



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		NATIONAL ENGINEERING COLLEGE
Name of the head of the Institution		Dr K KALIDASA MURUGAVEL
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04632227441
Mobile no.		9442280227
Registered Email		principal@nec.edu.in
Alternate Email		iqac.nec@gmail.com
Address		K.R.Nagar, Kovilpatti
City/Town		Kovilpatti
State/UT		Tamil Nadu
Pincode		628503
2. Institutional Status		

Autonomous Status (Provide date of Conformant of Autonomous Status)	23-May-2011
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.V.Kalaivani
Phone no/Alternate Phone no.	04632222502
Mobile no.	9842637770
Registered Email	iqac.nec@gmail.com
Alternate Email	vkase@nec.edu.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://nec.edu.in/wp-content/uploads/2018/07/AQAR-2017-18.pdf
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4. Whether Academic Calendar prepared during the year

Yes

if yes,whether it is uploaded in the institutional website:
Weblink :

<https://nec.edu.in/wp-content/uploads/2018/06/TENTATIVE-ACADEMIC-CALENDER-2018-19.pdf>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B	2.5	2014	21-Feb-2014	20-Feb-2019
2	B++	2.83	2017	22-Feb-2017	21-Feb-2022

6. Date of Establishment of IQAC

06-Jun-2013

7. Internal Quality Assurance System

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
15th IQAC Meeting	16-Feb-2019	31

	1	
14th IQAC Meeting	07-Jul-2018 1	27
Interaction of Principal with the second and third year students to get the feedback regarding academic performance and other facilities provided to the students	03-Oct-2018 1	42
Interaction of Principal with the second and third year students to get the feedback regarding academic performance and other facilities provided to the students	05-Jan-2019 1	42
Interaction with the final year students to get the feedback regarding academic performance and other facilities provided to the students	12-Feb-2019 1	42
Academic Quality Audit	05-Dec-2018 1	70
Academic Quality Audit	27-Mar-2019 1	80
Academic Quality Audit	11-Jan-2019 1	40
UGC on the spot inspection for the extension of Autonomous Status	09-Mar-2019 2	20

8. Provide the list of Special Status conferred 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
National Engineering College	DST - FIST (Level 0)	DST	2018 1	4300000
National Engineering College	New generation innovation and Entrepreneurship development centre (NewGen IEDC)	NSTEDB & DST, New Delhi	2017 5	6000000
National Engineering College	NEC - Business Incubator Cell	MSME, New Delhi	2016 2	2939000

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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 :

2

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)

Motivational activities have been initiated for students' startups.

Webinar programs have been conducted for the students and faculty members by the industrial experts through MHRD Institution Innovation Council.

- Faculty members have been motivated and facilitated to attend faculty development training programs and workshops in NITs/ IITs/IISC and other reputed institutions.

- Faculty members and students have been motivated to undergo industrial Trainings in reputed industries of their core areas with the funding from the management.

Students are motivated to develop new products by providing fund through NewGen IEDC.

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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
More than 75 percentage of the students should be placed with medium salary of Rs Four lakhs per annum	60 percentages of the eligible students are placed with an average salary of Rs Two and half lakhs per annum.
More than 20 % of the students should	2.5 % of students have got eligible

get eligible scores in competitive examinations like GATE, Tofel, CAT, MAT, etc.,	scores in GATE, CAT and MAT exams.
More than 3 % of the students should be motivated / trained to become an entrepreneur.	1.5 % of students have been motivated and became entrepreneurs.
The average pass % of passed out students should be more than 90%.	The average pass % of passed out students in 2018-19 is 90%
Each department should have ongoing R&D projects worth > 15 lakh	50% of the departments have ongoing R&D projects worth more than 15 lakh
Each department should have ongoing industrial consultancy work worth Rs. 3 lakh.	Mechanical, EEE, IT and Civil departments have ongoing industrial consultancy work of worth more than Rs.5.67 lakh.
Faculties should be motivated to publish the research articles in high impact factor journals.	Totally 66 papers have been published in International journals with the impact factor ranging from 0.2 to 5.5 in the academic year 2018-19.
All the faculty members should be encouraged to participate / present articles in international conferences / workshops / FDPs organized by other leading institutions.	Totally 165 Conferences and workshops in International and national level have been attended by the faculty members in the academic year 2018-19.
Each department should organize Conference / workshops / FDP in every academic year.	ECE, EEE, EIE, CSE and IT departments have organized Faculty Development Training programs
Every department should sign MoU with minimum 2 companies per year.	All the departments have signed MoU with minimum 2 companies in the academic year 2018-19
More number of students should be encouraged to undergo in-plant training / internship program / industrial projects.	No. of Students undergone In-plant training: 297 No.of Students undergone internship program : 366
Every department has to develop at least one product every year	15 products have been developed totally in the academic year 2017-18 with the fund sanctioned from NewGen IEDC.
Every year, it is proposed to initiate a start up through our alumni and faculty	One start ups has been initiated in the academic year 2018-19.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Management and before the IQAC Peer Review Team including IQAC internal members	03-Aug-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	23-Feb-2019
16. Whether institutional data submitted to AISHE:	No
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>To improve the productivity of our institution towards paperless administration, InsProPlus (Institution Productivity Plus) software serves as a perfect solution. At present, the modules in practice are as follows, • Student Management • Academic Management • Online Learning Management System • HR Management • Hostel Management • Central Library Management • Finance Management • COE Administration • Certificate Issuing • Automatic SMS delivery to the parents for absenteeism of their wards, their ward's performance in the Internal tests, circular notifications, etc., • Performance reports, Access reports, online Entries and Enquiries • Online web portal for staff and students • Online leave apply and approval • Online faculty recruitment process • Selection of faculty members and elective subjects under CBCS • Students' attendance entry and report generation • Result analysis for the internal tests. • College Bus Driver Details • Fuel Maintenance • Vehicle Maintenance • Mess fee payment The system helps the management, Director, Principal, HODs and faculty to view the academic details of the students. Also, parent/guardian can get assistance about their ward through mobile via SMS or web portal. InsproPlus for MIS has been installed and available at our college premises since August 2011.</p>

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	004	Electrical and Electronics Engineering	18/05/2019
BE	004	Electrical and Electronics Engineering	17/11/2018
BE	005	Civil Engineering	03/05/2019
BTech	006	Information Technology	04/05/2019
BTech	006	Information Technology	27/10/2018
BE	007	Science and Humanities	23/11/2018
BE	001	Mechanical Engineering	25/05/2019
BE	001	MECHANICAL Engineering	16/11/2018
BE	002	Electronics and Communication Engineering	11/05/2019
BE	002	Electronics and Communication Engineering	10/11/2018
BE	003	Computer Science and Engineering	18/05/2019
BE	003	Computer Science and Engineering	17/11/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	3 days Entrepreneurship Awareness Camp	21/08/2018	Training programme	23/08/2018
BE	3 days Entrepreneurship Awareness Camp	24/09/2018	Training programme	26/09/2018
BE	Two weeks FDP on Entrepreneurship	03/12/2018	Training programme	15/12/2018
BE	Students Leadership Development Programme	23/08/2018	Training programme	08/12/2018
BE	Summer Technical	25/04/2018	Training programme	11/05/2019

	Training			
BE	Employability Skill Enhancement Training	04/03/2019	Training Program sponsored by Renault Nissan	14/03/2019
BE	Communication Assessment	26/03/2019	Training programme for first year UG students	29/03/2019
BE	Group Discussion	01/07/2018	Skill development programme for final year IT students	01/07/2018
BE	Soft Skill training	11/07/2018	Skill development programme for final year Mechanical students	12/07/2018
BE	20 students went for training at HR Steel Private Company	21/09/2018	Skill development programme for final year Civil students	21/09/2018
BE	Resume Writing & Body language	21/09/2018	Skill development programme for final year EEE students	21/09/2018
BE	Skype Interview was conducted who have cleared first round for TCS -16 students got placed	03/10/2018	Skill development programme for final year students	03/10/2018
BE	Communication Assessment	27/03/2019	Training programme for first year UG students	01/04/2019

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	15EC04E – 3D imaging and image set retrieval	11/12/2018
BE	15EC15E – Advanced wireless communication	11/12/2018
BE	15EC35E – Principles of operating system	11/12/2018
BE	15EC19L – Consumer	11/12/2018

	Electronics	
BE	15EC20L - Network troubleshooting and traffic analysis using wireshark	11/12/2018
BE	15EC21L - Secured network system with snort	11/12/2018
BE	15EC22L - Wireless communication system design using SDR	11/12/2018
BE	15EC23L - OFDM system design using SDR	11/12/2018
BE	15IT25L, 15CS25L - Introduction to Networks	04/05/2019
BE	15IT25L, 15CS25L - Introduction to Networks	18/05/2019
BE	15IT26L, 15CS26L - Routing and Switching Essential	04/05/2019
BE	15IT26L, 15CS26L - Routing and Switching Essential	18/05/2019
BE	15IT27L, 15CS27L - Scaling Networks	04/05/2019
BE	15IT27L, 15CS27L - Scaling Networks	18/05/2019
BE	15IT28L, 15CS28L - Connecting Networks	04/05/2019
BE	15IT28L, 15CS28L - Connecting Networks	18/05/2019
BE	15ME23L - Design a Startup	25/05/2019
BE	15EE24L - High Voltage Testing Techniques	18/05/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Under Graduate Programmes	19/05/2018

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
Yoga for youth empowerment	21/06/2019	209
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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	Yoga club and NSS Units of the college in association with Manavalakalai Mandram, Arunachalam Pettai, Kovilpatti envisaged a programme on "YOGA for ALL" on 21.06.2018	312
BE	NSS Special Camp was conducted at Villiseri Village, Kovilpatti Taluk by NSS volunteers from 20.02.2019 to 04.03.2019	100
BE	Blood Donation Camp was conducted by NSS units of our college in association with Dr.Devasana, Kovilpatti Government Hospital on 24.09.2018	101
BE	Inplant Training program	297
BE	Internship Training program	366
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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
<ul style="list-style-type: none"> • Students' feedback about each course in a semester is obtained through online system using InsProPlus software at the end of the semester. • In addition, the feedback on teaching learning is obtained through Course End Survey and Exit surveys from passed out students. • Both Course outcome evaluations and Staff Evaluation are being done through the students' feedback. • Staff Evaluation Reports, Students Feedback Report, Staff Self Appraisal and stakeholders feedback are discussed and corrective measures are planned during the IQAC meetings accordingly. • Parents feedback is obtained through the Parents' Teachers meeting, which is regularly conducted twice in a year.

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	UG Degree Programmes	660	560	557
ME	PG Degree Programmes	115	60	50
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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
2018	2655	50	189	18	55

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
207	207	37	37	8	10

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

Yes. Every student will be under the care and guidance of a faculty who is appointed as his/her Mentor/tutor. About 20 students will be assigned to each mentor/tutor who will also act as their local guardian and assist them in all matters of academic as well as other activities. Further, the tutor will also help the students in registering the courses, monitor their attendance and progress and council them periodically. If necessary, the tutor may also discuss with or inform the parents about the progress of the students through the concerned Head of the department. The mentor will maintain a record sheet for each of his/her ward. The record sheet contains all information concerning the students 'attendance, marks obtained in the university examinations, monthly tests, achievements if any in curricular, cocurricular and extracurricular activities and disciplinary proceedings if any taken against the student. Student mentoring plays a vital role in a student's life. Hence, the students are advised to meet their mentor frequently and discuss their problems freely with them. They should also take care to see that all information concerning their progress and achievements in the college are duly entered in the record sheet.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2705	207	1:13

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
30	30	0	30	1

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	Dr.S.Tamil Selvi	Professor	Distinguished Women in Engineering by Venus International Foundation
2018	Dr.K.G.Srinivasagan	Dean	Infosys Inspire Faculty Partnership Award
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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
BE	2018 2019 Odd semester	VII, V III	24/11/2018	18/01/2019
BTech	2018 2019 Odd semester	VII, V III	24/11/2018	18/01/2019
BE	2018 2019 Even semester	VIII	11/04/2019	03/05/2019
BE	2018 2019 Even semester2018 2019 Even semester	II	12/06/2019	12/07/2019
BE	2018 2019 Even semester	VI IV	13/05/2019	12/07/2019
ME	2018 2019 Even semester	II	06/06/2019	12/07/2019
ME	2018 2019 Even semester	IV	13/04/2019	03/05/2019
ME	2018 2019 Odd semester	III	31/10/2018	18/01/2019
ME	2018 2019 Odd semester	I	10/01/2019	02/02/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
66	2688	2.46

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://nec.edu.in/r-2015-ug-courses/>

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
001	BE	Mechanical Engineering	143	138	96.5
002	BE	Electronics and Communication Engineering	121	120	99.17
003	BE	Computer Science and Engineering	118	118	100
004	BE	Electrical and Electronics Engineering	141	141	100
005	BE	Electronics and Instrumentation Engineering	56	56	100
007	BE	Civil Engineering	66	66	100
006	BTech	Information Technology	55	55	100
008	ME	Energy Engineering	2	2	100
009	ME	Computer Science and Engineering	6	6	100
010	ME	High Voltage Engineering	5	5	100
011	ME	Embedded System Technologies	2	2	100
012	ME	Control and Instrumentation Engineering	2	2	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)

<http://172.16.0.24/studentexitsurveysystem.php/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION**3.1 – Promotion of Research and Facilities**

3.1.1 – The institution provides seed money to its teachers for research

No

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	nil	nil	05/07/2018	nil
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3.2 – Resource Mobilization for Research

3.2.1 – 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
Major Projects	3	DST (TDT)	24.41	15.81
Major Projects	2	DRDO	9.85	9.85
Major Projects	2	DRDO	12.19	12.19
Major Projects	3	DST	44.25	41.07
Major Projects	3	DST	26.19	9.45
Minor Projects	2	UGC	4.45	4.1
Students Research Projects (Other than compulsory by the University)	1	NEWGEN IEDC	25	25
Students Research Projects (Other than compulsory by the University)	1	IE(I)	0.6	0.6
Students Research Projects (Other than compulsory by the University)	1	TNSCT	0.2	0.2
Any Other (Specify)	1	DSTFIST	90	43
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3.2.2 – The institution provides seed money to its teachers for research,

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3.3 – Innovation Ecosystem

3.3.1 – 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
Student Leadership Development Programme	Dr.P.EsakkiMuthu, Chief Scientist, River Silca, Bengaluru	29/12/2018
One day workshop on "Intellectual Property Rights(IPR)" from Institution Innovation Council	Dr.M.Kantha Babu, Director, Centre for Intellectual Property Right (CIPR), Anna University Chennai	29/12/2018
Research	Dr.M.Kantha Babu, Director, Centre for Intellectual Property Right (CIPR), Anna University Chennai	12/01/2019
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3.3.2 – 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
AICTE - CII Survey	Industry Linked Technical Institutes 2018	Confederation of Indian Industry (CII) and All India Council for Technical Education (AICTE)	07/12/2018	Platinum Score: >30
CliqTrix Challenge' 19	S.Pradeep Kumar, M.Manoj Sabareesh	Zoho Corporation, Chennai	28/10/2018	1st prize with cash award Rs. 1,00,000/
Innovative product idea of Breaking the Wall of Power Generation	C. Ganeshlingam U. Ramar (EIE)	Falling Walls Lab, Visakhapatnam	10/10/2018	Eighteen finalist from India
India International Science Fest'18	S. Manivannan (EIE)	SATHI IISF 2K18, Lucknow	05/10/2018	Participated
Aero Engineers World	A.Varatharajan, R.A.Jivesh, B.Ganapathy Ram, M.Vignesh, S.Muthu Balaji, J.Jesindha	MHRD Smart India Hackathon 2018	18/06/2018	First prize
Infinity and Beyond, Grand Finale	A.Varatharajan, R.A.Jivesh, B.Ganapathy Ram, M.Vignesh, S.Muthu Balaji, J.Jesindha	MHRD Smart India Hackathon 2018	22/06/2018	project presentation in Automatic Railroad Cleanbot
Mentor	NEC	AICTE	07/12/2018	Mentor

Institute Margdarshak				institution
MSMETHON	B.Arunraj, K.P. Sivasankaran, T.Yuvaraja, T.vigneshwaran, III MECH	MSME	24/01/2019	First prize
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3.3.3 – 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
Startup	Autowelkin Pvt.Ltd	NEC BI	Goldnwelkin Private Limited	Spareparts, Tools	09/03/2018
NECE Nanolitho Design Centre	Nanolitho Design Centre	Nanolitho Technologies Pvt. Ltd., Bengaluru	NECE Nanolitho Design Centre	Placement, Internship Research	23/11/2018
BizPlus Services Incubation Centre	BizPlus	Bizplus Services, Chennai	BizPlus Services Incubation Centre	Placement, Internship Research	18/05/2018
Adroit Innovation Centre	Adroit	Adroit Soft India Pvt. Ltd., Chennai	Adroit Innovation Centre	Placement, Internship Research	22/11/2018
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
B.E. – Mechanical Engineering	7
B.E. – Electrical and Communication Engineering	3
B.E. – Electrical and Electronics Engineering	5
B.E. – Electronics and Instrumentation Engineering	4
B.Tech. – Information Technology	6
Science and Humanities	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Mechanical Engineering	13	5.0
National	Electrical and Communications Engineering	12	2.8

National	Computer Science and Engineering	10	1.5
National	Electrical and Electronics Engineering`	12	4.2
National	Electrical and Instrumentation Engineering	4	2.0
National	Information Technology	10	4.2
National	Science and Humanities	5	3.5

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

Department	Number of Publication
BE. Electrical and Electronics Engineering	4
B.Tech. Information Technology	15
BE. Electrical and Communications Engineering	12
BE. Electrical and Instrumentation Engineering	8
BE. Mechanical Engineering	7
BE. Computer Science and Engineering	10
Science and Humanities	8
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Solid waste collecting system for open sewage	Published	285447	09/04/2019
Automated Approach to Tune PID Time Delay Compensated Controller for Gain Margin Specification	Filed	2018410250	05/07/2018
Light Weight High Strength Brick with Mechanical Interlocking	Filed	2018410376	05/10/2018
Water Tank Cleaning Device	Filed	2018410376	05/10/2018
Multipurpose Domestic Cleaner	Filed	2018410376	05/10/2018
Smart Device for Blind	Filed	2018410376	05/10/2018

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3.4.5 – 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
Performance analysis and energy metrics of gridconnected photovoltaic systems	Mr.P.Ramanan, Dr.K.Kalidasa Murugavel, A.Karthick	Energy for Sustainable Development	2019	3.307	National Engineering College	33

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3.4.6 – 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
Fault diagnosis of selfaligning toughing rollers in belt conveyor system using kstar algorithm	S.Ravikumar, Dr.H.Kanagasabapathy V.Muralidharan	Measurement	2019	0	0	National Engineering College

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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	35	80	20	20
Presented papers	49	17	0	0
Resource persons	0	33	11	0

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Mechanical Engineering	Apex Design Centre, Coimbatore	Design and analysis of dust test	125000

		chamber	
Information Technology	Tata Power strategic Engineering Division, Bangalore	Services in the area of Intelligence	360000
Electrical and Electronics Engineering	Mepco Schlenk Engineering College, Sivakasi	Breakdown Voltage test	1500
Electrical and Electronics Engineering	Kamaraj College of Engineering and Technology, Virudhunagar	Breakdown Voltage test	1000
Electrical and Electronics Engineering	Apex Design Centre	Design and development of filter shaker	50000
Electrical and Electronics Engineering	Apex Design Centre	Analysis of output torque of gear reduction and VFD	25000
Civil Engineering	Ramco Cements Limited	Concrete Testing	5000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Nil	Nil	Nil	0	0
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3.6 – Extension Activities

3.6.1 – 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
Indhradhanush Awareness Program @ Ettayapuram	NCC	2	30
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3.6.2 – 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
CligTriX Challenge'19	I prize with cash amount of Rs. 1,00,000/	Zoho Corporation, Chennai	2
MSMETHON 2019	I prize in Design	MSME	4
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3.6.3 – 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
Swachh Bharat	NSS Club, National Engineering College, Kovilpatti	Cleaning work in Temple, School, Play ground premises of Villiseri village	2	100
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Paper Publications	66	0	1
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3.7.2 – 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
Internship Training with stipend	Internship	Tessolve semiconductor pvt ltd, Bangalore	07/01/2019	15/06/2019	3
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
M/s. QASSURE Technologies, Singapore	07/12/2018	Student training and placement	10
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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
271	237

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Video Centre	Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added

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
InsproPlus	Fully	6.1	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	59100	18380760	970	401333	60070	18782093
Reference Books	1067	0	7	0	1074	0
e-Books	875	0	1268	0	2143	0
Journals	125	334095	9	39378	134	373473
Digital Database	150	544965	2	468	152	545433
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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
ALL FACULTY MEMBERS	Google class room/ Moodle	LMS	03/06/2019

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1603	1222	282	83	139	45	68	282	46

Added	15	5		5	5				
Total	1618	1227	282	88	144	45	68	282	46

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

282 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
ERP	https://erp.nec.edu.in/std/
Feedback for Teaching Learning	172.16.11.11/feedback
R D portal	https://nec.edu.in/research/
Faculty Recruitment	https://nec.edu.in/faculty/
Faculty Appraisal	172.16.11.11/FPAS
NECAMS	http://nec.edu.in/college_automation/index.php
Grievances	http://css.nec.edu.in/grievance/
Choice Based Credit System (CBCS)	https://nec.edu.in/wp-content/uploads/2019/07/UG-R-2015-amended-11th-AC-meet.pdf

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
4.67	5.03	2.55	5.17

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)

The College ensures the availability of the latest equipment and upto date infrastructure on the campus. There is a systematic procedure for the purchase as well as maintenance of these infrastructural facilities including all sorts of equipments which is as follows: 1. Submission of the requirement in the form of a proposal 2. Evaluation by Purchase Committee and Maintenance Committee 3. Approval by the Principal 4. Call for quotations and verification of prices and availability of the items 5. Approval from the Management 6. At the end of financial year, stock verification is undertaken for various departments, and a detailed report is compiled. Based on this policy the perspective plan for the maintenance, repair, writing off and purchase of relevant infrastructure facilities is formulated (refer web site) 7. The College maintenance team regularly monitors and supervises the available infrastructure and ensures its upkeep, repair and other maintenance of the infrastructure. 8. Round the clock Security of the College aids in keeping the College infrastructure secure. 9. Fire Extinguishers have been installed at identified locations. 10. Safe and Clean Drinking Water is ensured through ROs and Water Coolers. Physical facilities The comprehensive infrastructure facility of the College is constituted by elementary features like buildings, classrooms and playgrounds, Administrative office, Auditorium, and advanced attributes like ICT enabled classrooms and laboratory facilities, etc. The physical facilities are made

available for the students those who are admitted in the college. Sometimes it is also made available for the other governmental and the nongovernmental organizations for conducting the exams and training based on the availability.

The maintenance and the cleaning of all the blocks including classrooms, laboratories, and garden are done with the efforts of the nonteaching staff appointed for the abovesaid purpose. A separate wing headed by a Maintenance engineer will supervise the work. Academic and Support Facilities The academic support facilities like library, the sports and the other platforms supporting the overall development of the students like NSS or Competitive examination cell, etc. is open to the students by 24x7. Accession to the library is permitted for both students and faculties by producing id proofs. A provision of the budget for library maintenance is made by the college management. The department of physical education has adequate infrastructure consisting of the indoor Hall, 400 meter running track and various play grounds including Hockey which can be used by student, staff and the local community. The physical education department of our Institution is facilitated by the physical director, directress and coaches to engage the students in physical activities. The cost of maintenance is done by the Management of the college. A multistage gym has been established on behalf of the physical education department and two single station Gyms were established and both ladies and men hostels. Academic facilities Each department is provided with separate block which accommodates class rooms, laboratories, research laboratories , smart class rooms and seminar halls. The Heads of the respective Departments superintend the research, PG and UG laboratories.

www.nec.edu.in

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	Meritorious Scholarship	3	135000
Financial Support from Other Sources			
a) National	Tamil Nadu Government Scholarship	822	11632200
b) International	Nil	0	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
Soft skill Development	18/06/2018	2000	College Placement Cell
BEC Course	21/08/2018	287	British Council Ebek, Trichy
Personal Counseling	25/06/2019	10	Mrs.V.Vasantha Lakshmi, Personal Counsellor
Yoga	02/07/2018	418	Sky, Alya

Mentoring	20/07/2018	2580	Faculty members
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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
2018	Gate Forum Career Guidance Cell	1406	1320	15	311
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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
0	0	0

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
75	536	296	TCS, WIPRO	536	15
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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
2019	74	B.E. / B.Tech.	Mechanical, ECE, CSE, EEE, EIE, IT, Civil	Higher Education	M.E. MBA, PGDM and others
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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	3
CAT	6
Any Other	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
Ball Badminton (Women)	Inter Zone	7
Table Tennis (Women)	Inter Zone	8
Badminton team (Men)	State Level	12
Badminton team (Men)	Anna University, Chennai Zone 18 Anna University, Chennai Zone 18	6
Basketball team (Men)	Anna University, Chennai Zone 18	12
Chess team (Men)	Anna University, Chennai Zone 18	5
Hockey team (Men)	Anna University, Chennai Zone 18	18
Yufonec 2019 (Cultural fest)	Intra - collegiate level	206
No file uploaded.		

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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Nil	National	0	0	Nil	Nil
2018	Nil	International	0	0	Nil	Nil

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

In our college, there is no separate student's council however students have been given enough space without gender bias to represent their views in the college decision making bodies, such as Academic Council, Board of studies and IQAC. In all the bodies' including IQAC, student representatives from each program are included. Students can directly interact with the members of the council and give their opinion. This forum also suggests the student members to interact with their fellow friends and asks them to present their grievances in a collective manner. The Individual student's views are also recorded in the minutes of the meeting. Before taking any final decision on important issues, the Principal, experts and the members from the management with the concern of the students give their approval. Further, Students give their representation in the Class committee which includes faculty members, students with good academic and slow learners. The class committee gives full freedom and wisdom for the students to define and plan their teaching learning process including defining evaluation procedure for the continuous assessment. In addition to that students have been given full autonomy to elect members for the association, Technical Chapters and club activities such as Ract, Red Cross and so on. Through these clubs more than 132 activities have been conducted every year to enhance various skills of the students. Students act as organizers and volunteer many programmes In addition to all, students play important role in hostels also in the development facilities as well as day to day activities. The student committees have been formed to monitor mess,

maintenance, hostel library, computer centre and recreation activities.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

? NEC Alumni association was started in the year 1991. ? The Alumni Association was registered with Tamil Nadu society on 01.06.2006, Society Registration No: 54/2006. ? Alumni Chamber is established with world class audio/video conference facility with 200 seats capacity in the campus on 030814. Alumni members regularly connect and share their experiences to the Students/ Faculty through this chamber. ? The association has various chapters at Chennai, Bangalore, UAE, Kuwait, Singapore and the general body meet is conducted once in a year in which all members present and discuss the activities and progress of the association. ? Silver Jubilee Reunion is organized and celebrated every year (5 Batches completed). ? Conducts Seminar on latest trends in industry. ? Financially assisting in innovative projects. ? Provides job opportunity through our Alumni.

5.4.2 – No. of registered Alumni:

13000

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

116000

5.4.4 – Meetings/activities organized by Alumni Association :

- Annual General Body Meeting (AGM) which is scheduled at MCC School auditorium, Chetpet, Chennai on 10.06.2018
- 1993 batch Reunion celebrated on 06.07.2018
- Office Bearers Meeting celebrated on 06.07.2018
- Interaction with ECE EIE students 2002 batch alumni meet on 27.07.2018
- Delivering lecture on the topic Infrastructure and storage management for final year IT and CSE students 2002 batch alumni meet on 02.08.2018
- Interaction with ECE ,EEE,CSE 180students @ CSE Seminar hall topic: machine learning 1989 batch alumni meet on 12.12.2018
- Annual General Body Meeting (AGM) which is scheduled at Bangalore on 12.05.2019

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)

Empowering facultycentered practices: Heads of the departments are empowered to prepare budget for their department with the consultation of senior faculty and lab incharges. Further to guide the HODs, a departmental level committee has been constituted to review the requirement of purchasing of equipments for laboratories, Research and for regular maintenance activities. Faculty members are given authority in various committees/cells and allowed to conduct various programs. They are encouraged to develop leadership skills by being in charge of various academic, cocurricular, and extracurricular activities. They are given full rights to conduct industrial tours relevant to their courses and to have tieup with industrial experts and appointed as coordinator and convener for organizing seminars/workshops/conferences/FDPs. Faculty members are given authority to do their Research works in their area of interest in addition to that, it is also given rights to set up Research centers with the support of Research funding or the management funding.

Empowering studentscentered practices: Through Choice Based Credit System, Students are given freedom to choose the elective courses as well the faculty members for any course.

Students can have freedom to transfer credits earned through online courses like NPTEL, Coursera, etc., Further, they have been provided with adequate support to choose their career as Entrepreneur / Higher studies / placement / preparing for competitive examinations. Students have been given enough representation in the highest decision making bodies like Academic council, Internal Quality Assurance Cell and Board of Studies. Students are also empowered to play an active role as a coordinator of cocurricular and extracurricular activities, social service group coordinator.

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
Curriculum Development	Efforts have been taken to develop new curriculum for Regulation 2019 by giving special importance for Artificial Intelligence, basic courses and science courses.
Curriculum Development	The entire curriculum for Regulation 2019 has been planned with comprising 65 of theory courses and 35 of the practical courses
Teaching and Learning	Product development laboratories are introduced in every department
Teaching and Learning	Live demos and animations are included in teaching process
Teaching and Learning	Google class room teaching has been insisted to adapt for all the courses
Teaching and Learning	Online courses like NPTEL, Coursera etc., are insisted to do by all the faculty members every year
Examination and Evaluation	Evaluation of marks encompasses internal marks through continuous assessment and external marks scored in End Semester Examination
Examination and Evaluation	Automation of the examination cell to ensure timely declaration of results to keep the academic calendar on schedule
Examination and Evaluation	Dummy number system has been followed in Semester exam valuation to keep the honesty in valuation
Research and Development	Every program has separate research centre approved by Anna University except Civil Engineering
Research and Development	Incentives for research publications and research projects are provided
Research and Development	To promote R D activities, progress review is conducted for faculty members having Ph.D degree and research scholars

Library, ICT and Physical Infrastructure / Instrumentation	In the academic year 201718, Central library is added with a. 1703 books are newly added that worth Rs. 8,21,677/. b. 125 Journals subscriptions that worth Rs. 3,73,473/ c. EJournals to the worth of Rs. 14,79,898/
Library, ICT and Physical Infrastructure / Instrumentation	Every department has individual smart class room that worth Rs. 2 Lakh
Library, ICT and Physical Infrastructure / Instrumentation	Books exhibition is arranged every year thro' vendors at campus to identify the quality books
Library, ICT and Physical Infrastructure / Instrumentation	Special books have been exclusively purchased for Entrepreneurship Development of worth nearer to Rs. 1 lakh
Library, ICT and Physical Infrastructure / Instrumentation	Central library and department libraries are equipped with Airconditioner
Library, ICT and Physical Infrastructure / Instrumentation	Every department has individual airconditioned seminar hall with LCD projector, smart TV and computer system with internet connection
Human Resource Management	Recruitment of faculty and staff are based on the guidelines provided by Anna University and AICTE, New Delhi
Human Resource Management	There are many staff welfare schemes namely EPF, Group insurance and Accidental policy
Human Resource Management	Sponsorship of Higher Studies for Faculties. Organizing Developmental training programme and workshops/seminars for enhancing the multiskills of faculties
Human Resource Management	Effective appraisal system has been followed to assess the performance of faculties. Faculty members are promoted to higher positions based on their experience, skills and achievements
Industry Interaction / Collaboration	The Institute has collaboration with the following industries of repute at both national and International level, ? Apex Design Centre, Coimbatore ? CM Enviro systems, Bangalore. ? SumTwo Software Private Limited, Madurai
Admission of Students	The students are admitted according to the Anna University / Tamil Nadu Government/ AICTE Norms

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

E-governance area	Details
Planning and Development	? HR Management ? Online faculty recruitment process

Administration	? Academic Management ? Hostel Management ? Performance reports, Access reports, online Entries and Enquiries ? Online leave apply and approval
Finance and Accounts	? Finance Management
Student Admission and Support	? Central Library Management ? Student Management ? Automatic SMS for absentee, ecircular notifications ? Online web portal for staff and students
Examination	? COE Administration ? Certificate Issue

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
2018	Mr.T.Devakumar	Image processing and Machine Learning	Workshop at MIT, Chennai	1500
2018	Mr.V.Sivakumar Mr.A.Shenbagaraman Mr.K.Maharajan	GIAN Course on Cyber Security Trends and Technologies	IIT Patna	11000
2018	Mr.R.Ganesh	Industrial Training - Zolt Energy Pvt. Ltd. Solar Energy Panel	Industry Know How	2500
2018	Ms.J.Abisha, Mr.B.Ganapathy Ram	Communications System Design for Teaching Research using NI USRP SDR platform	Coimbatore Institute of Technology in association with National Instruments	13000
2018	Mrs. S.D.Jayavathi, Ms.S.Karthika, Mr.I.Vivek Anand	Analog IC Design Layout Design using Cadence	Industry know how Entuple Technologies, Bangalore	22494
2018	Dr.A.Shenbagavalli, Ms.P.Vijayalakshmi Mr.N.Arumugam, Mr.A.Saravana Selvan	International Test Conference, India 2018	ALTRAN Technologies, Bangalore	28000

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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges 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)
2018	Workshop	Attainment of short term goals for the current academic year, set targets for the next academic year and strategic planning to achieve the targets and goals	01/06/2018	01/06/2018	80	0
2018	Workshop	One day workshop on Attaining the targets	04/06/2018	04/06/2018	70	0
2018	Training programme	Faculties Core course and delivering basic concepts	05/06/2019	05/06/2019	60	0
2018	Workshop	One day workshop on Technology enabled learning	06/06/2018	06/06/2018	45	0
2018	Training programme	Writing project Proposals Converting Research Writing to Publication	07/06/2018	07/06/2018	150	0

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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
Short term course on Introduction to Power Electronics at University of Colorado	35	20/12/2018	20/12/2018	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
30	30	20	20

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Transport facilities • Staff Quarters • Medical and Maternity Leave • EPF • Medclaim policy • Group gratuity 	<ul style="list-style-type: none"> • Transport facilities • Staff Quarters • Medical and Maternity Leave • EPF • Medclaim policy • Group gratuity 	Scholarships like SC/ST, first graduate etc., Medical Insurance Policy for students and parents. <ul style="list-style-type: none"> • Prof.S.Kannappan Memorial Scholarship for academically excellent and poor student. • Alumni scholarship for poor student • Alumni award for best project

6.4 – Financial Management and Resource Mobilization

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

A financial committee has been constituted once in two years to allocate funds for various activities and it was placed before the Governing council for getting approval. At the end of the financial year, the overall account details are audited by a chartered audited accountant.

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
Alumni Fund	95000	Students' best Project award, Students' Scholarship
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6.4.3 – Total corpus fund generated

0

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	IQAC Peer Review Team	Yes	Faculty Development Section
Administrative	Yes	TQM Team	No	nil

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

? General Body Meeting of Parent Teachers Association was held on 29.07.18 at 11.30 am ? General Body Meeting of Parent Teachers Association was held on 03.02.19 at 11.30 am ? Executive committee members meetings was held on 29.07.2018 03.02.2019 at 10 am ? Parents are informed about CBCS, OBE, Gate coaching and Aptitude training etc.,

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

? "ReEngineering of attitude, skills and knowledge" : HR Training - 22.12.2018
05.01.2019

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

? Procedure for Credit Transfer is defined ? Student Leadership development programme is organized to enhance the employment skills ? Procedure has been defined to identify slow learners ? Entrepreneurship activities are motivated for self employment.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	No
b) Participation in NIRF	Yes
c) ISO certification	No
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	External Peer Review Meeting	03/08/2019	03/08/2019	03/08/2019	16
2019	15th IQAC Meeting	16/02/2019	16/02/2019	16/02/2019	31
2018	14th IQAC Meeting	07/07/2018	07/07/2018	07/07/2018	27
2018	Interaction of Principal with the 2nd and 3rd year students to get the feedback regarding academic	03/10/2018	03/10/2018	03/10/2018	42

	performance and other facilities provided to the students				
2019	Interaction of Principal with the 2nd and 3rd year students to get the feedback regarding academic performance and other facilities provided to the students	05/01/2019	05/01/2019	05/01/2019	42
2019	Interaction with the final year students to get the feedback regarding academic performance and other facilities provided to the students	12/02/2019	12/02/2019	12/02/2019	42

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
Womens' Day Celebration	08/03/2019	08/03/2019	1200	0

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
About 5 of power utilization through Solar Energy and Energy Conservation

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	No	0
Provision for lift	No	0
Ramp/Rails	Yes	0

Braille Software/facilities	Yes	3
Rest Rooms	No	0
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0
Any other similar facility	No	0

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
2018	1	1	21/11/2018	1	MHRD - Institution Innovation Council	For Economic Development	2500

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
NEC Bulletin	11/06/2018	Students are generally following the code of conduct correctly and if any misconduct, students are advised through the mentor. If any violation, discipline committee do the enquiry and necessary actions will be taken.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Management Development Training programme on "manage Life creatively"	05/02/2019	06/02/2019	200

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

Campus landscape has been carried out for the worth of Rs. 60 lakhs.
One Day Colectate Meeting on Antiplastic Campaign Meeting was conducted on 05th June 2018
Teachers day celebration (Healthy relation) on 05th September 2018.
Toilet Awareness Programme on (Clean Environment) on 27th September 2018.
Tree Plantation Camp (Promote Green) Awareness on 23rd September 2018
Genetically modified Plants {Modern agriculture} on 02nd January 2019

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

? Implementation of Choice Based Credit System for International recognition of students and job opportunities ? Transparency in Evaluation System ? Online one credit courses transfer system. 1. The Curriculum and Syllabi under Regulations 2015 is designed keeping in mind the Outcome Based Education (OBE) and Choice Based Credit System (CBCS). The CBCS enables the students to earn credits across programmes and provides flexibility for slow and fast learners in registering the required number of credits in a semester. The CBCS facilitates transfer of credits earned in different departments / Centers of other recognized / accredited universities or institutions of higher education in India and abroad either by studying directly or by online method. 2. Before the publication of End Semester results, the students are allowed to verify the answer scripts of all subjects. This practice depicts the transparency of evaluation process. 3. Students can study one credit elective courses offered by the department itself or online course like NPTEL, MOOC, swayam etc., or in collaboration with the industry. Three elective courses of 1 credit shall replace a 3 credit elective course. Through this system, students can complete their courses early and the students can able to undergo internship/industrial training in 8th semester. While completion of course, students can get industrial exposure, campus placement along with the degree.

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

[http://nec.edu.in/academic/UG%20R-2015%20\(amended%209th%20meet\).pdf](http://nec.edu.in/academic/UG%20R-2015%20(amended%209th%20meet).pdf)

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

Product Development and Entrepreneurship is one of the distinctive characteristic programs in our Institution. As a part of vision and mission of our college to produce industryready students, we have introduced Product Development and Entrepreneurship activity as a part of curriculum. A systematic plan has been formulated for the implementation of this program. Further, to build these traits, the following courses have been included in the curriculum.

1. Product Development Laboratory: This course is designed for students to identify, design and fabricate a product which is more useful to the rural society 2. Live inLab: This course is designed to support rural societies under the Scheme of swatchh Bharath. The batch of 5 to 6 students can go to a village adopted by the Institution and stay there for few days and they can interact with the village people. After that they have to identify a problem and then the solution to the problem may be given as report. Based on the nature of the work proper credit can be claimed by the students from the institution form the Institution 3. Product Design and Development : This course is designed to inculcate product development skill for the students 4. Critical and Creative Thinking Course: This non credit course is designed both for the students and faculty. This Course will provide skill and knowledge to the students and faculty to motivate them to develop a product. Further, to motivate the students community, the college has taken the following initiatives: 1. Established the entrepreneurship development cell (EDC) in the Year 2013. 2. The college has been approved as Business Incubator/Host institution by MSME, New Delhi during 2015. Through this forum, our college is currently supporting five alumni to develop five products to the worth of 29.39 Lakhs. 3. The college has been approved as NEWGEN IDEC, Supported by NSTEDB and DST,

Government of India, New Delhi. Through this scheme, college can support students to develop 85 projects to the worth of Rs. 2.5 Lakhs each over a period of five years. 4. Funding of Innovative projects through Alumni association and presenting innovative project awards through alumni association 5. Established CDIO laboratory to develop products 6. Steps have been taken to establish product development laboratory in each department with the support of Institution. In addition to that, the college has signed MOU with the following alumni entrepreneurs to establish incubation centers for Product development at the campus 1. M/s Apex Design, Coimbatore 2. M/s Bizplus services, Chennai 3. M/s. River silica, Bangalore 4. M/s Sum TWO software Pvt Ltd, Madurai Outcome: 1. The institution has developed more than 1015 products with financial support from various Government funding Agencies. 2. Two of our students (Mr.S.Pradeep Kumar, Mr.M.Manoj Sabareesh) Third Year CSE participated in the CliqTrix Challenge` 19 organized by Zoho Corporation, Chennai 1st prize with cash award Rs. 1,00,000/

Provide the weblink of the institution

www.nec.edu.in

8.Future Plans of Actions for Next Academic Year

Students' performance: 1. More than 85 of the students should be placed with medium salary of 4 lakhs per annum 2. More than 20 of the students should get eligible scores in competitive examinations like GATE, Tofel, CAT, MAT, etc., 3. More than 3 of the students should be motivated / trained to become an entrepreneur. Research Development: 1. Each department should have ongoing RD projects worth > 15 lakh. 2. Each department should have ongoing industrial consultancy work worth Rs. 3 lakh. 3. Faculties should be motivated to publish the research articles in high impact factor journals. 4. All the faculty members should be encouraged to participate / present articles in international conferences / workshops / FDPs organized by other leading institutions. 5. Each department should organize Conference / workshops / FDP in every academic year. Institute - Industry interaction: 1. Every department should sign MoU with minimum 2 companies per year. 2. More number of students should be encouraged to undergo inplant training / internship program / industrial projects 3. Every department has to develop at least one product every year. 4. Every year, it is proposed to initiate a start up through our alumni and faculty.