



Yearly Status Report - 2019-2020

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.		09886921136
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, 560103
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			Self financed																
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/2020/08/Revised-NAAC-AQAR-report-2018-19-as-on-7th-november-2019.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/wp-content/uploads/2020/05/Revised-Calender-of-Events-Even-2020.pdf																
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.23</td> <td>2016</td> <td>29-Mar-2016</td> <td>28-Mar-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.23	2016	29-Mar-2016	28-Mar-2021
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
FDP on Idea, Opportunity and Business Plan	31-Aug-2019 1	150
Workshop on Personal & Professional Commitment to the Advancement of Technology- organized with IEEE	20-Aug-2019 1	132
Workshop on Design and Develop Commercial Transformers on par with Industry Standards	08-Aug-2019 1	31
Seminar on Wireless Generations Leading to 5G	02-Aug-2019 1	110
FDP on Outcome Based Education	30-Jul-2019 1	218
Workshop & FDP on Knowledge Transfer Session on Vertical Database and Induction Programme	18-Jul-2019 2	50
FDP on Application of ETABS in Civil Engineering and Hands on Training on Advance Surveying Instruments	11-Jul-2019 7	62
Institution Innovation Council (IIC 2.0) Meeting of Q1 Meeting	04-Jul-2019 1	33
Faculty Evaluation Metrics on their R&D Performance and Publication Credentials	03-Jul-2019 1	225
Formation of MHRD Institution Innovation Council (MIIC)	04-Jun-2019 1	136
View File		

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
ECE Dept.	Seminar Grants	CSIR	2019 7	30000
ME Dept	42nd SPP	KSCST	2019 180	134500

ME Dept	CAS	MHRD	2019 180	6000
MCA Dept	FDP	AICTE	2019 14	318000
EEE Dept	FDP	AICTE	2019 14	250000
ME Dept	FDP	AICTE	2019 14	250000
EEE Dept	STTP	AICTE	2019 7	150000
ME Dept	Conference	VTU	2019 2	80000
R&D Dept	Margdarshan	AICTE	2019 365	1000000
EEE Dept	Professional Society	IEEE	2019 1	10180
View File				

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 :	1
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)	
<ul style="list-style-type: none"> • Ensured Continuous Improvement of Faculty Members through FDPs/Peer Learning/self Learning has been resulted in better academic performance and attainment levels of Students at NHCE! • Enhanced the Innovation Ecosystem with ongoing RD Projects including building our own "Slim Satellite" and have vibrant MHRD Institution Innovation Council Activities at NHCE has resulted in highest numbers of Patents Filed/Published! • Quality of Research Papers Published in Scopus, WoS, SCI Journals and every Faculty Member has Google Scholar Account and updating it periodically! • Four Departments have submitted their prequalifier and SAR for NBA Accreditation under Tier 1 in 2nd Cycle! • NHCE has initiated the process and applied for NAAC Accreditation 2nd Cycle (Existing accreditation is valid till Dec 2020)! 	

No Files Uploaded !!!

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

Plan of Action	Achievements/Outcomes
To Ensure Continuous Improvement of Faculty Members at NHCE through FDPs/Peer Learning/Self Learning	Resulted in better academic performance and attainment levels of Students at NHCE!
To Enhance the Innovation Eco-system and involvement of more numbers of faculty members in R&D Grants' Projects (Applied/Received). To conduct more sensitization programmes on Funding agencies/Schemes etc	Established MHRD Institution Innovation Council (IIC) 2.0! Building "Slim Satellite"! Received Award for Highest Number of Patents Filed in last 2 Years, successively!
To Enhance the Quality of Research Papers Published in Journals/Conferences/Seminars etc Need Structured Interventions	Resulted in better Scopus, WoS, SCI Journals and every Faculty Member have Google Scholar Account and updating it periodically!
To Conduct Periodic Academic Quality Audits including the Physical and Intellectual Infrastructures, Laboratories and Evaluation Process of CIE and SEE	Systematic and Timely Academic Audit of Teaching Learning and Evaluation Process by passionate team has resulted in better learning experience for students and enhanced satisfaction levels of faculty members!
To Participate in National Institutional Ranking Framework (NIRF) and Atal Ranking of Institutions on Innovation Achievements (ARIIA) is an initiative of Ministry of Human Resource Development (MHRD), Govt. of India	2018 NIRF Rank: 99 2019 NIRF Rank: 106 2020 NIRF Rank: 114 Awaiting ARIIA Ranking Results and MIIC 2.0 Stars!
No Files Uploaded !!!	

14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Council Meeting of NHCE	05-Aug-2020

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

Yes

Date of Visit

03-Jul-2020

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 description and a list of modules currently operational (maximum 500 words)	<ul style="list-style-type: none"> • 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. • Separate Module has been incorporated for Conducting Online Examinations: For both CIE and SEE, Distributing the Questions and allowing the candidates from remote locations to upload their scanned copies of answer scripts on Contineo. Also has the provision for proctored online examinations using one more device such as smart phone by the candidates. • During the pandemics of Covid19, the Contineo has been upgraded to conduct Online Classes with the support of variety of "meeting" platforms. • Payment gateways have been incorporated and allow the payment from anywhere using any digital mode, seamlessly getting integrated with the accounts department and other users.

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	25/05/2019
BE	CS	Computer Science Engineering	22/05/2019
BE	CV	Civil Engineering	22/05/2019
BE	EE	Electrical and Electronics Engineering	22/07/2019
BE	EC	Electronics and Communication Engineering	25/05/2019
BE	IS	Information Science Engineering	24/05/2019
BE	ME	Mechanical Engineering	17/05/2019
Mtech	MMD	Machine Design	17/05/2019
Mtech	CSE	Computer Science Engineering	22/05/2019
MBA	MBA	Marketing Finance HR Business Analytics Operations	22/05/2019

[View File](#)

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	Electrical and Electronics Engineering	22/07/2019	19HSS321-Economics for Engineers	22/07/2019
BE	Electrical and Electronics Engineering	22/07/2019	19HSS422-Life Skills for Engineers	22/07/2019
BE	Electrical and Electronics Engineering	22/07/2019	19EEE34-Digital System Design	22/07/2019
BE	Electrical and Electronics Engineering	22/07/2019	19EEE44-Micro controller and Embedded System	22/07/2019
BE	Electrical and Electronics Engineering	22/07/2019	19EEL38-Mini Project I	22/07/2019
BE	Electrical and Electronics Engineering	22/07/2019	19EEL49-Mini Project II	22/07/2019

BE	Computer Science & Engineering	22/07/2019	CSE553--Big Data Analytics with HP Vertica	22/07/2019
BE	Computer Science & Engineering	22/07/2019	CSE73--Mobile Application Development	22/07/2019
BE	Computer Science & Engineering	22/07/2019	CSE741--Fundamentals of Data Science	22/07/2019
BE	Computer Science & Engineering	22/07/2019	CSE743--Artificial Intelligence	22/07/2019
View File				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Electrical and Electronics Engineering 19EEE33-Electronic Devices and Circuit	22/07/2019
BE	Electrical and Electronics Engineering 19EEE34-Digital System Design	22/07/2019
BE	Electrical and Electronics Engineering 19EEE35-Electric Circuit Theory	22/07/2019
BE	Electrical and Electronics Engineering 19EEL36-Analog and Digital Electronics Laboratory	22/07/2019
BE	Electrical and Electronics Engineering 19EEL37-Electric Circuit Theory Laboratory	22/07/2019
BE	Electrical and Electronics Engineering 19EEE43-Electromagnetic Theory	22/07/2019
BE	Electrical and Electronics Engineering 19EEE44-Microcontroller and Embedded Systems	22/07/2019
BE	Electrical and Electronics Engineering 19EEE45-DC Machines and Transformers	22/07/2019
BE	Electrical and	22/07/2019

	Electronics Engineering 19EEE46-Linear Integrated Circuits	
BE	Electrical and Electronics Engineering 19EEL47-Microcontroller and Embedded Systems Laboratory	22/07/2019
View File		

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	Automobile Engineering	22/07/2019
BE	Computer Science Engineering	22/07/2019
BE	Civil Engineering	22/07/2019
BE	Electrical & Electronics Engineering	22/07/2019
BE	Electronics and Communication Engineering	22/07/2019
BE	Information Science & Engineering	22/07/2019
BE	Mechanical Engineering	22/07/2019
Mtech	Machine Design	30/09/2019
Mtech	Computer Science Engineering	30/09/2019
Mtech	Cyber Forensics and Information Security	30/09/2019
MBA	Marketing/Finance/ HR/ Business Analytics Operations	29/06/2019
MCA	MCA	22/07/2019

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
PRIMEVERA	22/01/2020	27
Introduction To PLC SCADA	07/08/2019	24
Embedded System For Drives	17/09/2019	24
Management and Leadership Program	06/03/2020	15
Amazon Web Services	02/09/2019	78
Life skills for Engineers	22/07/2019	311
Python	22/07/2019	233

Certification program on CCNA - v7 - Introduction to Network Certification	23/09/2019	27
Certification program on CCNA - v7 - Routing and wireless Essential	03/03/2020	22
Certification program on Ethical hacking	16/11/2019	10
View File		

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	Electrical & Electronics Engineering-Project	231
BE	Computer Science Engineering-Internship	228
BE	Computer Science Engineering-Project	228
BE	Electronics and Communication Engineering-project	222
BE	Electronics and Communication Engineering-internship	222
BE	Civil Engineering-Project	138
BE	Civil Engineering-Internship	138
BE	Mechanical Engineering-Project	200
BE	Mechanical Engineering-Internship	200
BE	Information Science	129
View File		

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: Feedback analysis is performed in various phases like Feedback collection process, Feedback assessment process and System

of reward / corrective measures. Feedback collection process is a well-structured mechanism followed by the college for all the courses. All the students are allowed to give feedback for their respective courses in online platform (Knowledge pro/Contineo software). The collected feedback is reviewed by the HOD. Frequency of feedback collection is done once in a semester (but oral feedback from Class Representatives is taken by HOD almost every month). Metric for the assessment is followed as grade scale of 5 for Excellent, grade scale 4 for very good, grade scale 3 for good, grade scale 2 for satisfactory and grade scale 1 for below average. The main objective of this feedback assessment is for improving the quality of education. Feedback assessment process follows a protocol for the feedback collected from students and first analysed by Department, 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 analysed as follows: Step1: Collection of feedback forms is based on parameters specified in questionnaire for all the subjects from the students. Step2: Considering the average for all the parameters, calculation of cumulative threshold is done. Step3: After the recommendations of IQAC, threshold value will be finalized. The normal value setup at present is 3.5. Step4: If the threshold exceeds 3.5, 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 monetary benefits. If he / she receives average or below average performance, he / she gets counselling and allows them to get correct their performances. System of reward / corrective measures is done based on the feedback assessment process. Best faculties of the departments are identified by the following factors: • Student's feedback • The faculty's self-appraisal report HOD's evaluation • The marks given by faculty appraisal committee, headed by principal • The increments and promotions also add some effect to these scores • If the faculty achieves 90 out of 100, an appreciation from the management will be awarded along with a monetary benefit of increment. Corrective measures: • Explanation from the faculty will be demanded for the inappropriate result and subsequent action will be processed. • Counselling 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
Mtech	CSE	18	4	4
MCA	MCA	120	120	120
MBA	MBA	180	180	180
BE	ME	180	169	169
BE	IS	180	189	189
BE	EE	120	130	130
BE	EC	180	186	186
BE	CV	180	140	140
BE	CSE	240	263	263
BE	AU	120	68	68

[View File](#)

2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1145	284	298	42	0

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
340	340	14	70	27	20

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

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

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

The department of Mentoring and Counselling offers individual, group and family counselling in the campus. Mentoring takes place in each department by allocating 20 to 25 students to a teacher who in turn becomes their designated mentor. Mentors are trained to keep in touch with students on a constant basis through WhatsApp groups and also on an individual basis. Most of the administrative questions and issues faced by students are resolved by the mentors themselves. In case the mentors genuinely think that a particular problem/s faced by a student is beyond his/her purview and needs professional counselling, then the students are referred to designated professional counsellors of the counselling department. All the UG and PG departments have dedicated professional counsellors who are available for student counselling. Many students opt for a walk-in counselling, and the remaining students are usually referred by the mentors or HODs. In any case, the objective of the counselling department is to ensure that the psychological issues faced by students are resolved in a professional and a logical manner. The mentors have initial meeting with their mentees to acclimatise them to the mentoring process. Mentors meet their mentees every fortnight and continually monitor their academics and behaviour. The mentors regularly advise their mentees (if intervention is required) based on the academic performance, attendance, behavioural issues etc. When mentors find no improvement with their guidance, they refer them to the professional counsellors. Students are also referred to the counsellors based on their academic performance. The Counselling Department is equipped with 7 professionally qualified counsellors who are easily approachable and help students to deal with their daily life challenges in developing an insight for making right choices and decisions in their lives. Counsellors conduct classroom sessions to spread awareness about counselling and to remove the stigma related to mental health issues (if any). These sessions help in increasing the acceptance of counselling. Counsellors help students to improve the understanding of themselves, including their pattern of thoughts, behaviour, feelings, and the ways in which these might have a negative influence in their lives. It also helps students to understand as to how to tap into various resources or develop new ones that enhance their academic and personal lives. The Counselling Department is headed by a Chief Counsellor who oversees the department and also conducts numerous workshops and seminars frequently for the welfare of students and teachers.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
5306	340	1 : 15

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
340	41	0	26	84

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. K.Gopalakrishnan	Dean	The CanSat/Rocketry International Competition 2019 Global Jury Award, Committee for Space Programme development (CSPD), Serbia
2019	Dr. K.C.R. Nisha	Professor	The CanSat/Rocketry International Competition 2019 Winner/First Place and Global Jury Award, Committee for Space Programme development (CSPD), Serbia
2019	Dr. K.Gopalakrishnan	Dean	Award of Appreciation to UNISEC India Chapter at NHCE, 7th UNISEC Global Meeting at Tokyo University
2019	Dr. S. Mohankumar	Professor	Award of Appreciation to UNISEC India Chapter at NHCE, 7th UNISEC Global Meeting at Tokyo University
2019	Dr M S Raghu	Professor	Young Achiever Award Institute of Scholars
2019	Dr Ganesh C	Professor	International Best Researcher in Electrical and Electronics Engineering, World Research Council and United Medical Council

[View File](#)

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MCA	MCA	ODD Semester	13/12/2019	21/12/2019
MBA	MBA	ODD Semester	13/12/2019	21/12/2019
BE	ME	ODD Semester	13/12/2019	21/12/2019
BE	ISE	ODD Semester	13/12/2019	21/12/2019
BE	EEE	ODD Semester	13/12/2019	21/12/2019
BE	ECE	ODD Semester	13/12/2019	21/12/2019
BE	CSE	ODD Semester	13/12/2019	21/12/2019
BE	CIV	ODD Semester	13/12/2019	21/12/2019
BE	BT	ODD Semester	13/12/2019	21/12/2019
BE	AUT	ODD Semester	13/12/2019	21/12/2019

[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	5306	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/mechanical-engineering/peo-po-psy/>

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
AU	BE	Automobile Engineering	55	47	85.45
BT	BE	Bio Technology	61	61	100
CS	BE	Computer Science & Engg	227	207	91.19
CV	BE	Civil Engineering	138	124	89.86
EC	BE	Electronics & Communication	201	178	88.56

		Engineering			
EE	BE	Electrical & Electronics Engineering	124	118	95.16
IS	BE	Information Science & Engineering	129	120	93.02
ME	BE	Mechanical Engineering	200	173	86.50
MBA	MBA	PG	175	172	98.29
MCA	MCA	PG	121	116	95.87
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)

<https://cutt.ly/8gJlJV8>

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
View File

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
International	Dr. K.Gopalakrishnan	Award of Appreciation to UNISEC India Chapter at NHCE	03/11/2019	7th UNISEC Global Meeting at Tokyo University
International	Dr. S. Mohankumar	Award of Appreciation to UNISEC India Chapter at NHCE	03/11/2019	7th UNISEC Global Meeting at Tokyo University
International	Dr. K.Gopalakrishnan	Young Research Engineer Award Presented by Padma Shri Mylswamy Annadurai	08/02/2020	UNISEC India and NDRF

International	Dr. K.Gopalakrishnan	Young Research Engineers Team Award to New Horizon Students' Satellite Team	06/03/2020	IEI-NDRF Centenary Celebrations
International	Dr. K.Gopalakrishnan	World CanSat/Rocketry Championship-Phase-0-International Webinar Certificate of Award	22/06/2020	WCRC, ITCA, BRICS FEO, UNISEC Global, TSC, MIIC, NDRF, GS, SpaceWay
International	Dr. K.Gopalakrishnan	Padma Vibhushan Prof. Satish Dhawan Birth Centenary Celebrations	25/09/2020	IIT-Kanpur
International	Dr. S. Mohankumar	Padma Vibhushan Prof. Satish Dhawan Birth Centenary Celebrations	25/09/2020	IIT-Kanpur
International	Dr. K.Gopalakrishnan	The CanSat/Rocketry International Competition 2019 Global Jury Award	03/10/2019	Committee for Space Programme development (CSPD), Serbia
International	Dr. K.C.R. Nisha	The CanSat/Rocketry International Competition 2019 Winner/First Place and Global Jury Award	03/10/2019	Committee for Space Programme development (CSPD), Serbia
View File				

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	7	AICTE	1.53	1.53
Major Projects	365	AICTE	3.5	3.5
Major Projects	365	AICTE	2.5	2.5
Major Projects	365	VTU	3	3
Major Projects	1095	AICTE	20	20
Major Projects	1095	AICTE -MODROB	19.71	19.71
Major Projects	2	CSIR-SEMINAR	0.3	0.3

		GRANT		
Major Projects	365	AIU, IBM, BCIC, UNISEC India	7	7
Major Projects	365	AICTE-FDP	3.18	3.18
Major Projects	365	VGST	2	2
View File				

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

9

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
Lowes campus challenge 2020	ISE	20/01/2020
IBM Nasscom future skills hackathon	ISE	15/07/2020
SAP Semicolon Hackathon 2019	ISE	01/10/2020
HCL IIT Kharagpur Hackathon	ISE	27/07/2020
FPGA	Electronics Communication Engineering	03/02/2020
Arm Programming on Android Devices	Electronics Communication Engineering	15/02/2020
Microwave Active Passive Devices	Electronics Communication Engineering	20/02/2020
Emerging Automotive Technology	Mechanical	14/09/2019
KSCST Projects and Project Management	Mechanical	23/08/2019
Mechatronics and Microcontrollers	Mechanical	14/09/2019
Power Plans for your success	Mechanical	19/09/2019
FDP on Benefits of R- Software	MBA	06/02/2020
FDP on EMIS software	MBA	13/02/2020
FDP on Digital Marketing	MBA	14/02/2020
Two days International Management/Faculty Development Programme on "The Role of Technology in Business Management for the Revival of Economic Slowdown	MBA	17/06/2020

[View File](#)

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
1st and 2nd place in Serbia International CONSAT / ROCKETRY Competition 2019	New Horizon College of Engineering	Serbia International CONSAT / ROCKETRY Competition	03/10/2019	Engineering / Technology
ARIIA Ranking 2020	New Horizon College of Engineering	MHRD, AICTE	18/08/2020	Band A
AICTE Utkrishtsansthan Vishwakarma Awards	New Horizon College of Engineering	AICTE	01/09/2020	Category 10
Boarding Pass: MARS 2020	Sanketh Huddar	National Aeronautics and Space Administration	01/07/2020	Boarding Pass: MARS 2020
Boarding Pass: MARS 2020	Sainath Vamshi	National Aeronautics and Space Administration	01/07/2020	Boarding Pass: MARS 2020
Certificate of Computation	Sainath Vamshi	SETI	08/11/2019	SETI@home project
Young Research Engineer Award	Sainath Vamshi	University Space Engineering Consortium (UNISEC), INDIA	08/02/2020	International CanSat Workshop: Space Quest and Launching of Cansats
Young Research Engineer Award	Vishwa Gopal	University Space Engineering Consortium (UNISEC), INDIA	08/02/2020	International CanSat Workshop: Space Quest and Launching of Cansats
Young Research Engineer Award	Sanketh Huddar	University Space Engineering Consortium (UNISEC), INDIA	08/02/2020	International CanSat Workshop: Space Quest and Launching of Cansats
ARISS SSTV Award	Sainath Vamsi	RSOISS	28/12/2019	Received SSTV images from Amateur Radio on International Space Station

[View File](#)

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
TSC Technologies Private Limited	Sanketh Huddar	Students	TSC Technologies Private Limited	Engineering projects related	24/02/2020
IGBC-NHCE Chapter	IGBC-NHCE Chapter	Indian Green Building Council	Green Building Technology	Brick Manufacturing using locally available materials	25/07/2019

[View File](#)

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science Engineering	1
Information Science and Engineering	1
Electronics and Communication Engineering	1
Mechanical Engineering	3
MCA	1
Civil Engineering	1
Electrical and Electronics Engineering	2

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	Basic Sciences	18	22.71
International	MBA	20	4.03
International	Civil Engineering	17	2.05
International	Computer Science Engineering	54	0
International	Information Science and Engineering	53	0
International	Automobile Engineering	25	0
International	Mechanical Engineering	62	0
International	MCA	16	0
International	Electrical and Electronics Engineering	15	0

International	Electronics and Communication Engineering	33	0
View File			

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
Electrical and Electronics Engineering	23
Civil Engineering	20
MCA	14
MBA	3
Mechanical	37
Automobile Engineering	9
Electronics and Communication Engineering	6
Information Science and Engineering	79
Computer Science Engineering	54
View File	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Novel System, Design and Methods of Compact CanSat: Satellite in a CAN E-2/3625/2019-CHE and Application No.201941046497	Published	201941046497	15/11/2019
Novel System, Design and Methods of Vertical Stack ANano CanSat (VSANCS) E-2/3626/2019-CHE and Application No.201941046498	Published	201941046498	15/11/2019
Novel System, Design and Methods of Circular Stack Can Satellite (CSCS) E-2/3624/2019-CHE and Application No.201941046496	Published	201941046496	15/11/2019
Novel System, Design and Methods of A-Nano Pocket CubeSat (ANPCS) E-2/3627/2019-CHE and Application	Published	201941046499	15/11/2019

No.201941046499			
Novel System, Design and Methods of Vertical Stack Rectangular Board CanSat (VSRBCS) E-2/3628/2019-CHE and Application No.201941046500	Published	2019410465	15/11/2019
Novel System, Design and Methods of Compact Interchangeable Stack CanSat (CICS) E-2/3629/2019-CHE and Application No.201941046501	Published	201941046501	15/11/2019
Novel System and Method of DNA Computing Towards the Solution of Minimum Vertex Cover Problem E-2/3633/2019-CHE and Application No.201941046505	Published	201941046505	15/11/2019
Novel System, Design and Arrangement of 3U QubeSat (3UQS) E-2/3814/2019-CHE and Application No.201941048764	Published	201941048764	28/11/2019
Novel System, Design and Arrangement of 1U QubeSat (1UQS) E-2/3818/2019-CHE and Application No.201941048768	Published	201941048768	28/11/2019
Novel System, Design and Making of Device Uses Neo Pixel Built-in Full Color Driving Lights Circular or Square PCB for Tube Sat/CanSat/CubeSat E-2/3819/2019-CHE and Application No.201941048769	Published	201941048769	28/11/2019
View File			

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
Smart Vision System for Visually Impaired People	Pramod Senc ha N P. Ma ngayarkara si, Muhammad Shahbaz Khan, Sunil K A	International Research Journal of Engineering and Technology (IRJET)	2020	0	New Horizon College of Engineering	0
Fake Indian Currency Note Recognition	FAB P. Man gayarkaras i, Akhilendu , Anakha A S , Meghashree K	International Research Journal of Engineering and Technology (IRJET)	2020	0	New Horizon College of Engineering	0
An Effective Data Hiding Mechanism Based on Encrypted Images	Aniket K Shahade, Priyanka V Deshmukh, A. S. Kapse, VM Thakare	IEEE	2019	0	New Horizon College of Engineering	0
Data Classification Approach For Text Analysis and its Ambiguity	Dr. A. S. Kapse, Ms. Supriya M. Yawalkar	International Journal of Computer Sciences and Engineering (UGC Approved Journal)	2020	0	New Horizon College of Engineering	0
"Study of Various Methods for Sentiment Similarity Analysis and its Applications in E-Commerce"	Dr. A. S. Kapse Garima Sharma, Prof. K. K. Chhajed	Our Heritage Journal (multidisciplinary UGC Care listed journal for research Publication)	2020	0	New Horizon College of Engineering	0
Result Analysis Implementation of Data Classification	Dr. A. S. Kapse Supriya M. Yawalkar	International Journal of Scientific Research in	2020	0	New Horizon College of Engineering	0

Approach For Text Analysis Its Ambiguity		Computer Science Applications and Management Studies				
Clustering with Modified Mutation Strategy in Differential Evolution	SeemaPatil, AnandhiRajamaniJayadharmarajan	Pertanika Journal of Science Technology	2020	0	New Horizon College of Engineering	0
Diversity based self-adaptive clusters using PSO clustering for crime data	S Patil, RJ Anandhi	International Journal of Information Technology (Springer)	2020	0	New Horizon College of Engineering	0
Improved Dynamic Cluster Head Election using Wireless Sensor Network	Jaya	International Journal of research in Engineering, Science and Management	2019	1	New Horizon College of Engineering	1
Hand Gesture Recognition using Convolutional Neural Network	Jaya	International Journal Of Information And Computing Science	2019	1	New Horizon College of Engineering	1

[View File](#)

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
Wear And Corrosion resistance of Titanium carbide coated Al7075 produced	Dr. M S Ganesha Prasad	Bulletin of Materials science	2020	68	1	NHCE

through PVD						
FDM Process Parameter Optimization by Taguchi Technique for Augmenting the Mechanical Properties of Nylon-Aramid Composite Used as Filament Material	Dr. M S Ganesha Prasad	Journal of The Institution of Engineers (India): Series C Mechanical, Production, Aerospace and Marine Engineering ISSN 2250-0545 J Inst. Eng. India Ser. C DOI 10.1007/s40032-019-00538-6	2019	9	3	NHCE
Diversity based self-adaptive clusters using PSO clustering for crime data	S Patil, RJ Anandhi	International Journal of Information Technology (Springer)	2020	0	0	New Horizon College of Engineering
Clustering with Modified Mutation Strategy in Differential Evolution	SeemaPatil, AnandhiRajamaniJayadharmarajan	Pertanika Journal of Science Technology	2020	12	0	New Horizon College of Engineering
Result Analysis Implementation of Data Classification Approach For Text Analysis Its Ambiguity	Dr. A. S. KapseSupriya M. Yawalkar	International Journal of Scientific Research in Computer Science Applications and Management Studies	2020	0	0	New Horizon College of Engineering
"Study of Various Methods for Sentiment Similarity	Dr. A. S. KapseGarima Sharma, Prof. K. K. Chhajed	Our Heritage Journal (multidisciplinary UGC Care	2020	0	0	New Horizon College of Engineering

Analysis and its Applications in E-Commerce"		listed journal for research Publication)				
Data Classification Approach For Text Analysis and its Ambiguity	Dr. A. S. Kapse, Ms. Supriya M. Yawalkar	International Journal of Computer Sciences and Engineering (UGC Approved Journal)	2020	0	0	New Horizon College of Engineering
An Effective Data Hiding Mechanism Based on Encrypted Images	Aniket K Shahade, Priyanka V Deshmukh, A. S. Kapse, VM Thakare	IEEE	2019	309	0	New Horizon College of Engineering
Fake Indian Currency Note Recognition	FAB P. Man gayarkaras i, Akhilendu , Anakha A S , Meghashree K	International Research Journal of Engineering and Technology (IRJET)	2020	0	0	New Horizon College of Engineering
Smart Vision System for Visually Impaired People	Pramod Senc ha N P. Ma ngayarkara si, Muhammad Shahbaz Khan, Sunil K A	International Research Journal of Engineering and Technology (IRJET)	2020	0	0	New Horizon College of Engineering

[View File](#)

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	394	1020	78	206

No file uploaded.

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)
Mechanical	HVAC Design Consultancy	OPTCOOL	10000

MBA	ESS IN INDIA	World 1 solutions	100000
MCA	Development of a Mobile App	Nanak Tex Fab, Ahmedabad, India	12000
Civil Engineering	Structural Consultancy	Anjani Tent House	50000
Civil Engineering	Testing and Evaluation	Manasa Gardens	40000
Civil Engineering	Planning and Structural Design	Rajan Painters	25000
Civil Engineering	Planning and Structural Design	Rajan Painters	25000
Mechanical	Enhancement of Productivity Studies	Pulse Sports Private Limited	90000
Mechanical	Design and Validation	Deeksha Enterprises	50000
Mechanical	Enhancement of Productivity Studies	Balaji Enterprises	25000

[View File](#)

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
Civil Engineering	Material Testing	Commercial building UNNAT VIBHAV	20000	20
Civil Engineering	Estimation of Quantity	Anugraha project	15000	15
Civil Engineering	Detailing of Re-inforcement in RCC	CONSTRUCTION OF RESIDENTIAL BUILDINGS	15000	15
Civil Engineering	Safety measures on site	Construction of multi storey parking	25000	22
Civil Engineering	Construction Management	HYCE engineers and infra PVT.LTD	25000	20
Civil Engineering	Surveying through Total Station	Construction of roads and culverts	30000	15
Mechanical Engineering	UGNX Training	Quest Global	27000	27
Mechanical Engineering	Training of New Inductees	Quest Global	35000	35

[View File](#)

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
Workshop on Industrial Automation and SCADA	New horizon college of engineering along with WARTENS Training Institute	3	62
Workshop on PCB Designing	New horizon college of engineering along with Livewire systems	1	54
Guest talk on "Eco Building"	New horizon college of engineering - Green energy club	1	33
School campaign on "Energy Conservation"	New horizon college of engineering - Green energy club	1	35
Covid-19 Awareness Program	Department of Civil Engineering, New Horizon College of Engineering.	22	121
Stem cell Donation	Stem cell registry India	1	95
Blood donation camp	Lions Blood Bank and NIMHANS	1	253
Talk on Microsoft word	New Horizon College of Engg	3	5
Video shooting of activities of Vonisha Foundation for unprivileged	New Horizon College of Engg	1	7
Talk on Cyber Security awareness	New Horizon College of Engg/Cyber security COE-Indian institute of science	1	50
View File			

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
Financial Contribution provided by institution/faculties/students towards the relief fund against spread of COVID-2019	Utkrisht Sansthan Vishwakarma Award - 2020 (India Fights Corona)	AICTE	500

Best project award	Project fund - final year	Karnataka state council for science and technology (KSCST)	3
View File			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Awareness Program	New Horizon College of Engg/Cyber security COE- Indian institute of science	Talk on Cyber Security awareness	1	10
Awareness Program	New Horizon College of Engineering	Webinar on Motivation for an Altered Mind Set	1	5
Mentoring Program	New Horizon College of Engineering	Mentoring	20	200
A Voluntary Organisation registered under Karnataka Societies Act 1960	Sumangali Seva Ashrama	Interaction with orphan children, down trodden deserted women and economically weaker people in society - to understand what real life is? Compared to the one we live!	2	180
Gender Sensitation program	Women Empowerment Committee, NHCE	Women empowerment - addressing issues, counselling, Higher studies and health management and self-defence techniques	20	400
Swachh Bharath	MHRD	Swachh horizon campus	4	63
Swachh Bharat	Department of Civil Engineering, New Horizon	Importance of Maintaining Hygienic conditions	6	45

	College of Engineering.			
World Water Day	Department of Civil Engineering, New Horizon College of Engineering	Preservation of Water	2	22
Environmental Day	Department of Civil Engineering, New Horizon College of Engineering	Save Earth	3	19
Blood Donation Camp	New Horizon College of Engineering.	Save Life by donating the Blood	15	75
View File				

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
study abroad program	NISHANT S	Scholarship	180
study abroad program	MEGHANA V	Scholarship	180
study abroad program	VIJAY S	Scholarship	180
study abroad program	YATHIN S	Scholarship	180
study abroad program	YESHASWINI K M	Scholarship	180
study abroad program	RAVEEN.S	Scholarship	180
study abroad program	Yash Sorathiya	Scholarship	180
study abroad program	Viraj Dobariya	Scholarship	180
study abroad program	Varun R	Scholarship	180
study abroad program	Keshava Kumar	Scholarship	180
View File			

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	Duration From	Duration To	Participant

		with contact details			
Internship	WBAN inter-body	Konigrantics Private Limited	01/02/2020	17/03/2020	Sannapaneni Pavani
Internship	Embedded C	India infotech	01/02/2020	17/03/2020	Sagar
Internship	IIOT PROJECT (Smart Garbage Collection System)	QUEST GLOBAL	01/02/2020	17/03/2020	S P Saaju
Internship	maintaince of car brake systems	QUEST GLOBAL	01/01/2020	17/03/2020	Sai Prashanth
Internship	Study of combat aircrafts and their Electronic systems	HAL	01/02/2020	17/03/2020	Sai Kiran
Internship	Overview of Metro Train Assembling	BEML	01/02/2020	17/03/2020	R.Pavan Raj
Student Internship	Internship On Shopping Site In Python	Live Wire Technologies	07/02/2020	30/04/2020	Bukkana Lakshmi
Student Internship	Windows Server Operations And Provisioning Millennium Products On Client-Side Servers	Cerner Corporation	06/01/2020	06/06/2020	Anurag Rajshekhar
Student Internship	Cooler Transfer System	Knowledge Lens	02/01/2020	02/04/2020	Alankrita Srivastava
Student Project	Parking Slot Management System	Quest Global	01/01/2020	01/05/2020	Chaithanya Devi K

[View File](#)

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
CONNECT-KX GmbH (European Center for Knowledge	04/03/2020	Organizing the activities like Projects,	60

Exchange)		Internships, Training, Workshops, Hackathon and International Placements	
IBM Open Power	28/02/2020	Aims to meet the challenging needs of industry, academia and society in the world of Artificial Intelligence (AI), Machine Learning and Deep learning.	475
Infibridge (Antara Software and Consulting (P) Ltd.)	20/10/2020	Skill Development and Value Added Consultancy in the field of AI and Machine Learning for the Students and Faculties of NHCE	60
AI CogLab	01/03/2020	The purpose of this collaboration is to help students to improve their hands-on-skills, make exciting projects of their own, and get to know the latest technologies.	60
Key link	01/02/2020	Training Certification	30
Capgemini	26/07/2019	Training on 3D experience by ENOVIA	180
Skyfi labs	17/07/2019	Hands on Training on CFD analysis software	50
SAP India Pvt. Ltd	25/07/2019	Training of students in ERP (Enterprise Resource Planning)	150
Trackinvest	23/09/2019	Hands on Training	120
Harvard Business School	11/02/2020	Conducting Value added programme for Global/ Professional students	50
View File			

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
999.97	893.37

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Easylib Software	Fully	4.4.7	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	36810	11531087	267	146583	37077	11677670
Reference Books	9902	2982835	161	68900	10063	3051735
e-Books	26202	2292105	455	0	26657	2292105
Journals	68	1970576	60	166485	128	2137061
e-Journals	7400	14438140	7361	1577672	14761	16015812
Digital Database	10	0	8	0	18	0
CD & Video	4215	0	19	0	4234	0
Library Automation	0	0	0	0	0	0
Weeding (hard & soft)	0	0	0	0	0	0

Others (specify)	5112	0	703	0	5815	0
No file uploaded.						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.Jisha.P.K	Quantum Mechanics	Youtube	05/06/2020
Dr.K.Dhanalakshmi	Dielectric Magnetic properties	Youtube	05/06/2020
Dr.Rohini B	Lasers Fiber Optics	Youtube	05/06/2020
Dr.Ramachandra Naik	Conductors Semiconductors	Youtube	05/06/2020
Dr. Prashanth K S	Engineering Physics Lab Videos(12 Experiments)	Youtube	12/05/2020
Dr. Parashuram L	Pka of weak acid	Youtube	05/05/2020
Dr. Anasuya V S	Potentiometry	Youtube	06/05/2020
Dr.Raghu MS	Viscosity Coefficient	youtube	07/05/2020
Dr.Piyushi Nautiyal	Colorimetry	youtube	08/05/2020
Dr.Asha PK	Conductometry	youtube	09/05/2020
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1618	140	200	2	0	53	61	200	0
Added	10	0	100	0	0	0	0	100	0
Total	1628	140	300	2	0	53	61	300	0

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

300 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
NHCE Lab Videos-Physics lab	http://newhorizonindia.edu/nhengineering/physics-lab-experiment/
NHCE Lab Videos-Chemistry lab	http://newhorizonindia.edu/nhengineering/chemistry-lab-experiments/
NHCE Lab Videos-Automobile Engineering	http://newhorizonindia.edu/nhengineering/automobile-lab-experiments/

NHCE Lab Videos-Mechanical Engineering	http://newhorizonindia.edu/nhengineering/fluid-mechanics-lab-experiment/
NHCE Lab Videos-Civil Engineering	http://newhorizonindia.edu/nhengineering/civil-engineering-lab-videos/
NHCE Lab Videos-Computer Science Engineering	http://newhorizonindia.edu/nhengineering/c-programming/
NHCE Lab Videos-Electrical and Electronics Engineering	http://newhorizonindia.edu/nhengineering/basic-electrical-engineering-laboratory/
NHCE Lab Videos-Electronics and Communication Engineering	http://newhorizonindia.edu/nhengineering/dsp-lab-19ec148/
NHCE MCA Department	http://newhorizonindia.edu/nhengineering/mca-v-sem/
NHCE Laboratory Videos Odd semester	http://newhorizonindia.edu/nhengineering/resources/#1601381145431-5f277b04-168e
NHCE Laboratory Videos Even semester	http://newhorizonindia.edu/nhengineering/resources/#1601381145418-94dded20-d6b1

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
424.67	674.31	1702.12	1371.76

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)

Laboratories: All the Laboratories at NHCE are well equipped with the best facilities as per the course curriculum. To maintain the laboratories in good condition, the labs are audited periodically for ensuring good infrastructure, systems followed in the laboratories and utilisation of laboratories. Apart from the regular laboratories there are ten numbers industry sponsored laboratory and centre of excellence namely, Indo French Centre of Excellence - Electricity Automation and Energy - Schneider Electric, Cisco Networking Academy, SAP Next - Gen Lab, Quest Global IIoT Centre of Excellence, Vertica, IBM Open Power Artificial Intelligence Centre of Excellence, VMWARE Centre of Excellence, Capgemini's Digital Engineering and Manufacturing Services Lab, Automation Anywhere, Centre of Excellence in Robotic Process Automation (RPA) for the development of students and to strengthen the department. **Library:** The NHCE Library is a resource center for teaching, learning research. The major objective of our library is to provide authentic information to the student at any given point of time. The library is spread over two floors with 605 seating capacity, state of art digital library, Adobe Digital Center of Excellence, ID-Card Center, Video Conference Room, Online class room with recording facility, Students Discussion Rooms, Faculty Discussion Room, and Books Stationery shops are available. Currently the library holds over 47138 volumes, 60 print journals, provides access to electronic resources, newspapers, and business magazines, and 4225 multimedia resources, and also have institutional membership of ISTE, CSI, DELNET, IETE, and IEI. **Sports Complex:** 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. Computers: The Computer Labs are artistically and ergonomically designed, where students get an opportunity to develop their skills. The labs are enabled with faster internet access facility which provides the students with great opportunities to remain updated on emerging trends and technologies. The department concentrates on upgrading its facilities by including the state-of-art technology in hardware and software. Students get the best computer setup which includes different Operating systems, Computer Networking, Multi-OS-Access, latest software packages as well as emerging high-level languages. The Network laboratories enable students to do their network projects on real world problems. Classrooms: All the departments are set with sufficient infrastructure consisting of smart classrooms, seminar halls, and tutorial room. The spacious and ventilated classrooms are equipped with LCD/LED projectors, portable speaker phones/megaphones facility. Some of the classrooms are equipped with smart boards also.

<http://newhorizonindia.edu/nhengineering/>

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 -VTU Autonomous (Academic Year 2017-18) Out Going Toppers (2018-19 UG PG)	34	532290
Financial Support from Other Sources			
a) National	Social Welfare Department Director Technical Education DTE Pratibha Puraskar Defence(DTE) BCM(E-Pass) Sitaram Jindal Foundation Other State Govt/Minority Scholarships AICTE - PMSS (JK)	1164	30345917
b) International	NIL	0	0

[View File](#)

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 implementation	Number of students enrolled	Agencies involved
Soft Skill Development	08/01/2019	55	Department of Humanities
Counseling and Mentoring	08/01/2019	193	Department of Counseling and Department of Automobile Engineering
Remedial Coaching	08/01/2019	40	Department of Automobile Engineering
Placement Training	08/01/2019	55	HRD- Training and Placements and Department of Automobile Engineering
Prerequisite classes (Abridging PUC/12th to Engineering)	23/07/2019	640	Conducted by BSH Department
Induction Programme (Yoga, Meditation)	19/08/2019	1150	Conducted by BSH Department (Led by Dr. Suma T, Professional Yoga Trainer, Department of Mathematics) Rotary Club
Mentoring	19/08/2019	1150	Faculty members were assigned students in batches for mentoring. Faculty would periodically mentor the progress and enter the comments in the data base. Students who need further attention was referred to counselors.
Personal Counseling and Mentoring	08/01/2019	778	CSE Department Faculty and Counseling Department Counselors
Remedial coaching Class	16/01/2019	151	CSE department
Soft skill development	08/01/2019	315	NHCE
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the

institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Guidance for Competitive Examination and Career Counselling	50	50	0	14
2019	HR TALK	0	194	0	194
2019	Soft skill Development	198	165	0	158
2019	career counseling	0	120	0	35
2019	Training for competitive exams and Placements training	3	129	2	116
2019	Training for Competitive Exams and Placements Training	9	113	1	67

[View File](#)

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
119	15331	641	119	15331	4

[View File](#)

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E	MCA	Ontario Tech University	Master's of Information Technology S

					Security(MITS)
2019	1	B.E	Mechanical Engineering	Glasgow University	MSc in Mechanical Engg
2019	1	B.E	Mechanical Engineering	Arizona State University	MS
2019	1	B.E	Mechanical Engineering	MIT, Manipal	Thermal Power Engineering
2019	1	B.E	Information Science and Engineering	University of Illinois, Chicago	Fashion Technology
2019	1	B.E	Information Science and Engineering	Syrucus University. University Of Rochester. Rochester Institute Of Technology	MS in Data Science
2019	4	B.E	CSE	Queens University,,USC, ASU,NJIT	M.S
2019	2	B.E	CSE	NHCE	M.Tech
2019	1	B.E	Automobile Engineering	Loughborough University	M.Sc. Automotive Systems Engineering.
2019	1	B.E	Automobile Engineering	Birmingham City University	Master of Science Automotive Engineering
View File					

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
NET	0
SET	0
SLET	0
GATE	0
GMAT	3
CAT	0
GRE	12
TOFEL	6
Civil Services	1
Any Other	1

[View File](#)

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

Activity	Level	Number of Participants
Weight Lifting(M)	University Level	1
Best physique	University Level, State Level, National Level	6
Table Tennis (MW)	University Level, State Level, National Level	15
Football	University Level, State Level, National Level	54
Badminton (MW)	University Level State Level	12
Judo (M W)	University Level	16
Wrestling (MW)	University Level	16
Kabaddi (M)	University Level, Inter-University ,State Level, National Level, International Level	5
Volleyball (M)	University Level, Inter-University ,State Level, National Level, International Level	61
Basketball (MW)	University Level, Inter-University ,State Level, National Level, International Level	97

[View File](#)

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
2019	Runner up - Mime	National	0	1	1NH18CS083	Mr. Joel CC
2019	Runner up - Mime	National	0	1	1NH19ME723	Mr. Lakshmesh K
2019	Runner up - Mime	National	0	1	1NH19M3738	Mr. Yashvanth D
2019	Runner up - Mime	National	0	1	1NH17CS752	Mr. Sreehari N R
2019	Runner up - Mime	National	0	1	1NH18EC133	Mr. Bharath
2019	Winner -	National	0	1	1NH18CS083	Mr. Joel

	Street Play					CC
2019	Winner - Street Play	National	0	1	1NH19ME723	Mr. Lakshmesh K
2019	Winner - Street Play	National	0	1	1NH19M3738	Mr. Yashvanth D
2019	Winner - Street Play	National	0	1	1NH17CS752	Mr. Sreehari N R
2019	Winner - Street Play	National	0	1	1NH18EC133	Mr. Justin George
View File						

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 co-curricular 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

NHCE Alumni Association is been registered dated on 09th March 2017 bearing Registration number DRB-3/SOR/578/2016-17

5.4.2 – No. of registered Alumni:

1471

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

15000

5.4.4 – Meetings/activities organized by Alumni Association :

- Alumni Meet • Alumni Sports Meet • Alumni Guest talk • Technical talk by Alumnus • Placement Drive • Internship Program

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 various 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. In Plant 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 30. Counseling Committee 31. Disciplinary Committee 32....40. The institute

believes in decentralization. As a result, power has been delegated to the members to control the activities of the institution

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	<p>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/sports scholarships/ 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 Reach out to the Target Audience/Aspirants for Brand Building and Generating Awareness. e)Gold Medal Awarded to Best outgoing Student.</p>
Human Resource Management	<p>The Quality Assessment and Skill Development Center is established to increase the effectiveness of each member in particular and the institution as a whole. The main aim of QASDC are To stimulate result-oriented development. To provide clarity for standards of performance. To provide opportunities for planned self - assessment. To provide continual assistance for professional progress. To create a climate for professional improvement in the individual and for the success of the institution. To create competitive global social environment for the progress of all.</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>The NHCE Library is a resource center for teaching, learning research. Being the heart of the academic center, it is home for all the information services. It plays a proactive role in enabling access to information resources of all kind and providing innovative, responsive and effective services to meet the changing needs of the academic community. The major objective of our library is to provide authentic information to the student at any given point of time. The library is spread</p>

over two floors with 605 seating capacity, state of art digital library, Adobe Digital Center of Excellence, ID-Card Center, Video Conference Room, Online class room with recording facility, Students Discussion Rooms, Faculty Discussion Room, and Books Stationery shops are available in the Ground Floor and Stack Area, Reference Section, Circulation Counter, OPAC Search, Journals/Magazines and Newspaper Sections are made available at the Lower Level of the library building. The Library holds a hybrid collection of printed as well as electronic resources which include books, journals, databases, audio-visuals, CDs/DVDs, e-books, e-journals, reports, course materials, previous years question papers, bound volumes, project reports, case studies, conference proceedings, training manuals, etc. Currently the library holds over 47138 volumes, 60 print journals, provides access to electronic resources, newspapers and business magazines, and 4225 multimedia resources, and also have institutional membership of ISTE, CSI, DELNET, IETE, and IEI. The details of the library is mentioned in the website: <http://newhorizonindia.edu/nhengineering/library-new/>

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 BoE coordinator receives the circular from the office of the CoE to identifying 3 internal faculties and 2 external faculties for each subject. The question papers setters are identified as experts in the field, with no less than 5 years of experience in handling the subject. The order to set the question papers is E-mailed to the SEE question paper setters along with the following:

- Copy of the guidelines for question paper setters.
- Syllabus of the concerned course/courses.
- Bloom's Taxonomy.
- Question Paper Format.

The received SEE question papers are scrutinized by BoE members chaired by the Head of the Department, along with one external scrutinizer. The COE then randomly

	picks different sets of question from each question paper to set an unique question paper to the students.
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	To strengthen the teaching-learning process, following initiatives have been taken: A. Adherence to Academic Calendar B. Preparation of academic action plans C. Pedagogical Initiatives - Content Delivery (method of instruction) i) Digital library ii) Use of Contineo software iii) Course Handouts iv) Project Based Learning v)Continuous Internal Evaluation (CIE) Test D. Methodologies to support weak students and encourage bright Students i) Mentoring System ii) Identification of Weak Students / Fast Learners iii) Action Taken E. Quality of Classroom Teaching F. Conduct of Experiments G. Student Feedback and action taken H. Department Quality Assurance Cell Also Online classes were conducted to the students during COVID-19
Research and Development	R and D Cell is headed by the Dean of Research and Development at New Horizon College of Engineering (NHCE), Bangalore. The various facilities, proactive initiatives to promote research (both sponsored academic research) and consultancy are unparalleled at NHCE. The vibrant R and D culture fosters innovative spirit to

kindle the young minds at the campus under able guidance and mentorship of motivated faculty members at all the departments. The sustained and passionate efforts of RD Cell at NHCE have carved a niche in India and abroad for NHCE. R and D Cell has established vibrant Institution's Innovation Council (IIC) and also has active collaborations with various work groups and professional bodies in India and abroad. The various initiatives under Pico-Nano-Micro Satellites are gaining global recognition and appreciations. The support provided by our Chairman, Principal, Deans, Heads of Departments, Professors and Senior Faculty Members in the process of promoting of research, filing patents is greatly acknowledged. The details of the R and D cell can be obtained in the mentioned website: <http://newhorizonindia.edu/nhengineering/researchnhce/>

Industry Interaction / Collaboration

The purpose of Industry Institute Collaboration Cell which shall be referred to as IIC hereon is to ensure a paradigm shift in the thought process of a New Horizon student from J2C (Job to Career).This should lead a student towards identification of a SMART CAREER GOAL . Taking a step further, IIC would endeavor to establish connect between eminent faculty members and the relevant industries to join hands and work towards mutually beneficial cause/projects. The Objectives of IIC are 1.To provide Internships 2. To develop Centre of Excellence 3.Industry/incubation 4.Industry Integration The details of IIC can be obtained through the below mentioned website: <http://newhorizonindia.edu/nhengineering/industry-institute-interaction-cell/>

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

E-governance area	Details
Planning and Development	1. Contineo Software for Academic Process (CIE/SEE) 2. HRMS software for personal and academic achievements of faculties
Administration	1.ERP 2.HRMS 3.Teaching Learning:Google Forms/WhatsApp/Class Group etc 4. Contineo Software for Academic Process (CIE/SEE) 5. Placement Stack 6. RD Project Monitoring: Mobile App

Finance and Accounts	<p>1.On line fee collection from students 2.On line salary payment 3. On line deposit of PF 4.On line deposit of TDS 5.On line leaves approvals 6.On line payslips and leave records of staff.</p>
Student Admission and Support	<p>1.Online Admission Test 2.Online/Realtime Video Conferencing based Counselling Sessions 3.Online Brochures/walkthrough Campus 4. 360 degree Campus View at NHCE Website 5.Campus Shadowing Opportunities: Skype Sessions 6.Open House Awareness Sessions to Potential Aspirants: Online FAQs 7.Autonomous with CBCS: Industry Sponsored Labs as Centers of Excellence 8. 24 x 7 Library Support with Digital Access WiFi Campus j) 9. Digital Library and Free Access Digital Learning Resources 10. Encouragement to Enroll in NPTEL/MOOC s Courses/NPTEL Examination Center at NHCE</p>
Examination	<p>1. Centralized Examination and Evaluation is promoted. 2. Provision of Online and offline examination options to the students due to COVID-19 3.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. 4.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. 5.Enhanced Online Result Processing System</p>

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr.Rajesh G	SPARC Sponsored Workshop on "Advanced Signal Processing and Machine	NHCE	1000

		Learning Techniques for Wireless/Optical Communications", NIT Warrangal December 2-7, 2019		
2019	Dr.A.B.Gurulakshmi	FDP on ARM Architecture and System Onchip Design, IIT Goa, December 1-3, 2019	NHCE	1500
2019	Dr.M.Dhivya	FDP on ARM Architecture and System Onchip Design, IIT Goa, December 1-3, 2019	NHCE	1500
2019	Dr.Reema Sharma	CISCO Industrial Training Certification, February-March 2020	NHCE	37000
2019	Mr.GangadharImmadi	3 Days FDP on Big Data and Deep Learning organized by MVJ college of Engineering, Bengaluru	AICTE	1000
2019	Mr.GangadharImmadi	5 Days FDP on Machine Learning for Data Science Analytics, Organized by VTU Belagavi Under TEQIP III programme	TEQIP	2000
2019	Dr.L.Srinivasan	5 Days FDP on Machine Learning for Data Science Analytics, Organized by VTU Belagavi Under TEQIP III programme	TEQIP	2000
View File				

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)
2020	NIL	Introduction to ESXi and Virtual Machines	22/04/2020	22/04/2020	0	2
2020	NIL	Introduction to vCenter and Managing the Inventory	22/04/2020	22/04/2020	0	2
2020	NIL	Introduction to vSphere Networking	27/04/2020	27/04/2020	0	2
2020	NIL	Introduction to Virtual Machines Migration	29/04/2020	29/04/2020	0	2
2020	Virtual FDP on VMWARE Vsphere	Virtual FDP on VMWARE Vsphere	22/06/2020	26/06/2020	2	4
2020	Varied skills and techniques for teaching learning process- Practical sessions	NIL	02/01/2020	12/01/2020	35	0
2020	FDP on Deep Learning	NIL	28/01/2020	30/01/2020	35	0
2020	Online FDP on "Image Video processing Techniques using Python Programming	NIL	15/06/2020	19/06/2020	35	0

2020	Varied Skills and techniques for teaching learning process- Practical Sessions organized by Quality Assessment and Skill Development Centre, NHCE	NIL	02/01/2020	30/01/2020	11	0
2020	FDP on Data visualization using Google Data organized by Dept of MCA, NHCE in association with Skyfi Labs, Bangalore	NIL	27/02/2020	27/02/2020	11	0
View File						

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
One Week online FDP on Recent Trends in Engineering : Industry Perspective	3	26/07/2020	30/07/2020	5
Two Days FDP: IoT and Cyber Security -an Industry Perspective	1	22/07/2020	23/07/2020	2
Five Days Virtual FDP on Agile Methodology	5	14/07/2020	18/07/2020	5
Artificial Intelligence	1	17/07/2020	19/07/2020	3

and Neural Networks				
IOT-APPLICATIONS	1	01/06/2020	05/06/2020	5
Machine Learning for Data Science and Analytics	1	28/01/2020	01/02/2020	5
Recent Trends in Information technology	2	13/07/2020	18/07/2020	6
Multidisciplinary Trends in Information Technology	3	21/07/2020	25/07/2020	5
Machine Learning using Python	1	25/05/2020	29/05/2020	5
FDP on ICT Tools for Course Preparation and Evaluation using Gnomio and Kahoot	1	27/07/2020	28/07/2020	2
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
340	340	193	193

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
Indian Technology Congress Association, TSC Technologies, Committee for Space Programme Development, Serbia,	7500000	Interdisciplinary development activities

University Space
Engineering Consortium,
National Design and
Research Forum, Indian
Institution of Production
Engineers, FEE, FARE etc

No file uploaded.

6.4.3 – Total corpus fund generated

7500000

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	VTU LIC and External experts	Yes	Management repr esentatives, Principal and Deans
Administrative	Yes	VTU LIC and External experts	Yes	Governing Council Members

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

Every Semester the Institute and each Department organizes "Parent-Teacher Meet" that serves as a connection platform for parents, teachers and the students, where teacher and parents come together to enrich the student's educational experiences and discussed variety of issues, regarding all round development of students. Some of the developments which happened during the PTA are listed. 1.Availability of all the course materials in the institution website:To facilitate remote learning, all the course materials including the lecture videos and lab videos were made available in the institution website and the same was conveyed to parents also 2. WhatsApp group with parents for placement related activities: To facilitate the suggestion from parent to enable them to easily track whether students are attending placement classes, WhatsApp groups for parents were created. This served as a platform for the parents to interact with the placement queries etc and immensely helped the parents during this pandemic situation to keep track of the requirements with respect to Placement Training Activities. 3.The Parent Portal features through CONTINEO software: The parents were informed about how to access the student performance like attendance, marks, etc from the student portal through CONTINEO software. The various features of the same were explained to parents to support them to monitor the performance of their wards. 4.Online PTA conduction: During the Covid pandemic also, an online PTA was conducted and suggestions from parents regarding the conduction of exams etc were taken into consideration. Many parents welcomed this idea of Online PTA, and it was really a successful event, as even the working parents could also make time to attend the same. The Parent Teachers meeting across various departments were held on on 20/05/2019, 14/09/2019 , 30/11/2019, 15/05/2020, 20/10/2020, 21/10/2020

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

1. FDP on "Varied skills and techniques for teaching learning process-Practical sessions" for the Teaching Staff of MBA and MCA of New Horizon College of Engineering-29th and 30th January 2020 2. FDP on "Varied skills and techniques for teaching learning process-Practical sessions" for the Teaching Staff of New

Horizon College of Engineering-2nd to 13th and 25th January 2020 (4 batches).
 3. Basic spoken English and Kannada classes for the security personnel of NHCE from 2nd to 18th December 2019
 4. Internal NAAC and NBA audit of NHCE in August 2019
 5. Exclusive Workshop for Counselors of NHEI on 'Adolescent behavior-challenges faced by them various therapies/counseling techniques used'- 14th August 2019
 6. Induction program for the new teaching Staff of New Horizon College of Engineering- 18th, 19th and 27th July 2019
 7. Workshop on 'Data presentation skills through MS office-MS-word and Power Point' organized for Lab Instructors/ assistants on 18th 19th of July 2019
 8. FDP on "Self-learning ecosystem" for the Teaching Staff of New Horizon College of Engineering- 13th to 28th June 2019 and 1st and 2nd July 2019 (five batches)
 9. Online Training for Faculties on Innovative Teaching Methods, 28th September 2020.

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

1. Established Centers of Excellence in Product Life Cycle Management by CAPGEMINI, Renewable energy
 2. Pre-Placement training classes to the students across all departments.
 3. Internship programs for faculties
 4. NPTEL/SWAYAM courses for faculties and students
 5. Inclusion of Mini projects for students in 2nd and 3rd year
 6. Conduction of International Conference on Innovative research

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	Formation of MHRD Institution Innovation Council (MIIC)	04/06/2019	04/06/2019	04/06/2019	136
2019	Faculty Evaluation Metrics on their RD Performance and Publication Credentials	03/07/2019	03/07/2019	03/07/2019	225
2019	Institution Innovation Council (IIC 2.0) Meeting of Q1 Meeting	04/07/2019	04/07/2019	04/07/2019	33
2019	FDP on Application of ETABS in Civil	11/07/2019	11/07/2019	17/07/2019	52

	Engineering and Hands on Training on Advance Surveying Instruments				
2019	Workshop FDP on Knowledge Transfer Session on Vertica Database and Induction Programme	18/07/2019	18/07/2019	19/07/2019	50
2019	FDP on Outcome Based Education	30/07/2019	30/07/2019	30/07/2019	218
2019	Seminar on Wireless Generations Leading to 5G Organised Jointly with IETE	02/08/2019	02/08/2019	02/08/2019	110
2019	Workshop on Design and Develop Commercial Transformers on par with Industry Standards	08/08/2019	08/08/2019	08/08/2019	31
2019	Workshop on Personal Professional Commitment to the Advancement of Technology-Organised with IEEE	20/08/2019	20/08/2019	20/08/2019	132
2019	FDP on Idea, Opportunity and Business Plan	31/08/2019	31/08/2019	31/08/2019	150
View File					

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	Period from	Period To	Number of Participants
--------------	-------------	-----------	------------------------

programme			Female	Male
Interaction session with girls students followed by self defense techniques conducted by Women Empowerment Committee (WEC)	10/03/2020	10/03/2020	50	0
NHCE International Women's Day	10/03/2020	10/03/2020	150	20
Opportunities for Women in 2020	01/02/2020	01/02/2020	500	0
Planning of Stable & Professional Career for Women Engineers of 21st Century	16/10/2020	16/10/2020	500	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

Solar PV system: With rampant power cuts in the city, institutes are increasingly looking at alternative solutions to manage their power needs. In one such effort, a solar plant has been installed by Department of Mechanical Engineering, New Horizon College of Engineering. The 30kW solar photovoltaic system was set up at Sardar Vallabhbhai Patel block. The power from the solar PV system is currently being supplied to all Class Rooms laboratories in the block. Hybrid (solar and wind) Power generation: New Horizon College of Engineering, has successfully installed the 'Hybrid Solar-Windmill Power Generating Unit'. The unit is mounted at the 'Sardar Vallabhai Patel Block' of New Horizon College of Engineering, Marathalli, for basic lighting purposes. Around 10 of the power requirement of the institute is met by renewable energy sources.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for differently abled students	Yes	1
Braille Software/facilities	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	0	29/02/2020	1	Indian Institute of Science, IISc Open Day 2020, Bangalore	Exposure to popular lectures, experimental demos, poster presentations, quiz contests, scientific competitions, and exhibitions showcased in the various departments and centers	82
2020	0	1	20/02/2020	1	Visit to Sumangali Seva Ashram, Hebbal	Social centric activity	62
2019	1	0	25/10/2019	1	Visit to Industries	Practical Knowledge about the work environment	48
2019	1	0	19/10/2019	1	Visit to Industries	Practical Knowledge about the work environment	23
2019	1	0	13/09/2019	1	Visit to Industries	Practical Knowledge about the work environment	24
2019	1	1	24/08/2019	1	UBA (Jana Arogya Yojana)	Awareness on Ayushman Bharat	32

						Yojana	
2019	1	1	30/09/2019	1	Skill Personality development Programme for SC/ST students	Awareness program on entrepreneurship	100
2019	1	1	27/09/2019	1	Rural Development Programme	Swacch Bharat program organized in Cheemasandra, Nimbekaipura, Doddagubbi, Rampura, Anagalapura	150
2019	4	1	09/09/2019	1	Green Energy club Awareness campaign among government primary school students	Awareness about Energy conservation, conservation of natural resources, Renewable energy resources, Global warming	135
2019	1	0	25/09/2019	1	Clean and Plastic free Campus Awareness Program.	Environment-Awareness to have Clean and Plastic free Campus	220
View File							

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Handbook on Academic Guidelines	22/07/2019	The handbook provides the rules and Regulations for various stakeholders such as Students, Parents and Employers.
Service rules handbook	22/07/2019	The handbook provides the rules and regulations for faculties.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Motivational Talk by Mr. B R Indu Shekar, VP Operations, Volvo India	22/07/2019	22/07/2019	1260
Life Skills for students by Dept Life skills and Lifelong learning	06/08/2019	07/08/2019	1260
Sensitizing JK students by Ms. Ruhi	08/08/2019	08/08/2019	70
Importance of Learning Foreign Languages	09/08/2019	09/08/2019	1260
Sadhbhavana Day	20/08/2019	20/08/2019	1260
Yoga Art of Living	19/08/2019	24/08/2019	1260
Mera Bharath Mahan	08/08/2019	08/08/2019	1260
BE GOOD and DO GOOD	21/01/2020	21/01/2020	1260
Visit to Visvesvaraya Technological Museum	08/02/2020	08/02/2020	1260
Know Yourself, Know Your Country and Know Your Culture	11/02/2020	11/02/2020	1260
View File			

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

Open air parking and stress busters 2. Rain water harvesting system 3. Waterless urinals and taps with auto cut off option 4.Organic waste converter 5. Solar PV system and Windmill power generation- Green Energy-Clean Energy 6.Concept of clean and green campus 7.“One Student One Tree” 8. Make the Country Free from Single-Use Plastics (SUPS)

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. MENTORING COUNSELLING Each student is assigned an Academic Mentor. An exclusive Counseling Department is established, consisting of five Student Counselors for student support 3. GROUP LEARNING Group Learning is encouraged and Discussion Rooms are provided in the Library for the same. 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. CORRECTIVE ACTION AND PREVENTIVE ACTION (CAPA) Corrective Action and Preventive Action is practiced for improving student performances 6. WATER CONSERVATION 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". ENERGY CONSERVATION The Campus has set up 30 KW SOLAR ENERGY to derive energy from natural sources The Campus has set up WIND MILL 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. 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 7. 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 eco-friendly. Students enthusiastically take part in Tree Plantation Programs which are regularly organized. E-waste and Hazardous waste management is practiced. A well equipped Organic Waste Converter is installed. One sided sheets are used for reducing wastage 8. ADDITIONALLY • Water Conservation-Rain Water Harvesting, Sewage Water Purification Plant • Energy Conservation - Solar Panels, Wind Power ,Educative Posters • Waste Management - E-waste management, organic waste converter room, hazardous and non-biodegradable waste management • Concession in Tuition Fee and Free ship in NHEI for children of NHCE staff • Uniforms for all class IV employees • Higher Studies Leave Benefit for staff • Felicitation on completion of Ph.D • Teachers are recognized for their services on the occasions of Teachers' Day and Founders' Day • International Women's Day is celebrated promoting women empowerment • Increments in salary is provided when faculty members upgrade their qualification • Subsidised food and accommodation is provided for security and maintenance staff • Bonus is presented for all technical and non teaching staff for Dussera festival • Gifts are presented to all staff members on the occasion of Diwali and Dussera • Staff members' birthdays are celebrated with chocolates, cakes, gifts and cards. • Marriage gifts for employees and their children • Tie up with Hospitals to provide concessional medical facilities for staff members and students • Blood Donation Camps are organized regularly by the institute • Maternity Leave benefits as per NHCE policy • Staff injured inside the campus will get the benefit of full medical expenses coverage along with leave facility • Insurance Coverage for technical and non-teaching staff • Medi-claim coverage for technical and non-teaching staff • ESI Coverage for all eligible employees • Free transport facility to all staff members

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

- New Horizon College of Engineering receives the AICTE - Utkarsh Sansthan Vishwakarma Award 2020 (India Fights Corona) under Category 10, for the Financial Contribution provided by the Institution/Faculty/Students towards the relief fund against the spread of COVID-19 across India.
- NHCE has secured All India Rank: 6th-25th (Band "A") in ARIIA-Atal Ranking of Institutions on Innovation Achievements (MHRD) under the Private Institutions Category for the year 2020.
- New Horizon College of Engineering has been Ranked 114 amongst the Top Engineering Colleges across India, as per the National Institutional Ranking Framework (NIRF 2020) Rankings, announced by MHRD, Govt.of India.
- Honored with the distinguished "EXCELLENCE IN PROVIDING PREFERRED ENVIRONMENT

FOR CAMPUS PLACEMENTS" award. The award was presented by Hon'ble Minister of State for Skill Development Entrepreneurship, Govt. of India, Mr. Mahendra Nath Pandey during 13th ASSOCHAM Higher Education, Skill Livelihood Conclave held on 25th 26th February 2020 at New Delhi. • Honored with the distinguished "B-SCHOOL PROVIDING PREFERRED ENVIRONMENT FOR CAMPUS PLACEMENTS" award. The award was presented by Hon'ble Minister of State for Skill Development Entrepreneurship, Govt. of India, Mr. Mahendra Nath Pandey during 13th ASSOCHAM Higher Education, Skill Livelihood Conclave held on 25th 26th February 2020 at New Delhi. • Honored with the distinguished "MOST PREFERRED INSTITUTE FOR PROVIDING GLOBAL EXPOSURE" award. The award was presented by Hon'ble Minister of State for Skill Development Entrepreneurship, Govt. of India, Mr. Mahendra Nath Pandey during 13th ASSOCHAM Higher Education, Skill Livelihood Conclave held on 25th 26th February 2020 at New Delhi. • NHCE has represented INDIA and Won 1st and 2nd Place during Serbia International CanSat/Rocketry Competition 2019 at Serbia • UNISEC India and NDRF Golden Jubilee Young Research Engineer Awards to 12 NHCE Students and Award of Appreciation to NHCE from Japan, Indo-Israel Award to Dr. K. Gopalkrishnan, Dean (RD)-NHCE

Provide the weblink of the institution

<http://newhorizonindia.edu/nhengineering/>

8.Future Plans of Actions for Next Academic Year

- To apply for NAAC accreditation under cycle 2 and ensure the accreditation with A Grade
- To get NBA Accreditation under Tier-1 category for all UG programs
- To ensure NIRF ranking within 100
- To Improve the research activities through quality paper publications, patents and consultancy work.
- To Improve the industry institute interactions by establishing Centre of Excellence in each department to bridge the gap between academia and industry
- To ensure 100 percent placements for all students of UG and PG programs
- To encourage and promote start ups through Entrepreneurship Development Cell