Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**New Horizon College of Engineering**
Name of the head of the Institution	**Dr. MANJUNATHA**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	08066297777
Mobile no.	9901916000
Registered Email	**dean_mee@newhorizonindia.edu**
Alternate Email	**principal@newhorizonindia.edu**
Address	**New Horizon College of Engineering, RING ROAD, BELLANDUR POST, NEAR MARATHALLI, BENGALURU, KARNATAKA, 560 103**
City/Town	**Bengaluru**
State/UT	**Karnataka**

Pincode	**560103**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**10-Jul-2015**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr Gopalkrishnan K**
Phone no/Alternate Phone no.	**08066297777**
Mobile no.	**9845173730**
Registered Email	**dean_mee@newhorizonindia.edu**
Alternate Email	**dean_research@newhorizonindia.edu**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://newhorizonindia.edu/nhengineering/wp-content/uploads/2018/06/NHCE-AQAR-report-for-NAAC.pdf
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://newhorizonindia.edu/nhengineering/calender-of-events/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.23**	**2016**	**29-Mar-2016**	**28-Mar-2021**

6. Date of Establishment of IQAC	**15-Oct-2014**

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
Unigraphics NX essential training	18-Dec-2018 5	56
CFD Certification Training	17-Dec-2018 4	54
Three weeks student induction program was conducted for first year B.E students as per the frame work set by AICTE	22-Jul-2018 21	999
awareness on world ozone day and social outreach activities on world cancer day through student clubs	22-Sep-2018 1	30
Swachhta awareness Campaign	02-Oct-2018 1	200
workshop on Green Technology	05-Oct-2018 1	132
Test 360 by Technology Sharing club	22-Sep-2018 1	250
IoT and Embedded system training program using Texas Instruments technology and ASLK training on	02-Nov-2018 2	25
Solar Power Plant	04-Sep-2018 1	118
Orientation Program for the Pre-final year students	28-Dec-2018 1	50
Industrial Automation Using Schneider Plc	29-Jan-2019 2	15
Exploring Global Higher Education	21-Feb-2019 1	30
Various Opportunities and Advantages of GATE Exam	14-Feb-2019 1	37
E-UTKRANTI-2019	03-Apr-2019 1	500
Glimpses of the DRDO & Job opportunities for Electrical Engineering students in the present scenario	10-Apr-2019 1	128
Mini project competition	09-Nov-2018 1	36
FDP on Machine Learning &	07-Dec-2018	25

AI -Fundamentals for NHCE faculty	1	
VTU sponsored FDP on big data analytics	21-Jan-2019 5	30
Coding Contest in Java under CSI	20-Feb-2019 3	200
Faculty Development Program on	17-Dec-2018 4	35
Hands-on Workshop on .Net Applications	17-Sep-2018 4	150
PCB Design, CNC Automation, Android Application and IoT certification training	27-May-2019 10	100

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
BSH	KSTePS /VGST–RGS/F/GRD No.730/2017–18. Dt: 27.08.2018 Received on 25/09/2018, Cheque: 384929 dt 15.09.2018. 2 Years Project	RPS	2018 1	500000
MCA	Data Acquisition and Control System, (FDP-4 Days).	VGST - FDP	2018 1	200000
Civil Engineering	Brainstorm of Good Practices in Geotechnical Engineering	Indian Geotechnical Society	2018 1	20000
Computer Science & Engineering	Big Data Analytics (FDP-5 Days). VTU Sponsored FDP. 21-25 January 2019	VTU	2019 1	25000
Electronics & Comm. Engineering	Dr. Nisha KCR: Travel Grant Scheme (TGS	AICTE	2019 1	126000
Computer Science & Engineering	National Conference on Advancements in Computer Science & Engineering	Industries	2019 1	20000

		held on 24 April 2019			
Electrical & Electronics Engineering	Dr. Sujitha. S: National Conference on Research Perspectives: IOT in Hybrid Grid Integrated Renewable Energy Sources, Grant for Organising Conference (GOC)	AICTE	2019 1		500000
MCA	Agricultural led Rural Development "AgRuTech 2018", Conducted/Sponsored by IBM, IBM OpenPOWER Foundation and the Indian Technology Congress Association at NHCE during 10-11 April 2018	IBM	2018 1		1200000
MCA	Karnataka Smart Village Hackathon Conducted at NHCE during 10-11 April 2018, Sponsored by Government of Karnataka, IBM OpenPOWER Foundation and the Indian Technology Congress Association	IBM & GoK	2018 1		950000
R & D	Travel Grant to Dr. K. Gopalakrishnan, Dean (R&D), NHCE has visited The Herzliya Science Center, Israel during 3-7 June 2018	ITC	2018 1		180000

	as part of Indo-Israel Delegation with the Support of Indian Technology Congress Association (ITCA			
R & D	Sponsored Event: Innovation Technology Awards of Bangalore Chamber of Industry and Commerce (BCIC) held on on 14 June 2018 at NHCE	BCIC/FEE	2018 1	500000
R & D	"Space Lab for Satellite Aptitude Test (SAT) On Wheels" 25 July 2018, 7DPlus Technology Company and 75 Students' Satellite Consortium of ITCA /UNISEC (2 Years Project)	ITCA, UNISEC BRICS FEO	2018 2	6500000
R & D	6th Indian Technology Congress 2018 held at NIMHANS Convention Centre, 5-6 September 2018	ITCA, NHECT	2018 1	500000
R & D	1st International Seminar on Students' Satellites held at NIMHANS Convention Centre, 5-6 September 2018	ITCA Consortium AIU	2018 1	700000
R & D	Hands-on Education Program for Technical Advancement: HEPTA-Sat	ITCA UNISEC Planet Aerospace	2018 2	1500000

	Training Kit as Class Room Satellite (Engineering Model Prototype for Testing) 2U + ADSB with D'vine Research Labs and ITCA Consortium/UNISEC India			
R & D	Development of "Single Card Satellite-Bus (SiCS-B)": 10 cm x10 cm (Timeline: 18 Months). Indo-Israel Joint Development	ITCA, DRL, UNISEC India	2018 1.5	15000000
R & D	Design and Development of CubeSat 2U; ADSB including Launch Cost; Indo-Israel Joint Development under UNISEC India, ITCA Consortium	ITCA, EDAF, DRL, UNISEC	2018 1	26000000
Bio Technology	A coupled process integrating heavy metal bioremediation and biodiesel production using oleaginous micro algae	KSCST	2019 0.5	10000
Mechanical Engineering	A comparative study of the properties and effects of different blends of Bio-Diesel on Crankcase lubricant and perform exhaust gas analysis for the same.	KSCST	2019 0.5	7000
Mechanical Engineering	Design and fabrications of machine to	KSCST	2019 0.5	11000

	convert plastic into oil and gaseous fuel production			
Mechanical Engineering	Improvisation on physical and combustion properties of fuel briquette from pongamia and glycerin mixing different binders	KSCST	2019 0.5	5000
Mechanical Engineering	Augmenting the life of polymer material used in 3D Printers by using reinforced polymer material in FDM Technology	KSCST	2019 0.5	6000
Mechanical Engineering	Smart conveyance for physically challenged people	KSCST	2019 0.5	6000
Mechanical Engineering	Design and Fabrication of an Artificial Leg Mechanism for above knee amputees	KSCST	2019 0.5	7000
Automobile Engineering	Use of Bio-lubricants in ATV	KSCST	2019 0.5	5000
Automobile Engineering	Replaceable diesel particulate filter	KSCST	2019 0.5	7000
Mechanical Engineering	Design and fabrication of portable solar operated water purification unit	KSCST	2019 0.5	7000
Mechanical Engineering	Design and fabrication of a tadpole model solar powered tricycle	KSCST	2019 0.5	7000
Mechanical Engineering	Design and Development of	KSCST	2019 0.5	6000

	human arm exoskeleton			
R & D	Hands-on Education Program for Technical Advancement: HEPTA-Sat Training Kit as Class Room Satellite (Engineering Model Prototype for Testing) 1U with ITCA Consortium and UNISEC India	ITCA, DRL, UNISEC India	2018 1	900000
R & D	Students' Satellite Competition with the Support of Indian Technology Congress Association (ITCA) and UNISEC India	ITCA UNISEC India	2018 1	1000000
R & D	Funding for Publication: Compendium of Students' Satellites Book Published by WFEO and ITCA	WFEO/ITCA	2018 1	425000
R & D	Funding for Publication: Industry 4.0 Book Published by WFEO, IIPE and ITCA	WFEO/ITCA	2018 1	175000
R & D	2nd International Programme on Students' Satellite: Mission 2022 held at Sir MV Auditorium, FKCCI, Bangalore, 28-29 November 2018	ITCA/FKCCI UNISEC India	2018 1	500000
Electronics & Comm Engg	Marine Technology Society: Seed	MTS India	2018 1	195000

	Money for Chapter from MTS India			
Mechanical Engineering	Technical Design Support (HVAC Low Side) for Dr. Anil Villa, Kochi (Applicable Consultancy Charges)	IIPE	2019 1	500000
R & D	Travel Grant to Dr. K. Gopalakrishnan, Dean (R&D), NHCE has visited Israel during 11-14 February 2019 as part of Indo-Israel Space-Tech Leadership Programme Delegation with the Support of Indian Technology Congress Association (ITCA)	ITCA, DRL, UNISEC India	2019 1	200000
Mechanical Engineering	Experimental study of acetylene and alcohol as an alternate fuel for gasoline engine	KSCST	2019 0.5	11000
MBA	Skill & Development Programme Center for SC/ST Students (SPDP)	AICTE	2017 2	625000
Computer Science & Engineering	FDP on Research Frontiers in Advanced Networking, Security and IOT- A tool driven Approach. (Grant in Aid Rs.7 Lakhs in 2 Installments) Rs. 3,50,000	AICTE	2017 2	350000

Mechanical Engineering	Research Promotion Scheme: Multipurpose Compact Solar Fruit Dryer.	AICTE	2017 2	20206
Electrical & Electronics Engineering	Modernization and Removal of Obsolescence Scheme (MODROBS).	AICTE	2017 2	267633
Bio Technology	Modernization and Removal of Obsolescence Scheme (MODROBS).	AICTE	2017 2	330000
Bio Technology	Design of Pyrolysis Reactor for Synthesis of Biodiesel from Poultry Waste (Chicken Feathers) and Engine	KSCST	2019 0.5	10000
Electronics & Comm. Engineering	Investigations Along With Design, Development and Testing on Use of Current Source Inverter (CSI) (1kw, 440 V) for Grid Connected Solar PV for Residential/Apartment Applications, under IEI R&D Grant-in-Aid Scheme, The Institution of Engineers (India)	IEI	2018 1	35000
Electronics & Comm. Engineering	Investigations on use of Current Source Inverters (CSI) for Grid connected Solar PV for Residential/Apartment applications.	VGST RPS	2018 1	500000
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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)

• Periodic reviews are conducted by IQAC (Internal and External) Audits to improve the quality of teaching and learning process. • IQAC has improved the Quality of project proposals submitted for Sponsored research and development funding. • IQAC has played significant role in fine tuning the curriculum design and development to upgrade the quality. Also rubrics have been evolved for Outcome based education. • IQAC has played an active role in organizing "Quality" technical events such as Conferences, workshops and seminars in association with various professional bodies

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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
Three weeks student induction program was conducted for first year B.E students as per the frame work set by AICTE	1085 students benefitted from the program organized from 22.07.2018 to 14.08.2018
TECHORIZON	Conducted successfully on 27th April 2019.
FDP on "Promoting varied approaches for teachinglearning process" for the Teaching Staff of New Horizon College of Engineering MCA	Successfully completed from 9th to 18th January 2019 in 5 batches
Conducting classroom teaching observation of faculties of different departments	Successfully completed on 6th January 2019
Organized an awareness program on	Successfully completed for all Lab

'requirement of appropriate and professional behaviour towards students' for all the Lab Instructors/ Lab Assistants	assistants of NHCE on 3rd November 2018
Conducted classroom teaching observation of faculties of NHCE	Successfully completed from 9th October to 5th November 2018
FDP on "Performance Enhancement" for the Teaching Staff of New Horizon College of Engineering	Successfully completed on 6th 7th September 2018 (fifth batch)
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing Council of the Organisation	03-Jun-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**

Date of Visit	**11-Feb-2019**

16. Whether institutional data submitted to AISHE:	**Yes**

Year of Submission	**2018**

Date of Submission	**12-Sep-2018**

17. Does the Institution have Management Information System ?	**Yes**

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**The Institution uses a Management information system to share the information about students and faculty through "CONTINEO" and "HRMS" software. • Student and faculty profiles, Faculty Workload details, Class Time table, Faculty Timetable are maintained using the contineo software. • The examination management system is also computerized. Hall tickets generation, Exam allotment and result publication are automated through Contineo. • Student registration records, marks grades, student progression data, internal Assessment details, progress reports, Attendance details are maintained and shared in Contineo. • The staff profile, Personal and**

Professional details, attendance and leave status, paper publications and presentations in National/International Journals/Conferences, workshops and seminars, books published, patents, MOOCs courses, Faculty Development Programs, achievements, payroll etc are managed through HRMS software.

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	AU	Automobile Engineering	29/06/2019
BE	BT	BioTechnology	29/06/2019
BE	CS	Computer Science Engineering	29/06/2019
BE	CV	Civil Engineering	29/06/2019
BE	EE	Electrical Electronics Engineering	29/06/2019
BE	EC	Electronics Communication Engineering	29/06/2019
BE	IS	Information Science Engineering	29/06/2019
BE	ME	Mechanical Engineering	29/06/2019
Mtech	CS	Computer Science Engineering	29/06/2019
Mtech	MMD	Machine Design	29/06/2019
Mtech	CFI	Cyber Forensics and Information Security	29/06/2019
MBA	MBA	Marketing, finance, human resource, business analytics and operations	29/06/2019
MCA	MCA	Computer Applications	29/06/2019
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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	Computer Science Engineering	01/08/2018	Adobe Experience Manager – 1 NHOP03	01/08/2018
BE	Computer Science Engineering	01/08/2018	Big Data Analytics using HP Vertica – 2 NHOP04	01/08/2018
BE	Computer Science Engineering	01/08/2018	Adobe Experience Manager – 2 NHOP06	01/08/2018
BE	Electronics and Communication Engineering	01/08/2018	CISCO-Routing and Switching - 1 NHOP09	01/08/2018
BE	Electronics and Communication Engineering	01/08/2018	CISCO-Routing and Switching – 2 NHOP12	01/08/2018
BE	Electrical Electronics Engineering	01/08/2018	Schneider - Industrial Auto mation-NHOP08	01/08/2018
BE	Electrical Electronics Engineering	22/01/2019	Industrial automation EEE656	22/01/2019
BE	Electrical Electronics Engineering	22/01/2019	Smart grid EEE812	22/01/2019
BE	Electrical Electronics Engineering	01/08/2018	Computer aided power system analysis EEE71	01/08/2018
BE	Electrical Electronics Engineering	01/08/2018	Advanced industrial & building automation EEE72	01/08/2018
BE	Information Science Engineering	01/08/2018	VMware Virtualization Essentials - 1	01/08/2018
BE	Information Science Engineering	01/08/2018	VM Ware Virtualization Essentials - 2	01/08/2018
BE	Mechanical Engineering	01/08/2018	SAP NHOP07	01/08/2018
BE	Mechanical Engineering	01/08/2018	Machine Learning NHOP11	01/08/2018
BE	Mechanical Engineering	01/08/2018	Industrial IOT-Embedded Systems-NHOP13	01/08/2018
BE	Mechanical	11/06/2019	Finite	11/06/2019

			Element Method MEE62 CFD training/ SAP NHOP07 training/ Computer Aided Machine Drawing MEE331/431CATIA training	
MCA	MCA	01/08/2018	Life Skills for Professionals-I - 18MCA16	01/08/2018
MCA	MCA	01/08/2018	Life Skills for Professionals-II - MCA37	01/08/2018
BE	Mechanical Engineering	11/06/2019	Computer Aided Machine Drawing MEE331/431CATIA training	11/06/2019
BE	Mechanical Engineering	13/06/2019	Finite Element Method MEE62 CFD training	13/06/2019
BE	Mechanical Engineering	14/06/2019	Finite Element Method MEE62 CFD training/ SAP NHOP07 training/ Computer Aided Machine Drawing MEE331/431CATIA training	14/06/2019
BE	Mechanical Engineering	15/06/2019	Finite Element Method MEE62 CFD training/ SAP NHOP07 training/ Computer Aided Machine Drawing MEE331/431CATIA training	15/06/2019
BE	Mechanical Engineering	17/06/2019	Thermodynamics MEE332/432 /Machine Design-MEE54/63	17/06/2019
BE	Mechanical Engineering	27/06/2019	Automation Engineering –MEE64 CNC programming	27/06/2019

BE	Mechanical Engineering	28/06/2019	heat transfer MEE61 /Mechanics of materials MEE351/451	28/06/2019
BE	Mechanical Engineering	29/06/2019	Fluid mechanics MEE362/462 /Theory of machines MEE51	29/06/2019
BE	Mechanical Engineering	26/06/2019	Fluid Mechanics-MEE362/462 /Thermodynamics-MEE332/432	26/06/2019
BE	Mechanical Engineering	01/07/2019	Material science and metallurgy MEE361/461 Machines for manufacturing MEE342/442	01/07/2019
BE	Mechanical Engineering	02/07/2019	Automation MEE64/ MMM-MEE352/452	02/07/2019
BE	Mechanical Engineering	03/07/2019	Mechatronics-MEE561 /Machine Theory & Mechanism Design-MEE51	03/07/2019
BE	Mechanical Engineering	04/07/2019	Finite Element Method-MEE62 /Rotodynamics-MEE53	04/07/2019
BE	Mechanical Engineering	05/07/2019	SAP NHOP07 /Product life cycle management-MEE813	05/07/2019
BE	Mechanical Engineering	01/08/2018	MATLAB AUT72	01/08/2018
BE	Mechanical Engineering	01/08/2018	CATIA V5 AUT431	01/08/2018
BE	Mechanical Engineering	01/08/2018	Management and Entrepreneurship - AUT562	01/08/2018
BE	Electrical Electronics Engineering	01/08/2018	Elecric Vehicle Boot camp	17/01/2019
BE	Mechanical Engineering	24/06/2019	Mechanics of Materials(AUT451)	24/06/2019
BE	Mechanical	25/06/2019	Fluid	25/06/2019

			Engineering		Mechanics (AUT362)	
BE	Mechanical Engineering	26/06/2019	Metrology and Measurements(AUT352)	26/06/2019
BE	Mechanical Engineering	27/06/2019	Material Science(AUT451)	27/06/2019
BE	Mechanical Engineering	28/06/2019	Thermal Engineering(AUT52)	28/06/2019
BE	Automobile Engineering	01/07/2019	Automobile Engineering(AUT51 , AUT62)	01/07/2019
BE	Automobile Engineering	02/07/2019	Design Engineering(AUT54)	02/07/2019
BE	Automobile Engineering	24/06/2019	Theory of Machines(AUT55)	24/06/2019
BE	Civil Engineering	12/09/2018	Construction Management & Engineering Economics (CIV563)(	12/09/2018
BE	Civil Engineering	05/10/2018	Building Materials & Construction (CIV33)	05/10/2018
BE	Civil Engineering	09/10/2018	Analysis of Determinate Structures (CIV44)	09/10/2018
BE	Civil Engineering	09/10/2018	Higher Surveying (CIV45) Design of RCC Structural Elements(CIV52)	09/10/2018
BE	Civil Engineering	27/10/2018	Basics of Geotechnical Engineering(CIV55) Applied Geotechnical Engineering(CIV64)	27/10/2018
BE	Civil Engineering	02/02/2019	Construction Management & Engineering Economics (CIV563)	02/02/2019
BE	Civil Engineering	06/04/2019	Estimation & Valuation(CIV73)	06/04/2019
BE	Civil Engineering	12/04/2019	Analysis of Determinate	12/04/2019

| BE | Computer Science Engineering | 22/07/2019 | NHOP14 - BLOCKCHAIN | 22/07/2019 |
| BE | Computer Science Engineering | 01/08/2018 | Big Data Analytics using HP Vertica – 1 NHOP01 | 01/08/2018 |

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Cyber Forensics and Information Security	22/07/2019
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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	Engineering	01/08/2018

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
Certification program on DevOps	26/10/2018	45
Android App Development	26/10/2018	33
Certification program on CCNA	28/05/2019	30
Printed Circuit Board (PCB), CNC IoT Certification	27/05/2019	40
VLSI Design	01/08/2018	188
Certification course in Management Leadership	09/03/2019	14
Certification course in Hypermesh	16/01/2019	22
Training and Certification program on Pro E	16/01/2019	13
Training on Autotronics	27/05/2019	13
Training on Technical Servicing /Marketing	27/05/2019	13
Certification Courses in	21/01/2019	23

Dry Lab Domain SAS in Clinical Research		
ertification program on AutoCAD	19/03/2019	49
Certificate Course in Wet Lab Domain – Fermentation and DSP Technology	28/05/2019	23
Certification course in Management Leadership	09/03/2019	23
Certification program on CCNA	24/09/2018	75
Certification program on Python	10/09/2018	66
Certification program on Oracle DBA	12/01/2019	61
Certification program on CCNA	17/01/2019	49
Certification program on Amazon Web Services	27/05/2019	88
Certification program on 3ds Max	18/12/2018	25
Machine Learning with Python	17/04/2019	66
Certification Course on Management Leadership	09/03/2019	42
Unigraphics NX Certification	18/12/2018	56
Computational Fluid Dynamics (CFD) Certification	17/12/2018	54
Machine Learning with Python	05/11/2018	49
SAP Hackathon Home Automation and Management	30/10/2018	30
Certification program on ETABS	27/05/2019	25
Certification program on AutoCAD	26/10/2018	15
Certification program on Primavera	07/03/2019	15
Certification program on MSP Orcad	27/05/2019	15
Certification program on Primavera RevitMEP	29/05/2019	49
Certification Course of Management Leadership	08/03/2019	25
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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	All Engineering programs	1235
MBA	All programs	160
MCA	All programs	114
Mtech	All programs	13
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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

Methodology of feedback analysis: a. Feedback collection process b. Feedback assessment process c. System of reward / corrective measures a. Feedback collection process • Feedback mechanism is well organized system in the college for all courses. • All the students are allowed to give feedback. • Computerized feedback (Knowledge pro/contineo software) is collected from students for all the courses. Feedback collection process :YES for all courses Process :Computerized using Knowledge Pro/ CONTINEO software Feedback receiver: Program coordinator / HOD Frequency of feedback collection :Once in a semester (but oral feedback from Class Representatives is taken by HOD almost every month) Metrics used for calculation : 5:Excellent 4:very good 3:good 2:satisfactory 1:below average Purpose of comment :For improving the quality of education b. Feedback assessment process • The feedback collected from students is first analyzed by Dept. level Assessment committee (AC), headed by the principal. • The contents of the feedback will be shared with each faculty member individually. • Performance of each individual faculty is assessed by the concerned committee members. All the courses mentioned in the feedback form will be analyzed as follows: Step1 Collection of feedback forms for all the subjects from the students based on parameters specified in questionnaire. Step2 Estimation of average for all the parameters and calculation of cumulative otherwise called threshold. Step3 After the recommendations of IQAC, threshold value will be finalized. The normal value setup at present is 3.5 Step4 If the threshold exceeds3.5, it will be considered as good. If it is less, the faculty performance is considered as average or below average. Step5 If the faculty receives good performance, he will be rewarded with monitory benefits. If he / she receives average or below average performance, he / she gets counseling and allows them to get correct their performances. c. System of reward / corrective measures System of reward process: Best faculty award is given based on the following factors: 1. Student's feedback 2. The faculty's selfappraisal report HOD's evaluation 3. The marks given by faculty appraisal committee, headed by principal 4. The increments and promotions also add some effect to these scores 5. If the faculty achieves 90 100, an appreciation from the management will be awarded along with a monitory benefit of increment. I.

Corrective measures: • Explanation from the faculty will be demanded for the inappropriate result and subsequent action will be processed. • Counseling will be given to the concerned faculty by HOD and Principal. • Promoting and encouraging faculty to attend the faculty development programs (FDP) related to effective teaching methodologies.

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	All programs	1080	1080	1080
MBA	All programs	179	179	179
MCA	All programs	98	98	98
Mtech	All programs	12	12	12
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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	1080	289	224	52	9

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 Toolsand resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
276	276	60	21	21	20

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

I. Details of mentoring system: • Each student is allotted with a faculty mentor, and each mentor maintains a Proctor form with details like parents/guardian's name, addresses, contact numbers and academic details, academic scores. • Psychological counselors are available to all the students who are counseled individually, aided therapeutically and are supported in their aspirations related to academics, career plans to air their grievances and cope with issues which may impede their progress in the above areas. • All student mentors encourage the students' participation (apart from curricular guidance) in cocurricular, extracurricular and other profession activities, which will motivate them stimulate their growth into well rounded young professionals. • Regular orientation programmes and Parent meetings are conducted bringing parents into the monitoring / mentoring system as key stakeholders. • A parent and/or student login is exclusively provided in the institution's website for sharing of pertinent information like attendance and academic performance of the student. • Follow up sessions with the parents/faculty/counselors and mentors are regularly arranged with the students who have poor performance and attendance to enable them to improve their attendance and performance. II. Description of mentoring system: 1.Professional guidance :• Encourage students to discuss their ideas on paper presentations. • Stimulate students' thinking towards innovation in projects • Support their learning through attending technical workshops. • Persuade them to upgrade their domain knowledge through active perusing of technical and industrial journals 2.Academic guidance: • • Share information of academic planners, academic schedules and

elearning resources. • Identify students with poor attendance and ensure that they improve their attendance by getting counseled in the presence of mentor, counselor and HOD • Focus on academically weak students, by providing them with additional reading materials, model questions along with solutions and special makeup classes. 3. Career advancement • Encourage students to do certification courses in order to build on their qualifications related to their career. • Provide Career Guidance/CRT and other Training apart from arranging campus recruitment drives by the Training Placement Cell • Support their research into Industry, companies, job and candidate profiles. 4. Personal development : • Empower and enable inner adjustments by individual students to counter and cope with physical, emotional, mental, social and environmental challenges through studentcounselor interaction/ through meditation workshops/ through other specialized workshops / activities. • Use of therapeutic interventions by counselors where necessary such as Cognitive Behaviour Therapy(CBT), Rational Emotive Behavior Therapy (REBT),Desensitization Therapy, Psychodynamic therapy, Group therapy and so on. • Engage in family /peer counseling by Counselor/ Mentor /HOD to strengthen student's interpersonal relationships thereby improving their grades III. Efficacy of mentoring/counseling system: The mentoring/counseling system developed by the college has proved to be effective as defined by different parameters: • STUDENT'S ATTENDANCE: enhanced / improved • THE INVOLVEMENT OF STUDENTS IN THE ACADEMICS, COCURRICULAR AND EXTRACURRICULAR: has improved • Individual student's talents/skills identified and nurtured towards: excellence (the mentor/counselor/student ratio being optimum for supported growth).

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1369	276	1:20

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
39	39	0	39	27

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.M S Ganesha Prasad	Dean	Promotion supporting leo club movement
2019	Srinath MK	Assistant Professor	Best research paper by NIT rourkela
2018	Dr. Sanjeev Sharma	Professor	Best Teacher Award
2018	Mr.Vinod Kumar S	Assistant Professor	Faculty mentor
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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	Automobile Engineering	2019	13/05/2019	26/05/2019
BE	Bio Technology	2019	13/05/2019	26/05/2019

BE	Civil Engineering	2019	13/05/2019	26/05/2019
BE	Computer science	2019	13/05/2019	26/05/2019
BE	Electrical Electronics and	2019	13/05/2019	26/05/2019
BE	Electronics and communication	2019	13/05/2019	26/05/2019
BE	Information Science	2019	13/05/2019	26/05/2019
BE	Mechanical Engineering	2019	13/05/2019	26/05/2019

[View File](#)

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
0	1234	0

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://newhorizonindia.edu/nhengineering/pos/

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
All courses	BE	All Programs	1234	1200	97.24

[View File](#)

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://newhorizonindia.edu/nhengineering/alumni/

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

Yes
Name of the teacher getting seed money
Dr.Manjunatha

| 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	Srinath M K	Best paper award	08/12/2018	NIT Rourkela

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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	1	AICTE	5	5
Major Projects	3	AICTE	2	2
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.15	0.15
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.06	0.06
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.1	0.1
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.07	0.07
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.08	0.08
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.06	0.06

Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.06	0.06
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.06	0.06
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.06	0.06
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.06	0.06
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.05	0.05
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.06	0.06
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.07	0.07
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.05	0.05
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.06	0.06

Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.07	0.07
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.08	0.08
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.07	0.07
Major Projects	1	AICTE	1.26	1.26
Major Projects	2	VGST	5	5
Major Projects	1	IEI	0.35	0.35
Major Projects	2	VGST	5	5
Students Research Projects (Other than compulsory by the University)	0.5	KSCST	0.13	0.13
Major Projects	1	VGST	5	5
Any Other (Specify)	1	VGST	2	2
Students Research Projects (Other than compulsory by the University)	1	PMYUVA OPEX	0.43	0.43
Major Projects	1	Govt. of India	1.5	1.5
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3.2.2 – The institution provides seed money to its teachers for research,

1659375

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
Seminar on Microcontroller 8051 Interfacing	Electronics and Communication	10/11/2018

Seminar on Advanced wireless and mobile communication	Electronics and Communication	03/11/2018
Seminar on Antenna Design.	Electronics and Communication	15/11/2018
Seminar on Exception Handling	Electronics and Communication	04/04/2019
Seminar on Recent trend on Embedded SystemAirborne applications	Electronics and Communication	11/04/2019
Seminar on Advanced Digital Communication and its application	Electronics and Communication	13/04/2019
Seminar on Designing with FPGA	Electronics and Communication	13/04/2019
Seminar on DSP Processor and Digital filter	Electronics and Communication	16/04/2019
Orientation program on "Benefits of IEEE and Opportunities"	Electronics and Communication	04/10/2018
Workshop on Amazon Web Services	Computer science Engineering	27/05/2019
Next Generation Sequencing Student STTP	Department of Biotechnology	05/10/2018
Handson Workshop on .Net Applications Sharath M, Senior Consultant, Suventure Services Pvt. Ltd.	MCA	17/09/2018
Handson Workshop on Testing Dr. Anbunathan R, Senior Project Manager, LG Soft India Pvt. Ltd.	MCA	19/09/2018
Handson Workshop on Python Programming Md Yasin, Cerner Health Care Solutions	MCA	09/03/2019
Handson Workshop on IOT related Projects Dr. Ashwini K.B. Associate Professor – R.V. College of Engineering	MCA	12/03/2019
Parivarthan for PG students	Department of Management Studies	09/10/2018
Industry expectation from MBA graduates	Department of Management Studies	10/10/2018
Orientation on Academic Evaluation	Department of Management Studies	10/10/2018
Grooming Etiquettes	Department of Management	11/10/2018

	Studies	
MSOffice Practical presentation	Department of Management Studies	15/10/2018
IoT and Embedded system training program using Texas Instruments technology	Electronics and Communication	02/11/2018
Marine Exploration Build Your Own ROV	Civil Engineering	16/04/2019
Jalayantra Navigate the Tempest	Electronics and Communication	27/04/2019
Soldering workshop	Electronics and Communication	13/03/2019
Sensor Arduino	Electronics and Communication	17/04/2019
PCB Design and Fabrication	Electronics and Communication	24/10/2018
Basics to ArduinoWorkshop	Electronics and Communication	26/09/2018
TechTalk on Introduction to python and Machine Learning	Electronics and Communication	27/10/2018
TechTalk on Machine Learning	Electronics and Communication	15/03/2019
Seminar on Timing Analysis in VLSI Design	Electronics and Communication	20/09/2018
Seminar on Waveform Synthesis	Electronics and Communication	30/10/2018
Seminar on Finite State Machines	Electronics and Communication	31/10/2018
Seminar on Multicore Arhitectures and communication	Electronics and Communication	13/10/2018
Seminar on Analog electronics Product development	Electronics and Communication	09/11/2018
Seminar on Application of Signal Processing in Industry	Electronics and Communication	15/11/2018
Hands on Training on Phytochemical Extraction and analysis	Department of Biotechnology	01/09/2018
Hands on Workshop on SPSS	Department of Management Studies	06/05/2019
Capstone 28th Aug 2018	Department of Management Studies	28/08/2018
Outbound training	Department of Management Studies	06/03/2019

Brainstorm of Good Practice in Geotechnical Engineering	Civil engineering	27/10/2018
Machine learning with Python	Mechanical Engineering	05/11/2018
Machine learning with Python	Mechanical Engineering	15/04/2019
Android application and IIoT certification	Mechanical Engineering	27/05/2019
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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
Mobifarm App Development	Dushyanth S Gowda Pranav P Nambiar	UBAMHRD India	10/10/2018	App Development
Hackathon	Mr. Ashuthosh Kumar Jha Mr. Savaj Raj	Hackathon	04/03/2019	App Development
Fostering an ecosystem bridging Government, Industry and Academia	Mr.Vinod Kumar S	Texas Instruments	03/12/2018	Faculty mentor
Replaceable Diesel Particulate Filter	Mr.GirishTilak Mr.A.V.Karthik	KSCST	11/08/2018	Best Project
Experimental study of recycled thermoplastic polyurethane for automotive applications	Mr.V.T. Chandan Kumar Mr.K.P.Shashank	Oxford College of Engg	09/05/2019	Best Paper
Design and fabrication of Range Extended Electric Two wheeler	Mr.S.Shuhaib Khan Mr.V.Vasanth Kumar Mr.N.Nirmal Kumar Mr.Vinay Kumar	New Horizon college of Engineering	27/04/2019	Best Project
Experimental study of recycled thermoplastic polyurethane for automotive applications	Mr.V.T. Chandan Kumar Mr.K.P.Shashank	New Horizon college of Engineering	27/04/2019	Best Project
Mathematical modeling on	Srinath MK	NIT Rourkela	08/12/2018	Best research paper

Best teacher Award (20182019)	Dr. Sanjeev Sharma	Society for Technologically Advanced Materials of India (STAMI)	19/12/2018	Best Teacher Award

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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
Compute Silicon	Compute Silicon	Compute Silicon	Compute Silicon	Research and Development	01/05/2019
Mobifarm	Mobifarm	UBAMHRD	Mobifarm App Development	App development	07/01/2019
Centre for Innovation and Entrepreneurship	Chirag Kashyap	Students	Open My Book	borrow books and study material	28/08/2018
Centre for Innovation and Entrepreneurship	Indrajeet Singh	Students	Fixolla	gadget repairing	12/09/2018
Centre for Innovation and Entrepreneurship	Sumeet	NHCE	Z.IN.C (Zero Investment Company)	Personal finance planning investment Management	14/02/2019
Centre for Innovation and Entrepreneurship	Phanindra	NHCE	Agro	Selling Vegetables directly from farmers to customers	14/02/2019
Centre for Innovation and Entrepreneurship	Sameer Ahhmed	NHCE	Shoeyaari	Online and offline shoe selling platform	14/02/2019

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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
Electronics and Communication Engineering	1
Computer science Engineering	3
Basic science	5
MBA	1

Electrical Electronics Engineering	1
Civil Engineering	1
Mechanical Engineering	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)
International	Electronics and Communication	58	4.2
International	Computer science Engineering	85	5.10
International	Biotechnology	7	2.11
International	Basic Science	65	2
International	MCA	20	1.5
International	MBA	17	3.21
International	Electrical Electronics Engineering	8	3.69
International	Automobile Engineering	15	3.95
International	Civil Engineering	48	5
International	Information Science	40	5.4
International	Mechanical Engineering	77	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
Electronics and Communication	1
Computer science Engineering	4
Biotechnology	2
Basic Science	6
MCA	8
MBA	1
Electrical Electronics Engineering	2
Automobile Engineering	20
Mechanical Engineering	21
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Novel Arrangement of Apparatus, System and Method for evolving Winning Competency	Published	41032322	15/03/2019

Model (WCM)				
Novel Arrangement of Apparatus, System and Method for evolving Model to Indentify the Parameters Influencing the Winning/Loosing (MIPIW/L) of any team game	Published	41032323	15/03/2019
Novel Arrangement of Apparatus, System and Method for ensuring Expected Cultural Change for Better Team Performance (ECCBTP)	Published	41032319	15/03/2019
Novel Arrangement of Apparatus, System and Method for Analyzing Cause and Effect Diagram for Better Performance during the Play (CAEDBP)	Published	41032318	15/03/2019
Novel Arrangement of Apparatus, System and Method for Analyzing Cause and Effect Diagram for Winning Basketball (CAEDWB)	Published	41032326	15/03/2019
System and Method for Smart Sustainable and Expandable Helmet with IoT Capabilities	Published	41018076	30/11/2018
System and Method for Exo Skeleton for Lower Limb	Published	41018077	30/11/2018
Multi Purpose Agricultural Robot	Published	41018087	30/11/2018
Design and Fabrication of Solar Powered Bicycle	Published	41018081	30/11/2018
Novel Arrangement of Apparatus, System and Method for evolving the Raja's Winning	Published	41032324	15/03/2019

Basketball Pentagon Model			
Novel Method of Carbon Dioxide Sequestration from Exhaust Using Zeolites	Published	41032344	15/03/2019
Design of CNC Based Maintenance and Safety System for High Rise Buildings	Published	41032343	15/03/2019
Development of Three Wheel Handicapped Steering Propulsion Cycle	Published	41032347	15/03/2019
GSM Controlled MultiPurpose Agricultural Robot	Published	41032348	15/03/2019
NOVEL SYSTEM AND METHOD OF REMOTE POWER CHARGING WITH MECHANIZATION EFFICIENTLY BY SUPERCAPACITOR	Published	41041146	24/05/2019
NOVEL SYSTEM AND METHOD OF AUTONOMOUS CONTROLS FOR THE SMART OPERATION OF A METRO TRAIN	Published	41041148	24/05/2019
NOVEL SYSTEM AND METHOD OF PHOTOVOLTAIC ASSORTMENT BASED POWER GENERATION SYSTEM USING NINE LEVEL	Published	41041150	24/05/2019
NOVEL SYSTEM AND METHOD FOR POWER SAVING USING PULSE WIDTH MODULATION TECHNOLOGY (PMT)	Published	41041152	24/05/2019
NOVEL SYSTEM AND METHOD FOR SOLAR BASED VOLTAGE SOURCE INVERTER (VSI) CONTROL BRUSHLESS DC (BLDC)	Published	41041154	24/05/2019
NOVEL SYSTEM AND METHOD FOR SMART DETECTION OF ELECTRICITY THEFT IN MODERN	Published	41041156	24/05/2019

DISTRIBUTION NETWORK			
NOVEL SYSTEM AND METHOD FOR GRID UNIFIED SOLAR BASED IRRIGATION SYSTEM	Published	41041158	24/05/2019
NOVEL SYSTEM AND METHOD FOR ALLEVIATION OF POWER QUALITY SNAGS USING INTEFRATED POWER QUALITY CONDITIONER	Published	41041159	24/05/2019
NOVEL SYSTEM AND METHOD FOR SMART OPTIMIZATION OF DEMAND	Published	41041160	24/05/2019
NOVEL SYSTEM AND METHOD OF CAPRICIOUS ELECTRONIC SPEED GOVERNOR	Published	41041161	24/05/2019
Design and Fabrication of Autonomous Lubrication of Chain	Published	41018085	30/11/2018
Design and Development of Electric Powerless Refrigerator	Published	41018086	30/11/2018
Glass Cleaning Automated Robot for High Rise Building Applications	Published	41018080	30/11/2018
Mullite ceramic Coating on cast aluminum pistons and cylinder heads for IC Engine applications	Published	41018083	30/11/2018
Combined Solar and Wind Energy Water Pumping System	Published	41018082	30/11/2018
Breaking Head attachment for conducting bond strength test	Published	41018084	30/11/2018
Novel Method for Conversion of Waste Plastic into Fuel	Published	41018079	30/11/2018
Fresnel Lens and Thermoelectric	Published	41032350	15/03/2019

Module Aided Solar Desalination Unit			
Novel Ergonomic Industrial Seating Support	Published	41032346	15/03/2019
Design and Optimization of Lever Propelled AllTerrain Wheel Chair	Published	41032342	15/03/2019
Automatic Drain Cleaning Machine	Published	41032350	15/03/2019
Flexible Fixture for Towing	Published	41032348	15/03/2019
Pedal Powered Reciprocating Pump	Published	41032321	15/03/2019
Improved Lead Acid Battery	Published	41032345	15/03/2019
Novel Arrangement of Apparatus, System and Method for Experiential Learning System (ELS) and Method for Smart Coaching Team Game (MSCTG)	Published	41032332	15/03/2019
Novel Arrangement of Apparatus, System and Method for Evolving Winning Trilogy of Team Game (WTTG)	Published	41032329	15/03/2019
Novel Arrangement of Apparatus, System and Method for evaluating the major factors to be considered for the Basketball Winning Strategy (BWS)	Published	41032331	15/03/2019
Novel Arrangement of Apparatus, System and Method for evolving the Research Tool with Methodology and the Sequence of Study (RTMSS)	Published	41032330	15/03/2019
Novel Arrangement of Apparatus, System and Method for identifying effective tools and	Published	41032327	15/03/2019

techniques for the Improvement of Performance of an Individual Player/Team (IPIPT)				
Novel Arrangement of Apparatus, System and Method for developing Process Approach to Coaching Basketball (PACB)	Published	41032325	15/03/2019
Novel Arrangement of Apparatus, System and Method for developing the Winning Trilogy and Winning Metrics (WTWM)	Published	41032320	15/03/2019
Novel Arrangement of Apparatus, System and Method for developing the Raja's Taxonomy of Winning Strategies (RTWS)	Published	41032338	15/03/2019

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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
UCAP Powered Insulin Pump	KCR Nisha, V Dharmambal, M Maheswari, A Anitha, Nikil Riyas	Journal of Advanced Research in Dynamical and Control Systems	2018	0	New Horizon College of Engineering, Bangalore	0
Frequency equation for the submicron CMOS ring oscillator using the first order characterization	Aravinda Koithyar, TK Ramesh	Journal of Semiconductors	2018	0	Amrita School of Engineering, Amrita Vishwa Vidyapeetham University	0
Performance Analysis	H. Chetan, H. Naveen,	Journal of Advanced	2018	0	New Horizon	0

of Image Compression Using Kalman DWT	Dr.G. Indumati, Rajiv Gopal, S. Sujitha	Research in Dynamical Control Systems			College of Engineering, Bangalore	
Evolution Of Management Thinking And Enlightenment Of Management's Discernment From The Profiles Of The Sikh Gurus	Prof. Kesar Singh, Dr Sanjeev Bansal	International Journal of Mechanical Engineering Technology (IJMET)	2018	1	Amity University	1
Management Through Spirituality With Spectial Reference To Sikhism	Prof. Kesar Singh, Dr Sanjeev Bansal	International Journal Of Civil Engineering Technology (IJCIET)	2018	1	Amity University	1
A faster phase frequency detector using transmission gate-based latch for the reduced response time of the PLL	Aravinda Koithyar, TK Ramesh	International Journal of Circuit Theory and Applications	2018	2	Amrita School of Engineering, Amrita Vishwa Vidyapeetham University	2
Comparative Analysis of FFT, DWT and DTCDWT based OFDM System for Underwater Acoustic Communication	H Naveen, Reddy Sreerama	Journal of Advanced Research in Dynamical and Control system	2018	0	New Horizon College of Engineering, Bangalore	0
Predicting the maintainability of an open source software using	Dr. K.G. Madhwaraj	International Journal of Engineering and Advanced Technology	2019	0	New Horizon College of Engineering	0

Machine Learning Techniques						
Identifying Autism Biomarkers from Microarray Data using Intuitionist Fuzzy Normalization and Feature Selection	Mrs. R. Prema	Romanian Biotechnological Letters	2019	0	New Horizon College of Engineering	0
A Study on knowledge Management among IT firms in Chennai	Dr. R Srikanth	International Journal of Research and Analytical Reviews	2019	0	New Horizon College of Engineering	0
Embracing Social Media as a means to engage the work force	Pavithra S	Management, Technology Innovation in the VUCA World: Role in Value Creation, ISBN No.9789353516680	2019	0	New Horizon College of Engineering	0
Raising Employee Engagement using Social media in the VUCA world	Pavithra S	Management, Technology Innovation in the VUCA World: Role in Value Creation, ISBN No.9789353516680	2019	0	New Horizon College of Engineering	0
Effectuations Approach in Entrepreneurship	Dr. Smita Harwani	Management, Technology Innovation in the VUCA World: Role in	2019	0	New Horizon College of Engineering	0

		Value Creation, ISBN No.978935351668 0				
Social Entrepreneurship as a catalyst a Boon for the revival of Rural India	Mr. Arun Raghu Babu	Management, Technology Innovation in the VUCA World: Role in Value Creation, ISBN No.978935351668 0	2019	0	New Horizon College of Engineering	0
Change Management a case study on Nokia and Siemens Corporation	Dr. M S Vijaya Rao	Management, Technology Innovation in the VUCA World: Role in Value Creation, ISBN No.978935351668 0	2019	0	New Horizon College of Engineering	0
Challenges opportunities faced by the banking industry to sustain in the VUCA world	Mr. Lokesh K N	Management, Technology Innovation in the VUCA World: Role in Value Creation, ISBN No.978935351668 0	2019	0	New Horizon College of Engineering	0
A Study on knowledge Management among IT firms in Chennai	Dr. R Srikanth	International Journal of Research and Analytical Reviews	2019	0	New Horizon College of Engineering	0
A descriptive study on the buyers' preference	Dr. M S Vijaya Rao	International Journal of Research and	2019	0	New Horizon College of Engineering	0

towards the purchase of motorcycle in volatile environment with reference to classic motors in Chennai city		Analytical Reviews				
A study on organization culture and its impact on productivity in the VUCA world	Ms. Pavithra S	International Journal of Research and Analytical Reviews	2019	0	New Horizon College of Engineering	0
Analysis of the mutual funds with equity exposure in VUCA world	Dr. Smita Harwani	International Journal of Research and Analytical Reviews	2019	0	New Horizon College of Engineering	0
Do Nifty index price follow random walk An empirical test using weak from of efficient market hypothesis on national stock exchange	Mr.Lokesh K N	International Journal of Research and Analytical Reviews	2019	0	New Horizon College of Engineering	0
Marketing strategy of educational institutions in VUCA world	Ms. Saumi Roy, Dr. Sheelan Misra	International Journal of Research and Analytical Reviews	2019	0	New Horizon College of Engineering	0
Microfinance – a	Ms. Rupsa Ghosh	International nal	2019	0	New Horizon	0

pragmatic approach for financial inclusion and sustainability		Journal of Research and Analytical Reviews			College of Engineering	
Work Motivation – An insight into practices and outcomes	Dr.A R Sainath	International Journal of Research and Analytical Reviews	2019	0	New Horizon College of Engineering	0
Crowded plant height optimisation algorithm tuned maximum power point tracking for grid integrated solar power conditioning system	Ramkumar Subburam	IET Renewable Power Generation	2019	0	New Horizon College of Engineering	0
Access Structures used for the Implementation of Attribute Based Encryption: A Survey	Joshua Daniel Raj	International Journal of Pure and Applied Mathematics	2018	0	KSSEM	0
Spanning Trees of a Triangle Snake Graph by BFS and DFS Algorithms	S.Sujitha	International Journal of Innovative Technology and Exploring Engineering	2019	0	New Horizon College of Engineering	0
Diversity based self adaptive clusters using PSO clustering	Dr. R J Anandhi	Springer International Journal of Information Technology	2018	0	New Horizon College of Engineering	0

for crime data		, ISSN 25112104 , DOI 10.1007/s4187001900303z, ISSN: 25112112 (electronic version) ,Journal no. 41870				
Adaptive strategy operators based GA for rule discovery	Dr. R J Anandhi	Springer International Journal of Information Technology , ISSN 25112104 , DOI 10.1007/s4187001900303z, ISSN: 25112112 (electronic version) ,Journal no. 41870	2018	0	New Horizon College of Engineering	0
Importance of Manual Image Annotation Tools and Free Datasets for Medical Research	Dr. S Mohan Kumar	Journal of Advanced Research in Dynamical and Control Systems, Volume 11 | 01 Special Issue, Pages 11681176	2018	4	New Horizon College of Engineering	4
Novel Framework for skin cancer detection CAD System and importance of efficient machine learning model	Dr. S Mohan Kumar	International Scientific Journal of Contemporary Research in Engineering Science and Management, Volume 3, Issue 4, ISSN:	2018	0	New Horizon College of Engineering	0

		24561134					
Semantic Enrichment of COAP for Resource Discovery	Mrs.Vandana .C.P	National Conference on Adaptive Computational Intelligence ICACI2019, IETE Springer Series	2019	0	New Horizon College of Engineering	0
CFD analysis of air cooled HVAC chiller compressors	Priyabrata Adhikary	ARPN Journal of engineering and applied sciences	2018	0	New Horizon College of Engineering	0
Analysis of CNGdiesel powered diesel engine combustion, performance and exhaust emission characteristics	Dr. Ashok kumar	IJMPERD	2019	0	New Horizon College of Engineering	0
Comparison of tribological behavior of nylon aramid polymer composite fabricated by fused deposition modeling and injection molding process	Nagendra J	IJMET	2019	0	New Horizon College of Engineering	0
Microstructure and tribological characteristics of APS sprayed NiCrBSi/flya	Nagabhushana N	IOP Publishing	2019	0	New Horizon College of Engineering	0

sh cenosphere/Cr2O3 and NiCrBSi/flyash cenosphere/ Mo composite coating at elevated temperature						
Effect of carboxyl grapheme interface in glass fiber reinforced epoxy nano composites	Manjunath G	AIP Conference proceedings	2019	0	New Horizon College of Engineering	0
Design, development and assessment of lake water purification system through solar	Rakesh C	Springer	2018	0	New Horizon College of Engineering	0
Biological factor influencing the degradation of water soluble metal working fluids	Puneeth H V	Springer	2019	0	New Horizon College of Engineering	0
Thermal characterization of Aluminum based composite structures using laser flash analysis	Bopanna K D	Springer	2019	0	New Horizon College of Engineering	0
Design and static analysis of composite leaf	Naresh K S	IUP	2018	0	New Horizon College of Engineering	0

spring for heavy vehicle suspension system						
Collapse modes and crushing characteristics of polymer composite sandwich panelA review	Naresh K S	IJMET	2018	0	New Horizon College of Engineering	0

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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
UCAP Powered Insulin Pump	KCR Nisha, V Dharmambal, M Maheswari, A Anitha, Nikil Riyas	Journal of Advanced Research in Dynamical and Control Systems	2018	4	0	New Horizon College of Engineering, Bangalore
Frequency equation for the submicron CMOS ring oscillator using the first order characterization	Aravinda Koithyar, TK Ramesh	Journal of Semiconductors	2018	3	0	Amrita School of Engineering, Amrita Vishwa Vidyapeetham University
Performance Analysis of Image Compression Using Kalman DWT	H. Chetan, H. Naveen, Dr.G. Indumati, Rajiv Gopal, S. Sujitha	Journal of Advanced Research in Dynamical Control Systems	2018	0	0	New Horizon College of Engineering, Bangalore
Evolution Of Management Thinking And Enlightenment Of Management	Prof. Kesar Singh, Dr Sanjeev Bansal	International Journel Of Mechanical Engineering Technology	2018	1	1	Amity University

's Discernment From The Profiles Of The Sikh Gurus		(IJMET)				
Management Through Spirituality With Spectial Reference To Sikhism	Prof. Kesar Singh, Dr Sanjeev Bansal	International Journal Of Civil Engineering Technology (IJCIET)	2018	1	1	Amity University
A faster phase frequency detector using transmission gate-based latch for the reduced response time of the PLL	Aravinda Koithyar, TK Ramesh	International Journal of Circuit Theory and Applications	2018	3	2	Amrita School of Engineering, Amrita Vishwa Vidyapeetham University
Comparative Analysis of FFT, DWT and DTCDWT based OFDM System for Underwater Acoustic Communication	H Naveen, Reddy Sreerama	Journal of Advanced Research in Dynamical and Control system	2018	1	0	New Horizon College of Engineering, Bangalore
Effect of green tea consumption on RBC morphology, membrane properties and antioxidant status in chronic cigarette smokers	Dr H Ananda Vardhan	Indian Journal of Biochemistry Biophysics	2018	1	1	New Horizon College of Engineering, Bangalore
Study on characteristics of a Tadpole Graph	G Srinivasa	Journal of Adv Research in Dynamical and	2019	2	0	New Horizon College of Engineering, Bangalore

		Control Systems					
Spanning Trees of a Triangle Snake Graph by BFS and DFS Algori thems	G Srinivasa	Internatio nal Journal of Innovative Technology and Exploring Engineerin g	2019	2	2	New Horizon College of Engineerin g, Bangalore
Semi invariant submanifol ds of LCSm anifold	M.S. Siddesha	Communicat ions of the Korean mathematic al Society	2018	2	0	New Horizon College of Engineerin g, Bangalore
"Mathemati cal Model and Heuristic based Subtask Scheduling Algorithm for order scheduling "	Suma T	AIP conference proceeding s	2019	1	1	New Horizon College of Engineerin g, Bangalore
Study on Multitask Oriented Service Co mposition and Optimi zation of Customer order Scheduling Problem using Fuzzy Min Max Algorithm	Suma T	Internatio nal Journal of Mechanical and Engine ering Technology	2019	1	0	New Horizon College of Engineerin g, Bangalore
Environmen tally Benign Approach for the Synthesis of Azo Dyes in the Presence of Mesoporous Sulfated	Parashuram L	Chemistry Select	2019	2	0	New Horizon College of Engineerin g, Bangalore

Core?Shell Zirconia?Copper (I) Oxide Solid Acid Catalyst						
Synergistic effect of hybrid Ce3/Ce4 doped Bi2O3 nanosphere photocatalyst for enhanced photocatalytic degradation of alizarin red S dye and its NUV excited photoluminescence studies	Parashuram L	Journal of Environmental Chemical Engineering	2019	2	0	New Horizon College of Engineering
Perovskite lanthanum aluminate nanoparticles applications in antimicrobial activity, adsorptive removal of Direct Blue 53 dye and fluoride	Raghu M S	Materials Science and Engineering: C	2019	7	1	New Horizon College of Engineering
Controllable synthesis of TiO2 chemically bonded graphene for photocatalytic hydrogen evolution and dye degradation	Raghu M S	Catalysis Today	2018	7	0	New Horizon College of Engineering
Ruthenium	Raghu M S	Materials	2018	7	4	New

Title	Author	Journal	Year			Institution
oxide nanostring clusters anchored Graphene oxide nano composites for highpe rformance supercapac itors appl ication		Research Bulletin				Horizon College of Engineerin g
Enhanced e lectrochem ical perfo rmance of fewlayered MoS 2-rGO nanocompos ite for lithium storage ap plication	Raghu M	Journal of Materials Science: Materials in Electro nics	2018	7	1	New Horizon College of Engineerin g
Synthesis, Characteri zation, and Biological Evaluation of Novel 3 ?(4?Chloro phenyl)?2? (substitut ed) quinaz olin?4 (3H)?one D erivatives as Multi?t arget Anti ?inflammat ory Agents	Raghu M	Journal of Heterocycl ic Chemistry	2019	7	0	New Horizon College of Engineerin g
Fabricatio n of PANI/SnO2 hybrid nan ocomposite s via inte rfacial po lymerisati on for high perfo rmance sup ercapacito rs applica tions	Raghu M S	Journal of Surface En gineering and Applied El ectrochemi stry	2019	7	0	New Horizon College of Engineerin g
Oxidation	Asha P K	Materials	2019	0	0	New

of 4Methyl thio phenyl acetic acid in aqueous acidic medium by Cr (VI): Kinetic and Mechan istic Study		Today: Pro ceedings				Horizon College of Engineerin g
Low temper ature synthesis and photol uminescenc e properties of red emitting M g2SiO4:Eu3 nanophosph or for near UV light emitting diodes	Ramachandr a Naik	Sensors and Actuators B: Chemical	2019	11	16	New Horizon College of Engineerin g
Photolumin escent and thermolumi nescent properties of low tem perature s ynthesized Nd3 doped Mg2SiO4 na nophosphor s for display and dosimetry applicatio ns	Ramachandr a Naik	Optik	2019	11	2	New Horizon College of Engineerin g
Electroche mical, pho toluminesc ence and EPR studies of Fe3 doped nano Forst erite: Effect of doping on	Ramachandr a Naik	Journal of Luminescen ce	2018	11	2	New Horizon College of Engineerin g

tetra and octahedral sites						
Singular Value Decomposition of Images of structural Textures and their Reconstruction using Periodicity	Dr. V. Asha	International Journal of Tomography and Simulation	2018	4	0	New Horizon College of Engineering
In painting of Patterned Textures through periodicity Extraction	Dr. V. Asha	Journal of Emerging Technologies Innovative Research	2019	4	0	New Horizon College of Engineering

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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	39	271	61	64

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Aravinda. K	Content Development	EduSaksham	10000
Ms. Nayana G H	Content Development	EduSaksham	10000
Dr. Sheelan Misra	Reformulation of Higher Education / T John College	NHCE	5000
Dr. Sheelan Misra	Transformational Leadership/ SLR Steels	NHCE	10000
Dr.Niranjan	5 storey commercial building	Pankaj Sondhi ,Agarwal Gene Research Foundation	25000
Dr.Niranjan	Structural integrity analysis for the existing structure	Shivu Basaviah	10000
Dr.Niranjan	Compressive strength of cubes	42 Estates	10000

| Dr.Niranjan | Steel tensile strength | 42 Estates | 10000 |
| Dr. P. Adhikary | HVAC Low side design | OPTCOOL | 10000 |

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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
Dept. of Management Studies	Reformulation of Higher Education	T John College	5000	40
Dept. of Management Studies	Transformational Leadership	SLR Steels	10000	28
Mechanical	Ansys and Catia training for newly recruited engineers	Quest Global	27000	27

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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
One day session on MSOffice	NGO	6	10
Blood Donation Camp	Rotary Club	5	320
General awareness for Orphanage Children	Helping Hands Orphanage in Hennur, Bangalore – Dt : 26.10.2018 Helping Hands Orphanage in Hennur, Bangalore – Dt : 01.03.2019	4	220
NGO visit	UBA	6	23
Rural development project	UBA	6	40
Visit to Orphanage	Little Lads residency	2	50
Stem Cell registry camp 12.10.18	Hospital	75	500
Blood Donation camp 18.08.18	Lions club	30	200
Green Outreach excel training,	Govt School	1	25

awareness program, gifts and goodies distribution and plantation. 02.11.18			
Visit to Iskcon 02.09.18	Iskcon organisation	2	30
Visit to NGO 31.03.19	Auxilium Navajeevana	2	25
Blood Donation camp 14.03.19	Lions Club	45	200
How to press the button on Election day – Awareness program with Demo 13.03.19	Election Commission	200	1500
Green awareness drive 07.03.19	Phoenix and VR Mall	2	30
Visit to Orphanage	Thayi Mane Children's	1	15
7 Mindsets for success and Happiness : Conversation between bollywood superstar Mr. Boman Irani and Swami Mukundananda 19.02.19	External agency	150	600
Hum Fit Toh India Fit NaMoThon 5K Run Marathon, Wlakathon and Cyclorthan 03.02.19	BJP Govt	50	150
Blood donation	NHCE	2	120
Organ donation awareness mission	NHCE	2	100
Eye camp	NHCE	2	30
Circular economy for productivity and sustainability (poster making competition)	National productivity council	3	22
Stem cell donation camp	Stem cell registry India	3	341
Future mobility show	CII	10	300
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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
Poster making on Circular economy for productivity and sustainability	3rd position in south region	National productivity council	22
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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 activites	Number of students participated in such activites
Swachh Bharath Campaign	Biozone Club	Swachh Bharath Campaign	5	109
Blood Donation Camp	Bio blooms Club in Association with Kidwai Cancer Research Institute Bangalore	Blood Donation Camp	5	109
World Food Day	Biozone Club Bio blooms Club	Food Safety Measures	5	109
World Health Day Awareness session on Breast and Cervical Cancer	Biozone Bio blooms Club in Association with Kidwai Cancer Research Institute Bangalore	Awareness session on Breast and Cervical Cancer	5	109
World Tuberculosis Day Awareness Campaign on TB	Biozone Club in Assosciation with Rajiv Gandhi Institute of Chest Disease abd Dot Centre	Awareness Campaign on TB	5	109
General awareness for Orphanage Children	Helping Hands Orphanage in Hennur, Bangalore – Dt : 26.10.2018	Social Activity	2	100
General awareness for Orphanage Children	Helping Hands Orphanage in Hennur, Bangalore – Dt : 01.03.2019	Social Activity	2	120
UBA	AICTE	NGO visit	6	23
UBA	AICTE	Rural development project	6	40
Swachh Bharath	Phoenix and VR	Green Awareness	2	30

		Mall	drive		
AIDS Awareness	NHCE	Pink Day	15	500
Flood relief FUND	NHCE	Raising money for flood victims	25	150
Help for armyPulwama	NHCE	Collection of fund for helping the family of deceased.	25	120
Aid for Govt School. Ghatti Subramaniya	Civil Engineering Department	Providg basic study materials and basic immovable assets i for Govt School Ghatti	25	120
Aid for special school	Civil Engineering Department	Donation and study materials for Special school for mental and physically handicapped children	2	15
Stem cell donation camp	Stem cell registry India	Stem cell donation	1	341

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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
Research (Biomedical)	Naveen .H, Sumanth, Roopa, Karthik	NIMHANS	0.5
Student Exchange	Ashwin S	Self	0.5
Student Exchange	Jishma Asmi	Self	0.5
Student Exchange	Snehith V Gowda	Self	0.5
Student Exchange	Bhavana Savanth	Self	0.5
Student Exchange	Denzel Abraham George	Self	0.5
Student Exchange	Mithun V	Self	0.5
Student Exchange	Nikhil Riyaz	Self	0.5
Student Exchange	Sanjana	Self	0.5
Student Exchange	Shubha	Self	0.5
Student Exchange	Nivas Chandra Reddy	Self	0.5
Student Exchange	Anupam M Hiremath	Self	0.5
Student Exchange	Sheshdhar Prakash	Self	0.5
Student Exchange	Suhan Narayan Nayak	Self	0.5

Student Exchange	Ajinkya Suresh Salunkhe	Self	0.5
Student Exchange	Nishanth B R	Self	0.5
Student Exchange	Aditya Shrinivas Chebbi	Self	0.5
Student Exchange	Shehzar Sheriff	Self	0.5
Student Exchange	Vikram A	Self	0.5
Student Exchange	Kushal J	Self	0.5
Student Exchange	Vasu V S	Self	0.5

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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
Project	Ultra low power ROM Architecture (implementat ion of Schematic and Layout of control block and decoder)	Compute Silicon	05/02/2019	24/04/2019	P.Udayabhanu
Project	Modified Taylors series to reduce sidelodbe using optimize window	DRDO	05/02/2019	27/04/2019	Ramya.G Rohit.R
Internship	Overall Productive Efficiency	Schneider Electric	01/03/2019	15/05/2019	Sowmya P
Internship	Embedded Systems	Etronics Technologies Pvt. Ltd.	11/02/2019	28/03/2019	D Ramya
Internship	Mission and Combat centre	HAL	11/03/2019	22/04/2019	Srustik Subhash
Internship	Power Electronics	Techser	19/02/2019	05/04/2019	Nishanth Reddy K
Internship	Biomedical Engineering	Nimhans	05/02/2019	21/03/2019	Sumanth.R

Internship	Aircraft Design and Research	HAL	04/03/2019	13/05/2019	Surendra Kumar
Internship	Production	Apex auto	07/01/2019	27/04/2019	Shivaraj kumbar
Internship	Quality Inspection	Amaraja	07/01/2019	26/04/2019	Akhilesh
Internship	Inspection	BMTC	04/03/2019	29/03/2019	Sagar
Internship	Manufacturing	Army based workshop	01/04/2019	30/04/2019	Mahesh

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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
Compute Silicon	26/04/2019	Promote and encourage Idea generation, evaluation, execution and development in the latest areas of Technologies (VLSI, AI/ML, Computer Vision etc.)	65
Electronics for You	01/05/2019	set up an EFYCertified Skill development centre in the institution	60
TCS IoN	04/02/2019	To conduct NPTEL online exams.	380
M/S. Skifi Labs	04/04/2019	Hands on Workshops, Value added courses and Projects at MCA	230
MTC Global	01/06/2019	Life time membership to ensure the activities under 'Conexion' , Certification program	360
Institute of productivity, GrimsbyUK	04/07/2019	Strengthening academic ties promoting productivity related to education training opportunities	180
International Journal of Research	15/01/2019	Paper Publications	60

and Analytical Reviews				
VI MICROSYSTEMS, CHENNAI	02/02/2019	Training Program for Faculty and Students, Placement /Internship Opportunities for students, Usage of Research Provisions in the Company, Employee exchange program between the College and Company, Nature, scope and schedule of research collaboration	100	
WESTERN THOMSON, CHENNAI	24/12/2018	Industrial visits for students, student projectsGuest lectures on relevant topics, Internship, Faculty visit and training	100	
CLOUDIX, CHENNAI	27/12/2018	Faculty training, Employee exchange program between the College and Company, Placement/ Internship Opportunities, Guidance in instrumentation and digital transformation labs in the institute	100	
TUV RHEINLAND, BANGALORE	20/10/2018	Guest and Expert lectures, Internship Opportunities, Employee exchange program between the College and Company, Nature, scope and schedule of research collaboration, Offer for final year student projects	8	
Shatayu Construction Consultants	01/04/2019	Joint Construction projects, joint research projects, joint faculty and student	12	

		internships, joint conferences, workshops seminars.	
Akurath constructions	01/04/2019	Joint Construction projects, joint research projects, joint faculty and student internships, joint conferences, workshops seminars.	12
Quest global	06/08/2018	To provide technical assistance to design IIoT syllabus and train NHCE faculties for delivering session to students.	36
Skyfi Labs	19/06/2019	To conduct workshop	40

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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
2520	2520

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Newly Added
Laboratories	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Newly Added
Video Centre	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
Easylib Software	Fully	4.4.7	2003

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	35705	11085492	1105	445595	36810	11531087
Reference Books	9813	2913935	89	68900	9902	2982835
e-Books	15605	1009000	10597	1283105	26202	2292105
Journals	68	1811793	0	158783	68	1970576
e-Journals	7400	13638140	0	800000	7400	14438140
Digital Database	8	0	2	0	10	0
CD & Video	4153	0	62	0	4215	0
Others(specify)	7380	0	11	0	7391	0
Others(specify)	1934	0	1984	0	3918	0
Others(specify)	4012	0	1054	0	5066	0
Others(specify)	33	0	0	39621	33	39621
Others(specify)	13	0	0	47721	13	47721

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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	Platformon which module is developed	Date of launching e-content
Prof.Nagabhushan	Assembly drawing	Youtube	01/08/2019

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	1451	40	200	2	0	23	24	200	0
Added	167	100	0	0	0	30	37	0	0
Total	1618	140	200	2	0	53	61	200	0

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

200 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

Smart Bio Technology	https://www.youtube.com/channel/UC-ZQhjtlqnS5xTBSbqsoPTA
Students Project Works	https://www.youtube.com/watch?v=O_OonV1wyOs
Techorizon	https://www.youtube.com/watch?v=xE1AAdNfLVo
Technical Wise	https://www.youtube.com/channel/UC4elcFOM0u2fWlOCL_II5_w
FEM by Mechanical Mentors	https://www.youtube.com/playlist?list=PLZL4SWJ_NcNdQe2P-m6A-vOvBV5B7k4Vn
Shear Force Diagrams by Mechanical Mentors	https://www.youtube.com/watch?v=iKRNzDrARj4&list=PLZL4SWJ_NcNdGVjxHaoI6grsvO9EU6asO
Fluid Mechanics by Mechanical Mentors	https://www.youtube.com/playlist?list=PLZL4SWJ_NcNcPf1huS49oN-ryOCAM4GuP
Optimization Techniques by Mechanical Mentors	https://www.youtube.com/watch?v=6xTThyC-faI&list=PLZL4SWJ_NcNejxHMroALAllywSqkIyLRd
Material Science Metallurgy by Mechanical Mentors	https://www.youtube.com/playlist?list=PLZL4SWJ_NcNfCw5l-f8Az_2kli1QdB-dn
Ansys by Mechanical Mentors	https://www.youtube.com/watch?v=pIHXGiV3pqU&list=PLZL4SWJ_NcNfIW00GlVyDbkxe2JiNRhtD
Electrical Engineering	https://www.youtube.com/channel/UCn86NK69R1Lhf68s2-Lk-5A
Introduction to multiple intelligences	https://www.youtube.com/watch?v=r3LkWhA9voI&feature=em-uploademail
Endo channel	https://www.youtube.com/channel/UCKQoSfxOqYcrPDrLNcBhMsA
Multiple Intelligence	https://www.youtube.com/watch?v=s6jNo2oZIeY&feature=youtu.be

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 incurredon maintenance of physical facilites
255.35	**255.35**	**1464.65**	**1464.65**

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)

1. Library Facilities: • Library Spread Over Two Floor and is open 24/7 open, 365 days • The library has Stack Area, Reference Section, Periodicals, Newspaper and Magazine Section, Reading Hall, Adobe Digital Center of Excellence, Video Conference Room, Online Classroom with Recording Facility (eshikshana), Students Discussion Rooms, Faculty Discussion Room, Books and Stationary Shop • Students can borrow three books, 2cds, 2 Periodicals at a time. Renewals are allowed only when there is no claim by others. • Online reservation can be done for a book, which is already lent out. Reserved books

are kept separately in circulation counter for two days for each member • Students can make online reservation for Books through the OPAC. The library sends an Email reminder to collect reserved books from the Library. SMS Alert through http://way2sms.com(free website) is used for sending messages to the students. • Two more books are issued to the Branch Toppers every Semester. 2. Sports Facilities: The college provides a host of indoor outdoor sports facilities for the students. An indoor stadium with state of the art facilities houses the courts for Basketball, Volleyball and Badminton while a spacious and a well maintained ground allows students to play and hone their skills at Football, Volleyball, Basketball and Tennis. The campus also features a well equipped indoor and outdoor gymnasium. Recreational facilities and indoor games like Chess, Table tennis which are meant to stimulate and invigorate the students intellectually and physically are also available on campus. 3. Lecture Halls: The Lecture Halls are airy, spacious and well ventilated, in conformity with international standards. Extensive use of LCD Projectors, audiovisual media enables the students to grasp advance technology quite easily. A 700 Seater Auditorium built to emulate international standards for intellectual activities like paper presentations, seminars, workshops, debates and intercollegiate competitions. Guest lectures for the students and faculty are conducted here regularly. Conference Rooms of corporate standards is one of the highlights of New Horizon campus. Ultra modern facilities to conduct board meetings and campus recruitment are available here. Video conference room, with the help of telecommunication technologies, allows two or more locations to communicate through a simultaneous two way video and audio transmissions. This room is also used an online class room. It has recording facility which enables recording of Guest Lectures for the benefit of the students. Seminar Halls are built with state of the art facilities to cater to the need of every student. Seminar halls are utilized for conducting seminars, workshops, guest lecturers and various other intellectual activities. 4. Laboratory Facilities: • Well equipped laboratories with the latest configuration are provided in all departments. • In addition to the department specific laboratories, the Institute also houses Industry sponsored laboratories such as Cisco Networking Academy lab, Quest Global IIOT Centre of Excellence lab, Schneider Electric Centre of Excellence lab in Electricity automation Energy, SAP Next Gen Lab, HPE Vertica Centre of Excellence lab, VMware IT academy lab, Adobe Digital Centre of Excellence lab, Capgemini DEMS lab.

http://newhorizonindia.edu/nhengineering/library-new/

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	NHCE Management scholarships for meritorious students and toppers	32	593770
Financial Support from Other Sources			
a) National	Social welfare department/Director Technical Education /Defence/AICTE	1503	43709750
b)International	0	0	0

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
Bridge course for BE students	23/07/2018	1085	NHCE AICTE
Value based induction program	11/08/2018	100	Shri Satya Sai Seva Organization
Communication and Management skills	04/10/2018	180	NHCE

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 passedin the comp. exam	Number of studentsp placed
2019	Placement training Aptitude and domain	750	750	24	632

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		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
109	750	581	23	750	51

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	BE	Mechanical Engineering	Coventry university, UK	MSc Automotive engineering

2019	1	BE	Mechanical Engineering	Universite Le Havre, France	Master Energy science and technology
2019	1	BE	Mechanical Engineering	Hochschule Ravensburg-Weingarten	Master in Mechatronics
2019	2	BE	Civil Engineering	Coventry University	Masters in Construction Technology
2019	2	BE	Civil Engineering	Auckland University	Masters in Construction Technology
2019	1	BE	Civil Engineering	Northumbria University	Masters in Project Management
2019	1	BE	Civil Engineering	University, Scotland	Masters in Project Management
2019	1	BE	Automobile Engineering	National College of Ireland	M. Sc
2018	6	BE	Bio-Technology	MSRIT	M. Tech Bio Technology
2018	1	BE	Bio-Technology	University of Hamburg (Germany)	MS Molecular Plant Science
2019	1	BE	Bio-Technology	Northumbria University	MS Molecular Biology Microbiology
2019	1	BE	Computer science	Otto-von-Guericke University Magdeburg	MSc-Data & Knowledge Engineering
2019	1	BE	Computer science	Middlesex University	MA International Business Management
2019	1	BE	Computer science	School of Graduate Studies, Queen's University	Master of Science, Computer Science
2019	2	BE	Computer science	University of South California	Master of Science, Computer Science
2019	1	BE	Computer science	Frankfurt University of Applied Sciences	Master of Science, Computer Science

2019	1	BE	Computer science	University of Bayreuth	Master of Science, Computer Science
2019	1	BE	Computer science	Clemson University's Graduate School	Master of Science, Computer Science
2019	1	BE	Computer science	Otto-von-Guericke University Magdeburg	MSc-Data & Knowledge Engineering
2019	1	BE	Computer science	New Jersey Institute of Technology	MSc- Cyber Security & Privacy program
2019	1	BE	Computer science	Colaiste na Trionoide, Baile, Atha Cliath, Trinity College, Dublin	MSc Computer Science-Data Science
2019	1	BE	Computer science	Sapienza, Universita Di Roma	Masters Degree in Data Science
2019	1	BE	Computer science	Dalhousie University	Master of Science, Computer Science
2019	1	BE	Computer science	Dublin technological University	MSc in Data Analytics
2019	1	BE	Computer science	M S Ramaiah University of Applied Science	M Tech in Machine Learning and Intelligent Systems
2019	1	BE	Electronics and communication	University of Texas at Arlington	MS-Software Engineering
2019	1	BE	Electronics and communication	University of Texas at Arlington	Computer Science
2019	1	BE	Electronics and communication	San Jose State University	MS- CS- Data Science
2019	1	BE	Electronics and communication	Illinois Institute of Technology Chicago	. Electrical and Computer Engg
2019	1	BE	Electronics	Amity Global	MBA-

| 2019 | 1 | BE | Electronics and communication | Manipal University | M.Tech-VLSI |
| 2019 | 1 | BE | Electronics and communication | IT Hamirpur | Mtech- Communication Systems and Networking |

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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
TOFEL	1
TOFEL	1
TOFEL	1
TOFEL	1
TOFEL	1
TOFEL	1
TOFEL	1
TOFEL	1
GATE	1
GATE	1
GRE	1
GRE	1
GRE	1
GRE	1
GRE	1
TOFEL	1
TOFEL	1
TOFEL	1
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
Hand Ball	VTU Bangalore Central Zone	112
Hockey	VTU Bangalore Central Zone	120
Volley Ball	Stale Level Intercollegiate Tournament	288
Basket Ball	Stale Level	312

	Intercollegiate Tournament		
Kabaddi	Stale Level Intercollegiate Tournament	384
Foot Ball	Stale Level Intercollegiate Tournament	360
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	1st place	National	0	1	1NH18CS705	Akshaya Suresh
2018	1st place	National	0	11	1NH15CS050	Huma Farheen
2018	2nd Place	National	0	2	1NH17CV008	Akriti Naik
2018	Best delegate	National	0	1	1NH15CS705	Anushma Dubey
2019	1st place	National	0	7	1NH16EC043	Kushi Ponnamma
2019	Runner up	National	0	1	1NH15EC011	Bhavana Savanth
2019	2nd place	National	0	1	1NH18CS184	Sparsha

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

The students are part of activities and committees. The students are involved in various committees such as Alumni Committee, Anti Ragging Committee, Co Curricular Committee, Cultural Committee, Curriculum Development Committee, NCC Committee, NSS Committee, News Letter Committee, Physical Education Sports Committee, Professional Societies etc. To provide suggestions towards the improvement of the institute. In addition, students have their own department clubs in cocurricular activities such as AutoManiacs Club (AMC), Society of Automobile Engineers Club (SAE), Genesis Club (Science Club), Math Horizon Club (Mathematics Club), Biozone Club, Bioblooms Club, Avishkar Club, Prakruthi Club, Advanced, Contemporary and Emerging Technologies Club (ACE), Business and Information Technology Club (BIT), Mobile App Development Club(MD), Technology Sharing Club(TSC), Electronics Hobby Club(EHC), Professional Connect Club(PCC), Green Energy Club(GEC), ESoft Club(ESC), iSTUDENTS WORKING ON EMERGING TECHNOLOGY Club(iSWET(G)), iStudent Club for Research Utilizing Meta Knowledge Club(i SCRUM), iCyber security Ethical Hacking Club(iCSEH), VMware International IT Academy, New Horizon Open Source Technology Enthusiasts, MecHorizon Club – (MHC), RoboHorizon Club – (RHC), SAP nextgen Club – (SAP), ACUMEN Club, Entrepreneurship DEVELOPMENT Club(Idea Lounge), FOSS – Free Open Source Software Club, EDAP – eDesigning and Publishing Club, ACT – Adobe Creative TechClub which carries out various activities. The Students also have extracurricular clubs to bring engaging, stimulating, and fun events to the

student body to enjoy in their recreational time, as well as to provide support and promotions for student activities on campus. It is our goal to get students engaged in their passions and interests outside of the classroom. In addition, the students also have sports club to engage in sports activities which includes 11 students comprising a President, Vice President, Secretary, Treasurer and 7 Committee members.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Cell at New Horizon College of Engineering promotes new ideas and innovations in science and technology and continues to be a source of pride to all students, faculty and Alumni. Our mission is to create an environment for the growth of our students in association with our Alumni to generate intellectual capability, innovation and entrepreneurial capability, which will contribute toward the growth of Science and Technology in partnership with the industry. Our Alumni have always been recognised for their academic integrity and accountability they have worked hard not just toward the progress of the Nation but have also supported global concerns. We try to inculcate in our students the respect for others and to imbibe the virtue of tolerance towards every individual. The alumni of NHCE have contributed immensely to the growth and development of our Nation ranging from Infrastructure development to the Service sector. Our alumni have occupied very important positions with the Government of India and abroad and many have excelled in entrepreneurship in the corporate sectors. The highly enriched alumni at NHCE are a link between the past and the present which in turn paves the way for a better future. The strength of our alumni is the pride of NHCE and will endure at all times to serve the cause of humanity. As we look to the future, we envision a growing awareness and appreciation for different people and cultures. We extend a warm welcome to all our alumni and international visitors to NHCE community and ensure full support in your pursuits to explore mutually beneficial collaborations.

5.4.2 – No. of registered Alumni:

7799

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1) May 05th 2018 – Alumni Sports Cup 2) August 15th 2018 – Alumni Meet 2018 3) September 22nd 2018 – Alumni Talk on Job Market and Opportunities for Mechanical Engineers in Automotive Sector (Final year Students) 4) September 22nd 2018 – Alumni Talk on Bright Careers Opportunities in Armed Forces(Final year Students) 5) April 27th 2019- Jury members for Techorizon (Project Exhibition) 6) May 17th 2019- Board Members for Board of Studies Meeting

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 institute has formed different committees for decentralization and participative management. The various committees includes: 1. Accreditation Committee: Members are involved in the accreditation of the institute from various bodies 2. Admission Committee: Members are involved in procedures and

policies related to admission of students to the institute. 3. Alumni Committee: Members are involved in maintaining alumni database and organizing alumni meets 4. Anti Ragging Committee: Members are involved in prevention of ragging of students in the institute 5. Anti Sexual Harassment Committee: Members are involved in prevention of any Sexual Harassment in the institute 6. Co Curricular Committee: Members are involved in conducting Co Curricular activities of the institute 7. Community Development Centre (Public Welfare Committee): Members are involved in organizing and maintaining healthy relationships among coworkers 8. Cultural Committee: Members are involved in conducting and organizing cultural events in the institute 9. Curriculum Development Committee: Members are involved in revision of curriculum in the institute 10. Energy Conversion Audit Committee: Members are involved in conservation of energy 11. Examination Committee: Members are involved in conducting examinations in the institute 12. Finance Committee: Members are involved in maintaining the accounts of the institute 13. Hostel Development Welfare Committee: Members are involved in maintaining and development of hostels of the institute 14. Infrastructure Development Committee: Members are involved in infrastructure development of the institute 15. InPlant Training/ Industrial/ Career Guidance/ Placement Committee: Members are involved in conducting training programs for the students and placements of students in organizations 16. Internal Quality Assessment Assurance Cell: Members are involved in assessment and improvement of the quality of students and faculties of the institute 17. Library Committee: Members are involved in maintenance of library and e -resources 18. NCC Committee: Members are involved in carrying out NCC activities for the students 19. NSS Committee: Members are involved in carrying out NSS activities in the institute 20. Physical Education Sports Committee: Members are involved in conducting and attending Physical Education/ sports to the students 21. News Letter Committee: Members are involved in publication of newsletter/magazines in the institute 22. Professional Societies: Members are involved in participation of activities, memberships, grants from Professional Societies 23. Research Development Committee: Members are involved in carrying out Research Development activities 24. Value Added Programs Committee: Members are involved in conducting Value Added Programs to the students of the institute 25. Women Empowerment Committee: Members are involved in empowerment/ development activities for women in the institute 26. Public Relations Marketing Committee: Members are involved in Public Relations Marketing of the institute 27. College Internal Complaints Committee (CICC): Members are involved in handling internal complaints of the institute 28. SC/ST Welfare Cell: Members are involved in maintaining scholarship details for SC/ST students 29. Recruitment Cell: Members are involved in recruitment of new staff

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

Partial

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
Industry Interaction / Collaboration	The students are taken to industrial visits each semester to gain industrial experience. Internships are included as part of curriculum to gain industrial knowledge IndustryInstitute supported labs are provided to conduct project works Open elective subjects are included as a part of curriculum to promote inters disciplinary projects at industry supported labs available at

	the institute. Encouragement/Permission for carrying out mini/major projects in industries
Admission of Students	a) Strongly believe in Continuous Improvement of Intake Quality of Students aspiring to get Admission in to NHCE. Preference will be given to Higher Cutoff Marks in CET b) Priority and Merit Scholarships/Incentives for Meritorious Students at PUC/2 c) Several Outreach Programmes are conducted to Sensitize/Apprise Students about the Initiatives and Achievements and Accolades of NHCE. d) Full Time PR Department has Vibrant Social Media Connect and has been utilized to Reachout to the Target Audience/Aspirants for Brand Building and Generating Awareness.
Research and Development	The Institution has a Research Committee namely RD Cell to promote Research Activities encouraging faculty members to publish papers in reputed journals and submitting proposals. It has been constituted to facilitate and monitor research projects and their related activities. Awareness has been created about Publication Metrics such as: Google Scholar Page Link, Web of Science (WoS), Scopus, SCI, Incite, Scopus Indexed, Scival etc Indexed Papers, PUBMED, FT45, Research ID, ORCID ID, "h" Index, "i10" Index and SJR etc
Library, ICT and Physical Infrastructure / Instrumentation	Library open 24/7, 365 days Individual cubicles and group discussion rooms are provided for individual and group learning Online classroom Video Conference room The NHCE library provides a wellestablished Digital Library, where students can access institutional repository, electronic resources, Guest Lectures and video lectures. Project assistance with regard to providing rare collections To give guidance for an academic project like open source software, Apps, etc. To conduct a quiz competition to upgrade their current general knowledge in core areas Special lecture on plagiarism, reference tools, information search tools and techniques
Human Resource Management	The Quality Assessment and Skill Development centre is established to increase the effectiveness of each staff member in particular ad the whole

	institution in general. The quality strategies adopted includes the following Conduction of induction programs on personal grooming, interpersonal skills, HR policies, research and development, institutional resources etc. Faculty development program/workshops/seminars/orientation programs are organized Minimum of one domain based program per semester is conducted/organized Sill development for nonteaching staff members Publication of minimum 2 articles/research papers in scopus journal.
Curriculum Development	The institute gives top most priority for curriculum development and delivery. The curriculum is revised once a year based on the changing requirements of industry. The curriculum design and development are done through Board of Studies (BOS in coordination with stakeholder's) such as Academic Industry Experts, Faculty Members, Meritorious Alumni, Parents and Students. Their suggestions, inputs, feedbacks and appropriate technological surveys are taken to bridge technological gap between academia and industry. The Board of Studies (BOS) also verifies, validates and approves the proposed curriculum with respect to attainment of program educational objectives in relevance with course objectives and program outcomes. In addition institute offers numerous core electives and open electives as a part of curriculum to ensure the students are equipped with the recent technologies.
Teaching and Learning	Innovative and effective Pedagogical tools are used in the process of Teaching and Learning in the institute. The students are exposed to Case analysis and Interpretations, Group Discussions, Group presentations, Internship, Project work, Industrial visit, Course assignments, Book/research paper reviews, Out bound experiential learning, quizzes, seminars, role plays, term paper, puzzles, crosswords etc. In addition students are made to take MOOC courses from NPTEL,SWAYAM for elective subjects to enhance the knowledge.
Examination and Evaluation	The institute has Controller of Examination (COE) department which

focuses on Examination and Evaluation. The institute conducts Board of Examiners (BOE) meeting which scrutinize the 5 sets of question paper. The COE then randomly picks different sets of question from each question paper to set an unique question paper to the students.

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

E-governace area	Details
Examination	a) Centralised Examination and Evaluation is promoted. b) For the purpose of bringing consistency in the evaluation of answers carried out by different faculty, the examiners concerned have been directed to discuss the contents of the synoptic answers in a meeting before they start the evaluation of the answers and the Scheme should be submitted to the Controller of Examination. c) The rules, processes, categories of offences of unfair means by students during Semester End examinations were reviewed and subsequently revised to deter the students from adoption of Unfair Means during the Semester End examinations. d) Enhanced Online Result Processing System
Planning and Development	a) Contineo Software for Academic Process (CIE/SEE) b) HRMS software for personal and academic achievements of faculties
Administration	c) ERP d) HRMS e) Teaching Learning: Google Forms/WhatsApp/Class Group etc f) Contineo Software for Academic Process (CIE/SEE) g) Placement Stack h) RD Project Monitoring: Mobile App
Finance and Accounts	a) On line fee collection from students b) On line salary payment c) On line deposit of PF d) On line deposit of TDS e) On line leaves approvals f) On line payslips and leave records of staff.
Student Admission and Support	a) ERP b) Online Admission Test c) Online/Realtime Video Conferencing based Counselling Sessions d) Online Brochures/walkthrough Campus e) 360 degree Campus View at NHCE Website f) Campus Shadowing Opportunities: Skype Sessions g) Open House Awareness Sessions to Potential Aspirants: Online FAQs h) Autonomous with CBCS: Industry Sponsored Labs as Centres of Excellence i) 24 x 7 Library Support with Digital Access Wifi Campus j) Digital Library

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	Dr.Ilango	National Level IT Fest ENHANCE 2018	Computer Society of India	15970
2018	Vinayak B	Machine Learning conference at IIMB	Indian Society for Technical Education (ISTE)	10000
2018	Sachin V	Machine Learning conference at IIMB	Indian Society for Technical Education (ISTE)	10000
2018	Preethi J D	Machine Learning conference at IIMB	Indian Society for Technical Education (ISTE)	10000
2018	Rakesh C	International Conference on New Horizons in science and technology	Institute of Engineers (IEI)	2159
2018	Pranav P	Global Entrepreneural Summit 2018 at IITKharagpur	Department of science Technology	6000
2018	Kavitha S N	National Symposium at JSS Academy	Institute of Engineers (IEI)	375
2018	K Subhashini	International Conference at Christ Iniversity	Indian Society for Technical Education (ISTE)	1000
2018	Dr. M S Ganesha Prasad	Robotech Fair	Institute of Engineers (IEI)	9000
2018	Dhanalakshmi K	International Conference at Christ Iniversity	Indian Society for Technical Education (ISTE)	1000
2018	Dr.Srinath M K	International Conference on Mathematical Modelling on	Indian Institute of Production Engineers	3500

	2019	Dr.Prashanth K S	Nano International ConferenceBangalore	Vision Group on Science and Technology	5310
	2018	Cynthia M	MHECON 2018	Institute of Engineers (IEI)	2500
	2018	Rakhi Gopalan	MHECON 2018	Institute of Engineers (IEI)	2500
	2019	Dr.Sainath	National Conference on Management studies organised by Xavier institute of Management	Association of MBA	5000
	2019	Dr.Ganesha Prasad	International Machine Tool Exhibition	SAE	11702
	2019	Naresh K S	KFDC Go KartPune	Institute of Engineers (IEI)	6767
	2019	Manoj yadav	Conference on Computational Modelling of Fluid Dynamics at NITWarrangal	Institute of Engineers (IEI)	9000
	2019	Dr.M S Ganesha Prasad	Confederation of Indian Industry Event Future Mobility Show	SAE	12007
	2019	Dr.M S Ganesha Prasad	ISTE National Annual Faculty Convention	Indian Society for Technical Education (ISTE)	8326

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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)
2019	Induction program for new teaching	Data presentation skills through	18/07/2019	19/07/2019	33	66

2019	MDPGrowth mindset Vs. Fixed mindset	Induction program for new non teaching staff	24/04/2019	24/04/2019	29	3
2019	FDPNHCE MBA faculty Promoting varied approaches for teachi nglearning process	Letter writing techniques with Email etiquette	12/02/2019	13/02/2019	12	18
2019	Kannada speaking classes	Kannada speaking classes	12/01/2019	12/01/2019	20	10
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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
Data Acquisition and Control Systems for Space Application	10	17/12/2018	19/12/2018	2
Deep Learning with Tensorflow – A Hands on Session	10	12/04/2019	12/04/2019	1
AICTE Sponsored 6 Days FDP on Thin Film and its Application at RVCE Bangalore	1	05/08/2019	09/08/2019	5
Work Shop on Biotechnology for Metals Production	2	29/04/2019	29/04/2019	1
Microbial Aspects of Environmental Pollution Control" Conducted by VTU Belagavi	2	29/04/2019	29/04/2019	1

Regional Office Bengaluru				
Work Shop on Networks and Mycobacterium Tuberculosis Conducted by VTU Belgavi Regional Office Bengaluru	1	30/04/2019	30/04/2019	1
Workshop on IoT and its Application	4	12/11/2018	13/11/2018	2
Workshop on 101 ways of improving employability for UG students	1	16/10/2018	16/10/2018	1
Workshop on Introduction to Robotics	1	05/10/2018	06/10/2018	2
Workshop on Boomi setup	1	30/09/2018	30/09/2018	1
Workshop on Machine learning and Vertica EON mode	2	27/09/2018	27/09/2018	1
FDP on VTU thesis and research paper writing using LaTex	2	24/09/2018	25/09/2018	2
FDP on Introduction to Mobile App Development	1	06/09/2018	07/09/2018	2
Workshop on MTech teaching learning process	3	01/09/2018	01/09/2018	1
FDP on Data mining and warehousing	1	04/01/2019	05/01/2019	2
FDP on Big data Analytics and IoT	1	07/01/2019	12/01/2019	7
FDP on Big data Analytics using Hadoop	3	16/01/2019	20/01/2019	5
FDP on Big Data Analytics with	2	18/01/2019	20/01/2019	2

IoT				
Workshop on Research workshop	1	23/01/2019	25/01/2019	3
Workshop on Research Methodology and IEEE Authorship Lab	1	01/02/2019	02/02/2019	2
Conference on Future Mobility Show 2019	1	26/02/2019	28/02/2019	3
FDP on Promoting varied approaches for teachinglearning process	32	09/01/2019	12/01/2019	4
8th world EDU summit	1	08/09/2018	08/09/2018	1
Approaches for Teaching, Learning process	1	12/02/2019	13/02/2019	2
Art of Writing Publishing Research Article	1	25/09/2018	25/09/2018	1
Financial Institution market Goods service Tax(GST)	1	29/04/2019	29/04/2019	1
Learning 4.0: Connecting the Dots Reaching the Unreached	1	04/01/2019	05/01/2019	2
Management education	1	03/05/2019	03/05/2019	1
World Entrepreneurship Summit	1	02/02/2019	02/02/2019	1
HR Analytics A tool to Unlock the Value of Human Capital	1	11/07/2019	13/07/2019	3
Developing and deploying Deep learning Applications using MATLAB	2	29/11/2018	29/11/2018	1
Blockchain	10	22/11/2018	23/11/2018	2

Artificial Intelligence and Machine Learning Fundamentals	10	07/12/2018	07/12/2018	1
IETE International conference on on wireless communication, Bigdata Analytics and 5G	1	13/12/2018	15/12/2018	3
Emerging trends in smart grid for energy storage technologies for sustainable Energy Management.	1	04/01/2019	05/01/2019	2
Intellectual Property Rights	2	30/01/2019	31/01/2019	2
FDP on VLSI and Embedded Systems	2	29/01/2019	01/02/2019	3
Thin Films and its Applications	1	04/02/2019	09/02/2019	6
TCS AIP FDP Programs 2019	1	18/03/2019	19/03/2019	2
Research Methodology and IEEE Authorship	3	13/04/2019	14/04/2019	2
IEEE International 5G Summit	1	12/04/2019	12/04/2019	1
IEEE International Conference on Intelligent Techniques in Control, Optimization, and Signal Processing (INCOS 19)	1	12/04/2019	13/04/2019	2
TEQIP sponsored national level seminar onIntellectual PropertyRights and Patent	2	25/05/2019	25/05/2019	1

Filing, SVCE Bengaluru in association with VTU				
VMware vSphere Hands on Training, Vmware IT Academy	4	23/04/2019	03/05/2019	10
VTU BOS Workshop	1	29/04/2019	30/04/2019	2
ASIAN Chamber of Commerce and Business Meet – 2019, FKCCI and Government of Karnataka	1	25/03/2019	27/03/2019	3
Five Days Faculty Development Programme on "Machine Learning with Python A Complete Hands on Approach"	18	07/01/2019	11/01/2019	5
International Symposium on Advances in Nanomaterials (ANM2018)	1	20/09/2018	20/09/2018	1
Workshop on Recent Advancement in Solar Energy Applications	1	04/10/2018	04/10/2018	1
Seminar on Applications of light weight materials and characterization in automobile industry	1	10/08/2018	11/08/2018	2
MATLAB	10	25/04/2019	25/04/2019	1
IOT in Electrical Engineering	20	26/03/2019	26/03/2019	1
HVDC Transmission System in Recent Trends	2	21/03/2019	23/03/2019	3
Trends In Hybrid Electric	1	16/03/2019	16/03/2019	1

VehiclesAn Electrical Perspective				
International Conference on Next Gen Technologies	1	08/03/2019	09/03/2019	2
Bosch Rexroth PLC,Servo Drives,Sensors and SCADA	1	16/01/2019	19/01/2019	4
Python Productivity for Zynq using PYNQZ2	3	15/12/2018	15/12/2018	1
MATLAB Simulink	30	12/10/2018	13/10/2018	2
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
276	276	186	186

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
19	16	17

6.4 – Financial Management and Resource Mobilization

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

The Institution conducts financial audits on a regular basis. The Internal financial audits are conducted at the end of each month at the departmental level. The External financial audits are conducted yearly through Chartered Accountants.

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
Palrecha Engineering Works, HiTech Engineers,Guhring India Pvt. Ltd, National Design and Research Foundation Bangalore , Federation of Karnataka Chambers of Commerce Industries,Quest Global	6025000	Development of Collaborative Research Projects and Consultancy , Promotion of Technologies for Startups
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6.4.3 – Total corpus fund generated

6025000

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	LIC VTU	Yes	Academic Heads
Administrative	Yes	LIC VTU	Yes	Administrative Heads

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

The institute organized "ParentTeacher Meet" on 24th November 2018 , 23rd March 2019 and 13th April 2019 that served as a connecting platform for parents, teachers and the students. The discussion included the progress of the students and addressing the parents login portal of students attendance through CONTINEO software. It aimed at bridging the gap between parents, students and teachers, keeping parents informed about their wards performance and progress, discussed the causes behind the student behavior and performance.

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

House Keeping staffStrengthening Communication Skills Importance of health hygiene on 6th July ,7th July and 14th July 2018 Drivers Measures to ensure Safety Security of the Students on 26th September 2018 House Keeping StaffPersonality Development Program – Social Telephonic Etiquette, Behavioral aspect, Health Hygiene and reinforcing importance of communication skills on 13th May 2019 to 30th May 2019 Drivers Workshop on 'Measures to ensure Safety Security of the Students' on 16th May 2019

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

Recognitions for industrial MOUs and Centre of Excellence (COE) Increase in Consultancy work and funding from government agencies Improvement in quality of students admitted.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
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	Classroom observation Assessment	05/02/2019	05/02/2019	19/03/2019	23
2019	FDP for teaching staff	03/06/2019	15/07/2019	27/07/2019	300
2019	FDP for nonteaching staff	03/06/2019	15/07/2019	27/07/2019	100
2018	FDP for teaching	03/12/2018	31/12/2018	12/01/2019	300

| 2018 | FDP for non teaching staff | 03/12/2018 | 31/12/2018 | 12/01/2019 | 100 |
| 2018 | Classroom observation Assessment | 20/08/2018 | 02/11/2018 | 05/11/2018 | 20 |

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
International Women's Day	08/03/2019	08/03/2019	150	0
Pink Day	30/10/2018	30/10/2018	100	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
• A solar plant installed by New Horizon College of Engineering to meet the energy resources • The 30kW solar photovoltaic system is set up at Sardar Vallabhbhai Patel block. • The power from the solar PV system is being supplied to all Class Rooms and laboratories in the block. • Since solar energy is being promoted in India in a big way, with government targeting 1.75GW of renewable power and an investment of 100 billion dollar by 2022. So it becomes essential to study the performance of solar panels under varying climatic conditions for realizing the potential of solar power.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	10
Provision for lift	Yes	10
Ramp/Rails	Yes	10
Braille Software/facilities	No	0
Rest Rooms	Yes	10
Scribes for examination	Yes	10
Special skill development for differently abled students	Yes	10

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	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff

| 2018 | 10 | 10 | 08/08/2018 | 1 | Kodagu and Kerala Flood Relief Camp | Helped the needy people with necessary food clothing and medical aid | 600 |

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Life Skills for Managers	05/08/2019	The content was introduced for first semester MBA students containing a module on Indian Ethics and values
Student Hand Book	22/07/2019	Rules and Regulations for Students, Parents and Employers
Faculty Hand Book	22/07/2019	Rules and Regulations for faculty

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Kargil Vijay Divas	26/07/2019	26/07/2019	500
International Yoga Day	21/06/2019	21/06/2019	200
Blood Donation Camp	11/10/2018	11/10/2018	352
Homage To Major Sandeep Unnikrishnan	15/03/2019	15/03/2019	50
International Womens Day	08/03/2019	08/03/2019	150
World Cancer Day	04/04/2019	04/04/2019	25
Awareness Program On Narcotics Drug Consumption And Its Impact	24/09/2018	24/09/2018	500
Run For Unity (RASHTRIYA EKTA DIWAS)	31/10/2018	31/10/2018	500
Green Outreach	02/11/2018	02/11/2018	100
Pink Day	30/10/2018	30/10/2018	100
Visit to Iskcon	02/09/2018	02/09/2018	300
Blood Donation camp	18/08/2018	18/08/2018	300
Stem Cell registry camp	12/10/2018	12/10/2018	100

| Visit to Orphanage (Little lads residency) | 16/08/2018 | 16/08/2018 | 50 |

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

1.WATER CONSERVATION • RAIN WATER HARVESTING Rain water harvesting is of utmost priority to the institution. There are two wells at different locations in the campus for Groundwater Recharge • SEWAGE WATER PURIFICATION PLANT The institute has installed a Sewage Water Purification Plant which purifies and treats the sewage water which is then reused in areas like the garden and sports field. • Informative Posters are put up in all departments educating Students regarding the necessity of water conservation • Project created by RD team on "Innovative methodology to conserve and transport fresh water over long distance". 2. ENERGY CONSERVATION The Campus maintains multiple SOLAR PANELS to derive energy from natural sources • Every block in the institution has individual power control panels and energy meters installations, which help in individual effective monitoring and control of energy consumption. • The UPS batteries are maintained in good condition and regularly checked, which reduces energy consumed for charging batteries. • Energy conserving lights like CFL, T5 tube lights and LED's are used in the campus. • Informative Posters are put up in all departments educating Students regarding the necessity of energy conservation 3. EFFORTS TOWARDS CARBON NEUTRALITY The institution has taken up certain preventive measures to check the emission of carbondioxide. The parking facility is provided for the students' in an open ground which helps in preventing the accumulation of pollution caused by vehicles to a maximum extent. 4. ENVIRONMENT CONSCIOUSNESS • Paper wastage is disposed off and the dry dead leaves are buried in the soil to protect the campus from getting polluted. • The institute maintains and monitors a green campus which is clean and ecofriendly. • Students enthusiastically take part in Tree Plantation Programs which are regularly organized. • Ewaste and Hazardous waste management is practiced. A well equipped Organic Waste Converter is installed. • One sided sheets are used for reducing wastage. 5. WASTE MANAGEMENT Ewaste management, organic waste converter room, hazardous and nonbiodegradable waste management.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1.VALUE ADDED PROGRAMS Industry relevant certifications/trainings are offered to the students through Global and Professional Streams. 2. SOCIAL OUT REACH • Department of CSE organised an Extension Programme on Computers for Makkala Jeevodaya (an orphan for underprivileged girls) today 08 September 18. Around 25 inmates attended the programme. Chocolates, toys and stationary kit were distributed to the inmates. We thank our Principal for all the support to this noble cause. • School bags distribution to the student of PrePrimary Government School at Cheenasandra Village, K R Puram Hobli adopted by New Horizon College of Engineering on June 28th, 2018 • Fund raiser of Rs.35,700/ towards Kidwai Cancer Drug foundation. • As a part of outreach activities, BSH clubs have visited a govt school, Aswarth nagar today and celebrated National science day by a) Conducting Science and math quiz competition. b) Demonstrating the science experiments. c) Presenting the mathematical models made by first year students on the occasion of Maths day. d) Sharing the joy with gifts to school students. 3. MENTORING COUNSELING Each student is assigned an Academic Mentor. An exclusive Counselling Department is established, consisting of five Student Counsellors for student support 4. MONETARY BENEFITS Apart from Scholarship, Monetary benefits are offered to students to encourage them to participate in national level sports tournaments Students and faculty members have access to Learning resources in the form of e journals, books etc. Encouragement is given to teachers for upgrading their career vertically. 5. GROUP LEARNING Group

Learning is encouraged and Discussion Rooms are provided in the Library for the same. 6. CORRECTIVE ACTION AND PREVENTIVE ACTION (CAPA) Corrective Action and Preventive Action is practiced for improving student performances 7.WATER CONSERVATION The institute conducts the Green Audit for use, reuse and recycling of water • RAIN WATER HARVESTING Rain water harvesting is of utmost priority to the institution. There are two wells at different locations in the campus for Groundwater Recharge • SEWAGE WATER PURIFICATION PLANT The institute has installed a Sewage Water Purification Plant which purifies and treats the sewage water which is then reused in areas like the garden and sports field. • Informative Posters are put up in all departments educating Students regarding the necessity of water conservation • Project created by RD team on "Innovative methodology to conserve and transport fresh water over long distance". 8. ENERGY CONSERVATION The Campus maintains multiple SOLAR PANELS to derive energy from natural sources • Every block in the institution has individual power control panels and energy meters installations, which help in individual effective monitoring and control of energy consumption. • The UPS batteries are maintained in good condition and regularly checked, which reduces energy consumed for charging batteries.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://newhorizonindia.edu/nhengineering/best-practices/

7.3 – Institutional Distinctiveness

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

Accredited by National Board of Accreditation (NBA) Accredited by NAAC with A Grade Autonomous institute Awarded EXCELLENCE IN PROMOTING INDUSTRYACADEMIA INTERFACE Awarded MOST PREFERRED INSTITUTE WITH GLOBAL EXPOSURE Ranked No.1 in Karnataka, 6th in South India, and 12th in India among the BEST PRIVATE TECH SCHOOLS. (Source: Dataquest Tschool Survey June 2018) Awarded "BEST ENGINEERING COLLEGE IN INDIA SOUTH" Awarded BEST INSTITUTION TOWARDS INDUSTRY FOCUS EDUCATION DELIVERY FOR FULL EMPLOYABILITY. Honoured with BEST INTERNATIONAL EDUCATION COLLABORATION OF THE YEAR Awarded BEST ENGINEERING COLLEGE IN INDIASOUTH BY ASSOCHAM Accredited by TCS and Wipro for their academic interface program MoU's with industries for campus connect, internships, recruitments, etc. Membership with professional societies like ISTE, IIPE, IEEE, SAE, CSI, NGKC, RAI, etc.

Provide the weblink of the institution
http://newhorizonindia.edu/nhengineering/

8.Future Plans of Actions for Next Academic Year

To become the best educational research institute in the country To produce Engineering graduates with high employer reputation To educate and teach new technologies presently being incorporated in industries (Industry oriented courses) To establish research centre of excellence To increase the number of industrydriven projects To commercialize research innovations To increase the number of student exchange scholars under student exchange program Encourage every student to pursue at least one passion in addition to academics To expand the laboratories and classrooms To promote personality development of all graduates for blending in a professional workforce To increase the number of patents applied To publish large fraction of papers in Scopus indexed journals