Engineering	Anna University	M.E. Aeronautical Engineering
2016	2	BE	Mechanical Engineering	Kongu Engineering college	ME Engineering Design
2017	1	BE	Electrical and Electronics Engineering	Kalasalingam University	MBA
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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
GATE	2
GMAT	2
CAT	1
Any Other	11
TOFEL	1
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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
SAKURA 2K17	NATIONAL	12
Technotrust 17	NATIONAL	4
AVATAR CULTURAL FEST 17 - Group Dance	NATIONAL	2
SITRIX of DHURVA a National Level Techno Management Cultural Fest	NATIONAL	4
Hindustan trophy foot ball	NATIONAL	1
NATIONAL SCIENCE DAY-2017	NATIONAL	9

### 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 award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2016	9th PPG Memorial trophy 5's Five Side Inter Engi neering Collegiate Football Tournament 2017 winners	National	1	Nill	72141611 4002	RAYID RAHMAN T C ABILASH S
2016	Anna University Chennai Zone 10 football Tournament (Men) winners	National	1	Nill	72141611 4002	Shayam L shajim Tygin T.M ABILASH S RAYID RAHMAN T C JINO X SAFVAN DANISH K
2017	Anna University Chennai Inter Zone Best Physique (Men) 75kg Category Third	National	1	Nill	72141510 11058	Muthulak shmanan,IV Aero
2017	10th TCE Trophy 5's Five Side Inter Engi neering Collegiate Football Tournament 2017 third	National	1	Nill	72141611 4002	RAYID RAHMAN T C ABILASH S

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

Nehru Institute of Engineering Technology encompasses various Committees for the prosperity of the students and provides opportunities to take part in the Administration as well as Departmental activities, and Co-Curricular activities. Class Representatives In every Academic year, a student is selected based on merit and interest to be the class representative. The role of the

class representative is to bridge the gap between the class students and the Class Advisor and this inculcates leadership qualities in the students. Communication is made regarding the general necessities of the students as one-point contact. Class Committee For every class, the academic progress of each class is evaluated in frequent intervals. Few student representatives comprising Bright students and slow learners from each class along with the faculties handling the subjects form this committee. A faculty member not handling any subject to that class act as the Chairman. Department Associations In every Academic year, the students participate in the decision-making process of selecting activities to be organized by the department like seminars, workshops, guest lectures, value-added courses etc. through meetings. Each department has an association consisting of students nominated based on merit for President, Vice President, Secretary and Treasurer guided by a faculty member as an advisor to discuss and decide the meetings to be conducted. Student Council The college has an overall Student council. Each department will suggest a Student based on their academic performances who will be constituted in the Student Council every academic year. The Student council involves in the following activities: 1. Organizing College day and Avatar (National level intercollegiate meet) functions every year and functions like Celebrations of festivals namely Independence Day and Republic Day, Onam and Pongal effectively under the guidance of the convener and the faculty members. 2. Publishing College Magazine 'VISTA' during College Day Celebrations annually. 3. Dissemination of College / Department POs, PSOs, PEOs along with other relevant information for the students through student's handbook which is prepared with the help of student council members. 4. Organizing Sports Day from House formation to Team selection with the support of the student council advisor and the Physical Director. 5. Mediating between management and students to solve the general issues. 6. Extending support to principal office/department. 7. Giving feedback to the Principal for the smooth functioning of the events like college day, Graduation day, Symposiums, etc., 8. Students have representations in the Transportation Committee for the smooth operation of the Transportation Department of the college which has a fleet of 40 buses operating over a maximum radius of 70 km every day in both Tamilnadu and Kerala. 9. College follows an open system to all the activities and student members are nominated and freely suggest their grievances through grievance and redressal cell. 10. Women students have representation in the women empowerment cell and welfare committee of the college. Student members are taking part in various bodies like Library advisory committee (One student from every department), Grievance and Redressal Committee (one representative from each class), Academic Advisory Committee

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Nehru Institute of Engineering and Technology has an alumni association Alumni Connect whose meetings are mostly organised in the college campus itself. The meetings discuss steps to be taken for the development of the College. These suggestions are conveyed to the College Council through the Principal. The Alumni Association seeks to unite graduates with each other and current students through mentoring and career development programs, events and reunions, and a range of volunteer opportunities. The alumni connect is conducted once in a year, where the alumni from different batches are discussing their views and give suggestions for the betterment of the junior students. The alumni connect is organised by the alumni committee of the college and the alumni are honored. These meetings are mutually beneficial for the Institution and the alumni. This offers chances for the alumni to meet their friends and act as a bridge for the faculty to share their experience,

knowledge and suggestions. The alumni are invited o the institution to deliver talks on career guidance and seminars for the students in their areas of expertise and motivate the young minds. Successful entrepreneurs from are invited to talk about their success stories with the budding engineers. The alumni also help the students of the college to get opportunities to undergo industrial visit or internship in their organizations or to assist them to get it through their references. They also help the students for getting placement in their organization and alumni connect meetings pave the way for the successful placements of the students. Students are a part of the institution after their graduation also. Keeping this in mind only Alumni Association is formed and it keeps track of past students' career growth. They are given link in the institution website to give constructive feedback and suggestions at any time from anywhere Moreover, the members of Alumni association often visit the institute and share their knowledge and experience with our staff and students. Knowledge and skill development programmes are conducted based on their suggestions given by them.

5.4.2 – No. of enrolled Alumni:

490

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

NIET alumni connect The college has an alumni association in the name of alumni connect whose meeting is mostly organised in the college campus itself every year or sometimes off campus at hotel of major cities. The alumni meetings are discussing steps to be taken for the development of the college with regard to industry institution collaboration and job opportunities. These suggestions are conveyed to the college council through the Principal and necessary steps will be taken. The Alumni Association seeks to unite graduates with each other and current students through mentoring and career development programs, events and reunions and a range of volunteer opportunities. The alumni connect is conducted once in a year, where the alumni from different batches are discussing their views and give suggestions for the betterment of the junior students The alumni connect is organised by the alumni committee of the college and the alumni are honored. These meetings are mutually beneficial for the Institution and the alumni. This offers chances for the alumni to meet their friends and act as a bridge for the faculty to share their experience, knowledge and suggestions. The alumni are invited o the institution to deliver talks on career guidance and seminars for the students in their areas of expertise and motivate the young minds. Successful entrepreneurs from are invited to talk about their success stories with the budding engineers. The alumni also help the students of the college to get opportunities to undergo industrial visit or internship in their organizations or to assist them to get it through their references. They also help the students for getting placement in their organization and alumni connect meetings pave the way for the successful placements of the students. Students are a part of the institution after their graduation also. Keeping this in mind only Alumni Association is formed and it keeps track of past students' career growth. They are given link in the institution website to give constructive feedback and suggestions at any time from anywhere Moreover, the members of Alumni association often visit the institute and share their knowledge and experience with our staff and students. Knowledge and skill development programmes are conducted based on their suggestions given by them.

## 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)

The institution defines the decentralization in working through delegation of authority. Personnel at different level implement the decisions. Top-level hierarchy is responsible for controlling and monitoring the entire institution. It includes the COE Secretary, Governing council and Principal. The Governing Council facilitates the COE Secretary with regard to broad guidelines, policies and framework for the improvement of quality education in the institution. The faculty members are involved in various activities by the management through the Principal related to the development of the institution. The academic and administrative activities of the Institute are headed by Principal and also he forms various committees and assigns responsibilities. It includes Head of the Departments (HOD), Librarian, Physical Education Director who are executing institutional plans. It includes faculty, non-teaching staff and others help the middle level managers by coordinating the activities delegated to them. In all academic and non-academic activities, institution is following participative management

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

No

## 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	The different departments of our college are required to equip our students according to the University prescribed syllabus and curriculum and examinations held according to the university-planned schedule. The pattern, type of questions, tutorial/practical sessions and assignments set by the college are in accordance with the norms prescribed by the university.

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

E-governance area	Details
Examination	For the Anna University examinations, forms need to be filled online. Results are initially also displayed online. All faculty members who are examiners need to submit marks online on the university's password-protected portal. The faculty members who officiating as scrutineers use the university portal.

## 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	Name of the professional body for which membership	Amount of support
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		support provided	fee is provided	
2017	Mrs.Kavitha B Kumar	National Level Conference on Intelligent Information and Computing Technologies	-	300
2017	Mrs.K.Sivakami	National Level Conference on Intelligent Information and Computing Technologies	-	300
2017	Mr.Vinod Kumar. V	International Conference on NextGen Electronic Technologies:Silicon to software	-	500
2017	Mr.K.Nagarajan	International Conference on NextGen Electronic Technologies:Silicon to software	-	500
2017	Mr.Vinod Kumar. V	International Conference on Innovations in Information,Embedded and Communication Systems	-	750
2017	Ms. A. Senthamil Selvi	7th National Level Conference on Emerging trends in Mechanical Engineering (NCETME'17)	-	300
2017	MR. D. Manikandan	7th National Level Conference on Emerging trends in Mechanical Engineering (NCETME'17)	-	300
2017	Mr.J.Karthikeyan	7th National Level Conference on Emerging trends in Mechanical Engineering (NCETME'17)	-	300



2017	Mr.R.Kousik Kumaar	National Conference On Design ,Materials And Constructions (NCDMC 2017)	-	500
<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)
2017	Texas Instruments	-	08/02/2017	08/02/2017	18	Nill
2017	FDP on Spoken Tutorial	-	09/02/2017	09/02/2017	7	Nill
2016	Labview - Virtual Instrumentation	-	06/06/2016	10/06/2016	10	Nill
2016	FDP on Experimental Stress Analysis	-	13/06/2016	17/06/2016	7	Nill
2016	-	Reading skills: Focus on overall comprehension	27/06/2016	28/06/2016	Nill	27
2016	Seminar on Open Architecture Made Easy with CIM	-	12/08/2016	12/08/2016	19	Nill
2016	-	Maintenance of Physics laboratory equipments	17/08/2016	17/08/2016	Nill	1
2016	-	Seminar on Computer practices	09/02/2016	09/02/2016	Nill	6
2016	Kinematics of Machinery	-	02/12/2016	12/12/2016	25	Nill

2016	-	Virtual Instrumentation using LABVIEW	03/12/2016	06/12/2016	Nil	11
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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
Embedded And Real time System	1	15/05/2017	22/05/2017	7
Advanced Workshop on Partial Differential Equation and Applications	3	29/05/2017	29/05/2017	1
Anatomy and Outcome Based Education	2	23/05/2017	27/05/2017	5
Outcome Based Education and Autonomy -FDP	7	23/05/2017	27/05/2017	5
FDP on Strength of Materials	1	22/05/2017	25/05/2017	5
Embedded And Real time System	2	15/05/2017	22/05/2017	7
FDP on Oppurtunities and Applications of Nano Technology in India	7	23/01/2017	24/01/2017	2
FDP on Advanced Manufacturing Technology	5	08/05/2017	10/05/2017	3
FDP on Applied Microsoft .Net Framework Programming	3	27/03/2017	31/03/2017	5
FDP on Technology, Innovation and Entrepreneuershi	5	20/03/2017	24/03/2017	5

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## 6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
175	175	29	29

## 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Group Insurance coverage for all the teaching employees, Providing sponsorship for teaching faculties for higher studies. Recommendation and permission given by the institute to the employees for loan facility. Fees concession is provided to the wards of employees., Day Care Facility.</p>	<p>Group Insurance coverage for all the non-teaching employees, Providing sponsorship for non-teaching staff for higher studies. Recommendation and permission given by the institute to the employees for loan facility. Fees concession is provided to the wards of employees., Day Care Facility.</p>	<p>financial support , Medical Insurance, Concession provided in fees</p>

## 6.4 – Financial Management and Resource Mobilization

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

A well-defined internal audit mechanism is followed to inspect the utilization of funds and the internal financial audit process is carried out regularly. The sanctioning process of the budget is well defined and the budgetary preparation is preceded with the process of auditing. The monthly budget is prepared by all the departments based on the approved budget which is communicated to all the concerned persons. The expenditures of the Institution is monitored and reviewed by conducting budget meeting. The monitoring of expenditure against budget is regularly undertaken annually, where all department in-charges and purchase manager submit their annual expenditure statement to the Principal and it is forwarded to the CEO Secretary

## 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/ Grants received in Rs.	Purpose
00	0	00
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## 6.4.3 – Total corpus fund generated

0
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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	Academic Expert, Nehru Institute of Technology	Yes	IQAC
Administrative	Yes	Nehru College of Educational and Charitable Trust Office	Yes	IQAC

#### 6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

(i) Feedback on Academics to meet the standard (ii) Vital role in Department Advisory Committee (iii) Support for students internships and field projects (iv) Placement support (v) Faculty advisors regularly contact parents to discuss the academic activities.

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

(i) "Maintenance of Laboratory Equipment. (II) Improving basic communication skills. (III) Strengthening the overall English Language development programme. (iv) Stress Management program was Conducted for the support staff.

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

(1) IQAC motivates the faculty to adopt Innovative processes in Teaching and Learning process. (2) Conduct of remedial /backlog classes and special classes for slow learners so as to improve the learning skills of the student • (3) To impart social responsibility, activities are conducted regularly through YRC and RRC to learn the social ethics and culture. (4) The project development skills in students can be improved by preparing proper schedules by the project committee for reviews, submission of the weekly / monthly /semester end reports. (5) Establishing MOUS with industry and academia to conduct certification programmes which helps the students to bridge the gap between the industry requirements and curriculum.

#### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	No
b) Participation in NIRF	No
c) ISO certification	No
d) NBA or any other quality audit	No

#### 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
2016	FDP on Awareness on NAAC Accreditation process	08/11/2016	08/11/2016	12/11/2016	110
2017	FDP on Art of Effective Teaching	26/05/2017	26/05/2017	27/05/2017	110
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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
Women In Distress	22/02/2017	22/02/2017	83	Nill
International Womens day -2017	08/03/2017	08/03/2017	120	Nill

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
NIL

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	No	Nill
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nill
Rest Rooms	Yes	1
Scribes for examination	Yes	1

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
2016	1	Nill	13/06/2016	5	Experimental stress analysis	Faculty Development Programme	30
2016	1	1	26/06/2016	1	TECHSYM16	Seminar	135
2016	1	Nill	06/08/2016	1	An one day seminar on Raspberry Pi IOT	Seminar	63
2016	1	Nill	30/08/2016	1	An one day seminar on Raspberry	Seminar	63

					Pi IOT		
2016	1	Nill	19/08/2016	1	Elements of Heat transfer and combustion in engine	Seminar	115
2016	1	Nill	24/08/2016	1	Grid and Cloud Computing	Seminar	135
2016	1	Nill	21/09/2016	1	Internet of Things	Seminar	135
2016	1	Nill	24/09/2016	1	Flight Dynamics	Lecture on Flight dynamics	140
2016	1	Nill	24/09/2016	1	Aero Engineering Thermodynamics	Lecture on gas turbines	140
2016	1	Nill	05/10/2016	1	Nanotechnology Applications	Nanotechnology Applications	210
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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)
GE6351 - Environmental Science and Engineering(Regulation 2013) - BE	03/06/2016	A text for all undergraduate students of engineering for their course in Environmental Science and Engineering , this comprehensive text provides an in-depth analysis of the fundamental concepts. It also introduces the reader to different areas of environmental science and engineering, as well as environmental impact assessment and environmental protection.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day Celebration and Distribution of Stationary items to poor students	15/08/2016	15/08/2016	128

Blood donation camp	22/08/2016	22/08/2016	116
Go Green Celebration	26/08/2016	26/08/2016	46
Dengue Awareness	26/08/2016	26/08/2016	100
Teacher's Day Celebration - Nation Builder Award for Aged Teachers	09/09/2016	09/09/2016	35
Disaster Management and Awareness Programme	15/09/2016	15/09/2016	110
Visit to Old Age Home (Providing Breakfast)	29/09/2016	29/09/2016	15
Blood donation camp Associated with Shanthi Gears	29/09/2016	29/09/2016	211
Personality Development Program and launching of digital India	09/01/2017	09/01/2017	69
Diabetics Awareness Program	31/01/2017	31/01/2017	120
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Energy Conservation/Protection of Eco-system. 2. Environmental awareness is encouraged by all the departments to instill interest among the campus population on the importance of green campus. 3. Rain water harvesting is implemented inside the campus. 4. Efficient water conservation is followed in the campus. 5. Cleaning and Planting more number of trees is done by the NSS, Nature club volunteers.

### 7.2 – Best Practices

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

**Title of the Practice 1 : Extensive Industry Institute Interaction Outcomes:**

- Industry Internship for more than 3 months period in the Industry for the students.
- Technical Value added courses conducted by Industry experts.
- In plant training and Project work in industries.
- Guest lectures, seminars by Industry experts.
- Workshops organized in collaboration with Industries.
- Faculty training in the Industries.
- Consultancy services provided to the Industries.
- Testing service offered to Industry.
- Industry Sponsored laboratories (Texas Instrument (TI) Lab, IOT Lab, Energy Park, and Robotics Lab).
- Enhancement in campus placement offers to the students of all the programmes.

**Title of the Practice 2 : Student Council :**

1. Goal: The goal for the formation of Student Council is to achieve our Vision, Mission and Quality policy by involving student representatives in all our endeavors. The aim of the Student Council is to inculcate Life and Career Skills. These skills include Flexibility and Adaptability to change, Group Behavior, possessing initiative, managing time and goals, being able to work independently and to be responsible citizens.

2. Objective of the Practice: The council members are

selected in the beginning of the academic year. The students are nominated by the departments on eligibility criteria like, academic performance, discipline, regularity and other general merits. To build a positive energy among students, 2-minute silent prayer is practiced in the beginning of every day to reduce the stress in the students to some extent musical therapy is given during break time. 3. The Context: The Student council was started during the year 2011-12 and continues till date effectively. This was constituted to make the NIET administrative and feedback system more participatory and Student Centric.

1.The aim is to create challenges to fast learners and creamy layer of the students, in terms of overall performance. 2.Later this proved to be a very unique initiative to mould the students into excellent professionals with high degree of positive attitude and optimism to achieve their goals. 3.The different criteria under which the students are elected were the additional challenges faced. 4.At the beginning of implementation, students found it difficult to organize meetings with the members of student council during class hours. It had an adverse impact in implementing their action plans which they had promised. 4. Evidence of Success: The percentage of students' involvement in curricular and co-curricular activities increased with the motivation from peer group. Some of the developments which are obtained from the council suggestion are 1.Improved Wi-Fi facility has been provided. 2. Ragging is completely banned in and around the campus with proper supervision. 3.The College successfully organizes functions like Onam, Pongal, College day and Avatar (Inter college meet). 4.Based on the requests and suggestions from student representatives specific core companies are invited for Campus drive. 5.Student council acts as an optimistic mediator between management and students to solve the general issues. 5. Problems Encountered and Resources Required: Initially students found it difficult to balance academic and Student Council activities. It was tackled by providing special support both in academics and other activities, now this is one of the successful practices by the college.

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

<http://www.nehrucolleges.org/best-practices.html>

### 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

**CONTENT MANAGEMENT SYSTEM** Our NIET campus is using Content Management System (CMS) software whose main objective is to create and manage digital content. This software can be accessed from mobile phones, tablets as well as from the personal computers. The students can use it like virtual class, where they can read and download lecture notes, question banks and reference books. Using this software student can also see NPTEL videos, can also read books from National Digital Library and also view papers of science Direct ELSEVIER. **Workforce Productivity:** This software can help students to view their academic information very quickly from anywhere in the globe. There by it increases staffs ability to perform their jobs faster and more accurately. It also helps to improve the content delivery to the students. **Time:** With this software, our college can make more information available to students on a pull basis (i.e., students can link to relevant information at a time which suits them) rather than being deluged indiscriminately by emails. **Cost - effective:** Students can view information and data via web-browser rather than maintaining physical documents such as procedure manuals, internal phone list and requisition forms. **Promote Common Corporate Culture:** Every student is viewing the same information. **Enhance Collaboration:** Information is easily accessible by all authorized users thus teamwork is enabled.



Provide the weblink of the institution
<a href="https://nietcms.nehrucolleges.com/">https://nietcms.nehrucolleges.com/</a>

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

1. To facilitate continuous upgradation and updation of Knowledge Use of Technology, by Faculty and Students. 2. Library facility will be enhanced by new books E- sources. 3. To organize more number of extension activities through N.S.S., YRC and RRC. 4. To organize Workshop/Seminars for students on skill development Programme 5. To Organize Awareness programme on Entrepreneurship skills for Students. 6. Online feedback system for students other stakeholders. 7. To prepare and submit self Assessment report (SAR) for NBA Accreditation.