



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

NEW HORIZON COLLEGE OF ENGINEERING

**RING ROAD, MARATHAHALLI, BANGALORE - 560103
560103**

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

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

April 2021

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

New Horizon College of Engineering is an Autonomous college affiliated to Visvesvaraya Technological University (VTU), approved by the All India Council for Technical Education (AICTE) & University Grants Commission (UGC). It is accredited by NAAC with 'A' grade & National Board of Accreditation (NBA). New Horizon College of Engineering is located in the heart of the IT capital of India, Bangalore. The college campus is situated in the IT corridor of Bangalore surrounded by MNCs and IT giants such as Intel, Accenture, Capgemini, ARM, Symphony, Wipro, Nokia, JP Morgan and Cisco to name a few.

NHCE has a scenic and serene campus that provides an environment which is conducive for personal and intellectual growth. The infrastructure acts as a facilitator for the effective delivery of the curriculum. NHCE boasts of state-of-the-art facilities for its students.

They are given utmost encouragement in their areas of interest by providing hi-tech facilities backed by faculty support. The institute places highest priority on innovative programs that include both traditional classroom theory and professional skills training. There is a strong impetus on overall personality development of the students with emphasis on soft skills.

Students are supported through mentoring and counseling systems. The management offers scholarships to meritorious students. At NHCE, we understand and respect our role as educators and from the moment a student walks into the campus, he/she is well guided to know his/her strengths and choose an area of functional specialization. This enables students to concentrate their efforts and energies to gain the competitive edge.

QUALITY POLICY

- To provide educational services of the highest quality both curricular and co-curricular to enable students integrate skills and serve the industry and society equally well at global level.

VALUES

- Academic Freedom
- Integrity
- Inclusiveness
- Innovation
- Professionalism
- Social Responsibility

Vision

- To emerge as an institute of eminence in the fields of engineering, technology and management in serving the industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

Mission

- To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a culture of research and innovation among faculty members and students.
- To encourage long-term interaction between the academia and industry through their involvement in the design of curriculum and its hands-on implementation.
- To strengthen and mould students in professional, ethical, social and environmental dimensions by encouraging participation in co-curricular and extracurricular activities.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- NHCE has a scenic and serene campus that provides an environment which is conducive for personal and intellectual growth. The infrastructure acts as a facilitator for the effective delivery of the curriculum. NHCE boasts of state-of-the-art facilities for its students.
 - The college campus is situated in the IT corridor of Bangalore surrounded by MNCs and IT giants such as Intel, Accenture, Capgemini, ARM, Symphony, Wipro, Nokia, JP Morgan and Cisco to name a few.
 - Good Infrastructure with modern hi-tech seminar halls, auditorium, modern laboratories with latest equipment, hostel accommodation, banking facility, etc.
 - The 24 hours library with well-equipped Learning Resource center with large collection of books, resources and periodicals.
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- New Horizon College of Engineering consistently ranked by NIRF - 99 during 2018 and 106 by 2019 and it has been Ranked 114 in 2020 amongst the Top Engineering Colleges across India, as per the National Institutional Ranking Framework (NIRF 2020) Rankings, announced by MHRD, Govt. of India.
 - NHCE is ranked as “PLATINUM INSTITUTION” by AICTE – CII Survey of Industry-Linked Technical Institutes 2020.
 - NHCE has earned global recognition and honor: Sensible/Novel Interventions of R&D Team of NHCE Globally.
 - NHCE has earned recognitions and honor: Special Stamps on NHCE CanSat and Golden Jubilee of NHEI.
 - New Horizon College of Engineering is NBA ACCREDITED in all its courses.
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- Highly qualified, experienced and competent faculty with Number of doctorates from premier institutions
 - New Horizon College of Engineering has been awarded for filing highest number of patents
 - Excellent contribution by faculty and students related to research publications, Consultancy/Industry Projects and patents
 - Sound financial position of the trust managing the Institute. Transparent and good Governance in academics and administration
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- NHCE follows Outcome Based Education. The curriculum design, pedagogy and assessment are given highest priority. The Institute has put efforts in encouraging innovation and has adopted best practices/process in teaching learning processes.
 - The Institution has Industry sponsored labs (SCHNEIDER ELECTRIC AND THE FRENCH

MINISTRY OF NATIONAL EDUCATION,SAP Next Gen Lab,VMWARE IT ACADEMY,HP industry lab,CISCO NETWORKING ACADEMY,Quest global,Robotic Process Automation,IMB Open Power,Capgemini)

- NHCE, as a mentor Institution Under AICTE Margadharsan Scheme
 - Strong alumni network from 2001 batch onwards
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Institutional Weakness

- Has to improve the Commercialisation of patents
 - Has to improve the higher studies students since most of the students are placed in IT field
 - Has to improve the number of student entrepreneurs
 - has to motivate for competitive exams like Gate, Tofel, Ielts etc
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Institutional Opportunity

- Study Abroad Program
 - Industry Sponsored Laboratories
 - Being a start-up hub for engineering graduates
 - Exploring the opportunity to become a private University
 - International Trip every year
 - mentor for 50 Institutions under AICTE margadharsan scheme.
 - Improve peer reviewed journal publication (Scopus, citation index, impact factor, h-index)
 - Explore the possibility of commercialization of patents Engaging adjunct faculty from industry across all domains Increased need towards offering cross-disciplinary and humanities related programs
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Institutional Challenge

Challenges to be continued in the areas of

- Innovation
 - Professionalism
 - Social Responsibility
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1.3 CRITERIA WISE SUMMARY

Curricular Aspects

- NHCE is an autonomous institute affiliated to VTU. Hence the syllabus/curriculum framed by the each Department. The curriculum is framed and reviewed every year by the board of studies comprising of chairman, external academicians, industry experts and internal senior faculty members of various domains.
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The Curriculum is designed to ensure that at the end of the course the students can attain the required domain knowledge, skills, employability, and attitude. The factors considered for design of curriculum are:

- Model curriculum prescribed by AICTE & VTU
 - The Program Specific Criteria of professional bodies
 - Industry experts and alumni Suggestions
 - Syllabus for various competitive exams like GATE, UPSC, IES etc
 - Syllabus of Indian and International Universities
 - Recent technological developments in the domain to achieve national and global requirements
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PROCESS FOR CURRICULUM DESIGN:

- The scheme for the academic year is designed based on the credit distribution, number of core and elective courses, competency level of students and placement requirement.
 - The next step is the process of defining the Course Outcomes (COs) for every course and the mapping with the POs as defined by NBA and the PSOs as defined by the program.
 - It is ensured that the strength of the CO-PO mapping, the strength of the CO-PSO mapping all constitute an effective curriculum design.
 - An effective implementation of this OBE ensures that our graduating engineers have all the 12- POs defined by NBA, and hence can compete on a global platform, and expected global attributes.
 - The initial version of the curriculum is prepared by having the above design criteria, through discussions with stakeholders.
 - The curriculum is then placed for discussion/approval by the department level body: DAB (Department Advisory Board) and BOS (Board of Studies) constituted as per prevailing norms, and has industry, academic experts in addition to faculty as members.
 - The curriculum is then placed for approval during the AC. Curriculum is finally evolved (after incorporating suggestions by AC if any).
 - The academic autonomy of the Institution provides the opportunity to frequently revise the curriculum based on needs and suggestions of various stake holders.
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Teaching-learning and Evaluation

Learning is brought about through teaching, teaching process is the arrangement of environment within which the students can interact and study how to learn. The process of teaching learning aims at transmission of knowledge, imparting skills and formation of attitudes, values and behaviour. The process followed to improve the quality of teaching and learning in the NHCE is described below

To strengthen the teaching-learning process, following initiatives have been taken:

1. Adherence to Academic Calendar
 1. Preparation of academic action plans
2. Pedagogical Initiatives - Content Delivery (method of instruction)
 1. Digital library
 2. Contineo
 3. Course Handouts
 4. Project Based Learning
3. Methodologies to support weak students and encourage bright Students
 1. Mentoring System
 2. Identification of Weak Students / Fast Learners
 3. Action Taken
4. Quality of Class Room Teaching
5. Conduct of Experiments
6. Continuous Assessment in the laboratory
7. Student Feedback and action taken

CURRICULUM ENRICHMENT

- Professional Skill Courses
- Personality Development Courses
- Communication Skill Development
- Training Through Industry experts @ Industry Sponsored Labs
- Language Learning Centre
- Industrial visits
- In-plant Training In Industrial Sector
- Visit to domain related (Engineering/Science) Exhibitions
- Conducting Hands on Training Workshops
- Conference and Symposia
- Paper Presentation by Faculty
- Paper Presentation by Students
- Projects on latest technologies funded by various sources
- 46 Student Clubs and Associations
- International Industrial Visits
- MOOCs – NPTEL, SWAYAM, EDeX and Saylor

Research, Innovations and Extension

- To make the NHCE a worthy knowledge centre by developing research and extension activities in association with professional bodies/industries/research establishments.
- To create awareness among faculty members and students about the availability and access to research grants, funding formats etc and appropriately hand hold them to get such funds/grants.
- To development close collaboration with industry through exchange of personnel and undertaking consultancy projects.

- To improve a strong collaboration links with other academic and research institutions in the country and abroad.
- To sensitize/motivate the faculty members and students through structured training and inculcating the knowledge of theory of inventive problem solving in such way to adopt creative process of problem solving.
- To prepare the students in attaining a comprehensive knowledge In order to face the global competition.
- To ensure the participation of students in various R&D or Design Competitions/Awards within India and Abroad.
- To create an environment for effective teaching-learning by encouraging the students and faculty to nurture the curiosity and scientific and research temper.
- To assist the process of Induction of highly qualified, talented, competent & motivated faculty and training & dedicated supporting the administrative staff.
- Establishment of excellent academic research support facilities (laboratory, library, Internet, etc.).
- Provide opportunities for continuous updating the knowledge of faculty through faculty interventions/exchanges from premier institutions and industries/R&D Labs.
- Establishment of procedures and methodologies for regular monitoring and control of quality of all academic programs.
- Reforms in regulations and curriculum with greater flexibility to students.
- Have strong linkage with industries/Professional Bodies.
- Technology up-gradation, development and transfer.
- Active participation of alumni in resource generation and planning and development.
- Organizing and participation of staff and students in in-house and outside training programs, seminars, conferences, workshops on continuous basis.
- Increase research and consultancy activity with options for incentives and encouragement to motivate staff and students to actively involved in research activities in collaboration with industry and R&D Centers.
- Increase the number of continuing education programs/MDPs for Industries.
- Exchange of faculty and working personnel from industry.
- Increase Institute-Industry interaction/Collaboration.
- Entrepreneurship Development/Technology Business Incubation/startups.
- Increased interaction with educational and other research establishments/ institutes.

Infrastructure and Learning Resources

The College Campus spreads over 11.32 acres is set amidst halcyon surroundings, enveloped by fresh air and greenery on the outer ring road of Bangalore, away from the hustle and bustle of the city.

- The Infrastructure consist of
- ATM – Indian Bank
- Outdoor Gym
- Indoor Gym
- Cafeteria/Canteen/Food Courts
- Courier/DTP
- Sports and Games
- Indoor and Outdoor Stadium
- Power Backup

- Recreation Centre
- First Aid Clinic
- 24 Hrs Ambulance Facility
- Auditorium (800 Capacity)
- Smart Class room
- 4 Seminar Halls (200 Capacity each)
- Conference Rooms
- Board Room
- RO Water Plants with Cooler
- Transport (20 Buses)
- Stationery & Reprography
- Safety Norms & Checks
- Sewage treatment plant
- Rain water harvesting
- The website provides access to official information

LIBRARY & INFORMATION CENTER

FACILITIES

- Library spread over Two floors
- Library is open 24hrs/365 days
- 605 seating capacity
- Stack Area
- Reference Section
- Reading Hall
- State of Art Digital Library
- Periodicals, Newspapers, and Magazine section
- Video Conference Room
- Books and stationary shop
- Wifi enabled
- NHCE has 10 Department Libraries

COLLECTIONS

- 47195 Volumes
- 10119 Titles
- 29909 + e-Books
- 7361+e-Journals
- Subscription of Elsevier, Taylor & Francis, Springer Nature, Emerald
- K-nimbus Digital Library Platform
- Institution Repository(D-space)
- National Digital Library
- National Knowledge Network
- Gnana Sangama Portal
- Membership of VTU Consortium, Delnet, NDLC

IT SERVICES

- The institute has 1600 COMPUTERS, 27 smartboards and INTERNET of 200 Mbps (1:1) -City Online & Jio (Unlimited). Also WIFI FACILITY 200 Mbps Wi-Fi facility available in all the departments and hostels as well
 - Separate Hostels for Men and Women on the campus with all necessary facilities is provided for study and recreation.
 - The Institution has excellent Placement and Training Centre
 - Adequate fire fighting facilities, telephone, extensive parking space are some of the other facilities provided.
 - Adequate budgetary provision has ensured the proper maintenance of infrastructure and academic.
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Student Support and Progression

- The student representatives are invited to the BOS and Academic Council Meetings. The student are also part of IQAC, Anti ragging committee, GRC, BoS, Women's Cell etc
- 46 students clubs owned and managed by students under faculty guidance.
- Student Mentoring by faculty Member : Academic Guidance, Professional Guidance, Career Guidance.
- Student Counseling by well qualified team of six Professional counsellors.
- Cash Prizes are awarded to the outstanding students
- Free-ship is awarded to the topper of the College/Students with Critical diseases
- Cash Awards for the best project
- Gold Medal is awarded to the best outgoing student
- 50% free-ship awarded to the topper in each branch
- Students from SC/ST/OBC and economically weaker sections get access to additional book facility from the library.
- Assistance to SC/ST/OBC Students to get Scholarship from Govt. of India
- Centre for life skill and life long learning.
- Students with physical disabilities are given additional time & necessary assistance during examinations
- Overseas students are given special mess catering
- Medical assistance is provided to the students through the college health center
- Medical Insurance is provided for Hostelites.
- Students are encouraged to participate in various workshops, competitions (co-curricular & extra-curricular) and necessary training and assistance is also provided
- Coaching classes are organized for competitive exams like GATE, GMAT etc.
- A well equipped English language lab and Computer literacy Lab is accessible by all
- Personality Development Programmes /Soft Skills Development Programmes for B.E, MBA & M.Tech Students
- Leadership development programmes are organized for the students
- Support for slow learners is offered through additional coaching classes
- Bridge courses are organized before starting the first semester classes.
- Publication of students newsletter from various departments
- Students have the facility of accessing Entrepreneurship Development Cell to get the right support in understanding the feasibility of their business ideas

- Students avail the facility of incubation center for developing their business ideas
 - A well qualified and well equipped Physical Education Department approachable and accessible by all students
 - Special dietary requirement is taken care for the students participating in sports activities.
 - Alumni Association organizes Alumni Meet 15th August every year.
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Governance, Leadership and Management

The NHCE has National Advisory Board, Governing Council, Academic Council, Various Statutory committees and Steering Committee for carrying out the various functions and responsibilities in pursuit of excellence.

- To ensure observance and compliance of instructions issued by AICTE, Government of Karnataka and affiliating University.
- To ensure that the building, land, furniture and facilities are not being used for any other purpose (such as holding political meetings, communal meetings), except for running AICTE approved courses in the institute.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.
- Create peaceful and favorable atmosphere for study free from ragging.

A number of committees are present in the college that are formed taking into the considerations of the students and faculties. There is diversification that ensures that the committees address any issues faced by the stakeholders and also aims for the improvements under the purview of the respective committees. The various committees and their in-charges are as follows:

- Accreditation Committee
- Admission Committee
- Alumni Committee
- Anti- Ragging Committee
- College Internal Complaints Committee (CICC)
- Co- Curricular Committee
- College Internal Grievance Redressal Committee
- Community Development Center (Public Welfare Committee)
- Counseling Committee
- Cultural Committee
- Curriculum Development Committee
- Disciplinary Committee
- Energy Conversion Audit Committee
- Equal Opportunities Cell
- Examination Committee
- Finance Committee
- Girls Hostel Development & Welfare Committee
- Hostel (Boys) Development & Welfare Committee
- Infrastructure Development Committee
- In-Plant Training/ Industrial/ Career Guidance/ Placement Committee

- Instrumentation Cell
- Internal Quality Assurance Cell
- Library Committee
- NCC Committee
- News Letter Committee
- NSS Committee
- Physical Education & Sports Committee
- Professional Societies
- Public Relations & Marketing Committee
- Purchase Committee
- Recruitment Cell
- Research & Development Committee
- SC/ST Welfare Cell
- Software / Hardware Training Committee
- Staff Welfare Committee
- Student Mentoring Committee
- Students Grievances Redressal Committee
- Universal Human Values Committee
- Value Added Programs Committee
- Women Empowerment Committee

Institutional Values and Best Practices

The best practices at NHCE makes institution a respectable and most sought after Engineering college which provides the best amalgamation of Innovation, entrepreneurship development, skill up gradation, passion and aptitude along with sound theoretical subject knowledge which in turn makes our students pursue their passion and think beyond a job. The institution strives to uphold human values and adopts good practices to maintain the integrity of its stakeholders

CURRICULAR & CO-CURRICULAR

- Focus on Understanding the concepts than on Remembering
- Student centric pedagogy and innovation
- Customized mentoring and PTM, coaching classes
- Collaborative learning opportunities with industries through Industry sponsored labs, IVs Internships etc
- Alumnus Interaction and Guest Talks
- Marking of globally relevant events

RESEARCH AND CONSULTANCY

- Laboratory aided teaching modes
- Assignments /models / Subject related exhibitions/events
- Students' attempts to write project proposals
- Faculty members involvement in research and consultancy for revenue generation

- Mini Project works and Internship opportunities

OUTCOMES

- Excellent Results and Ranks
 - Appreciation letters for student participations and parents
 - Placement and Higher Studies
 - Students Club activities - Awareness drives
 - Research publications, patents commercialisation and Presentations by students
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NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	NEW HORIZON COLLEGE OF ENGINEERING
Address	Ring Road, Marathahalli, Bangalore - 560103
City	Bengaluru
State	Karnataka
Pin	560103
Website	http://newhorizonindia.edu/nhengineering/

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Manjunatha	070-66297777	9901916000	-	principal@newhorizonindia.edu
IQAC / CIQA coordinator	Anitha Rai	080-66297777	9731034730	-	anithasrai@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	Yes Minority document.pdf
If Yes, Specify minority status	
Religious	Hindu
Linguistic	Sindhi
Any Other	

Establishment Details	
Date of Establishment, Prior to the Grant of 'Autonomy'	01-01-2001
Date of grant of 'Autonomy' to the College by UGC	28-02-2016

University to which the college is affiliated

State	University name	Document
Karnataka	Visvesvaraya Technological University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	22-06-2016	View Document
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE, NCTE, MCI, DCI, PCI, RCI etc (other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day, Month and year (dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	09-06-2020	12	Extension of Approval

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	The confederation of Indian Industry CII
Date of recognition	10-12-2020

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Ring Road, Marathahalli, Bangalore - 560103	Urban	11.08	47752.9

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Mechanical Engineering	48	Physics Maths	English	180	123
UG	BE,Automobile Engineering	48	Physics Maths	English	60	35
UG	BE,Computer Science And Engineering	48	Physics Maths Computer science	English	240	240
UG	BE,Information Science Engineering	48	Physics Maths Computer Science	English	180	180
UG	BE,Civil Engineering	48	Physics Maths	English	120	94

UG	BE,Electrical And Electronics Engineering	48	Physics Maths	English	120	120
UG	BE,Electronics And Communication Engineering	48	Physics Maths Electronics	English	180	180
UG	BE,Artificial Intelligence And Machine Learning	48	Physics Maths Computer Science	English	120	120
UG	BE,Computer Engineering	48	Physics Maths Computer Science	English	60	60
PG	Mtech,Mechanical Engineering	24	B.E. Mechanical Engineering B.E. Automobile Engineering	English	18	6
PG	Mtech,Computer Science And Engineering	24	UG Specialization in B.E.	English	18	10
PG	Mtech,Information Science Engineering	24	UG Specialization in B.E.	English	18	5
PG	MBA,Mba	24	Any UG	English	180	180
PG	MCA,Mca	24	Any UG	English	120	120
Doctoral (Ph.D)	PhD or DPhil, Mechanical Engineering	60	PG Specialization in B.E.	English	4	2
Doctoral (Ph.D)	PhD or DPhil, Automobile Engineering	60	PG Specialization in B.E.	English	2	1
Doctoral	PhD or DPhil	60	PG	English	4	3

(Ph.D)	I,Computer Science And Engineering		Specialization in B.E.			
Doctoral (Ph.D)	PhD or DPhil, Information Science Engineering	60	PG Specialization in B.E.	English	4	4
Doctoral (Ph.D)	PhD or DPhil, Civil Engineering	60	PG Specialization in B.E.	English	1	0
Doctoral (Ph.D)	PhD or DPhil, Electrical And Electronics Engineering	60	PG Specialization in B.E.	English	1	0
Doctoral (Ph.D)	PhD or DPhil, Electronics And Communication Engineering	60	PG Specialization in B.E.	English	2	1
Doctoral (Ph.D)	PhD or DPhil, Mba	60	PD Specialization in B.E.	English	3	2
Doctoral (Ph.D)	PhD or DPhil, Mca	60	PG Specialization in B.E.	English	4	3
Doctoral (Ph.D)	PhD or DPhil, Basic Sciences	60	PG Specialization in B.E.	English	2	2
Doctoral (Ph.D)	PhD or DPhil, Basic Sciences	60	PG Specialization in B.E.	English	2	1
Doctoral (Ph.D)	PhD or DPhil, Basic Sciences	60	PG Specialization in B.E.	English	1	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	32				59				182			
Recruited	22	10	0	32	32	27	0	59	89	92	0	181
Yet to Recruit	0				0				1			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				6			
Recruited	0	0	0	0	0	0	0	0	4	2	0	6
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				113
Recruited	30	83	0	113
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				37
Recruited	10	27	0	37
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				63
Recruited	53	10	0	63
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				12
Recruited	8	4	0	12
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	1	0	0	0	0	0	0	1	0	2
Ph.D.	19	10	0	27	30	0	44	34	0	164
M.Phil.	0	0	0	0	1	0	2	4	0	7
PG	1	1	0	0	1	0	48	55	0	106

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	30	4	0	34

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	558	316	0	1	875
	Female	242	88	0	0	330
	Others	0	0	0	0	0
PG	Male	140	54	0	0	194
	Female	103	24	0	0	127
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	6	1	0	0	7
	Female	10	2	0	0	12
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	56	65	61	69
	Female	31	25	31	26
	Others	0	0	0	0
ST	Male	17	11	12	13
	Female	4	7	6	7
	Others	0	0	0	0
OBC	Male	367	193	255	287
	Female	125	94	102	114
	Others	0	0	0	0
General	Male	593	810	658	653
	Female	236	250	240	214
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		1429	1455	1365	1383

2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Artificial Intelligence And Machine Learning	View Document
Automobile Engineering	View Document
Basic Sciences	View Document
Civil Engineering	View Document
Computer Engineering	View Document
Computer Science And Engineering	View Document
Electrical And Electronics Engineering	View Document
Electronics And Communication Engineering	View Document
Information Science Engineering	View Document
Mba	View Document
Mca	View Document
Mechanical Engineering	View Document

Extended Profile

1 Program

1.1

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
12	11	14	17	18
File Description		Document		
Institutional data in prescribed format		View Document		

1.2

Number of departments offering academic programmes

Response: 12

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
5304	5463	5396	5608	5334
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

Number of outgoing / final year students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1449	1484	1191	1370	1216
File Description		Document		
Institutional data in prescribed format		View Document		

2.3

Number of students appeared in the examination conducted by the Institution, year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
5304	5463	5396	5608	5334
File Description		Document		
Institutional data in prescribed format		View Document		

2.4

Number of revaluation applications year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
179	805	632	349	30

3 Teachers**3.1**

Number of courses in all programs year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
588	580	406	282	171
File Description		Document		
Institutional data in prescribed format		View Document		

3.2

Number of full time teachers year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
273	276	283	306	306
File Description		Document		
Institutional data in prescribed format		View Document		

3.3

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
285	281	317	362	358
File Description		Document		
Institutional data in prescribed format		View Document		

4 Institution**4.1****Number of eligible applications received for admissions to all the programs year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1469	1547	1449	1427	1589
File Description		Document		
Institutional data in prescribed format		View Document		

4.2**Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
777	709	733	750	767
File Description		Document		
Institutional data in prescribed format		View Document		

4.3**Total number of classrooms and seminar halls****Response: 110****4.4****Total number of computers in the campus for academic purpose****Response: 1478**

4.5

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
1699.76	1849.91	1812.54	1777.68	1668.29

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curriculum Design and Development

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution.

Response:

Factors for Curriculum Design:

New Horizon College of Engineering is an autonomous institute affiliated to Visvesvaraya Technological University (VTU), Belagavi. Hence the syllabus/curriculum framed by the each Department. The curriculum contains core, humanities, social science, and elective courses. The curriculum is framed and reviewed every year by the board of studies comprising of chairman, external academicians, industry experts and internal senior faculty members of various domains.

The Curriculum is designed to ensure that at the end of the course the students can attain the required domain knowledge, skills, employability, and attitude. The factors considered for design of curriculum are:

- Model curriculum prescribed by AICTE
- VTU curriculum
- The Program Specific Criteria of professional bodies
- Industry experts and alumni Suggestions
- Syllabus for various competitive exams like GATE, UPSC, IES etc
- Syllabus of Indian and International Universities
- Recent technological developments in the domain to achieve national and global requirements

Addressing POs through the Curriculum:

Step1:

The scheme for the academic year is designed based on the credit distribution, number of core and elective courses, competency level of students and placement requirement.

Step2:

The next step is the process of defining the Course Outcomes (COs) for every course and the mapping with the Program Outcomes (POs) as defined by NBA and the Program Specific Outcomes (PSOs) as defined by the program.

It is ensured that the CO-PO mapping of the various core-courses of the curriculum is to address every PO. Hence, the Curriculum, the courses of the curriculum, the COs of the various courses, the assessment tools to measure the COs, the strength of the CO-PO mapping, the strength of the CO-PSO mapping all constitute an effective curriculum design.

An effective implementation of this Outcome Based Education (OBE) ensures that our graduating engineers have all the 12 POs defined by NBA, and hence can compete on a global platform, and have expected global attributes.

Process for Curriculum Design:

The initial version of the curriculum is prepared by having the above design criteria, through discussions with stakeholders.

The curriculum is then placed for discussion/approval by the department level body: DAB (Department Advisory Board) and BOS (Board of Studies) constituted as per prevailing norms, and has industry, academic experts in addition to faculty as members.

The curriculum (suitably revised based on suggestions by DAB/BOS) is then placed for approval during the Academic Council (AC). Curriculum is finally evolved (after incorporating suggestions by AC if any).

The academic autonomy of the Institution provides the opportunity to frequently revise the curriculum based on needs and suggestions of various stake holders.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years.

Response: 100

1.1.2.1 Number of all Programmes offered by the institution during the last five years.

Response: 14

1.1.2.2 How many Programmes were revised out of total number of Programmes offered during the last five years

Response: 14

File Description	Document
Minutes of relevant Academic Council/BOS meeting	View Document
Details of program syllabus revision in last 5 years(Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

Response: 16.18

1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years..

2019-20	2018-19	2017-18	2016-17	2015-16
74	72	72	45	38

File Description	Document
MoU's with relevant organizations for these courses, if any	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Average percentage of courses having focus on employability/ entrepreneurship(Data Template)	View Document
Link for Additional Information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.

Response: 10.85

1.2.1.1 How many new courses are introduced within the last five years

Response: 220

1.2.1.2 Number of courses offered by the institution across all programmes during the last five years.

Response: 2027

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Institutional data in prescribed format	View Document
Link for Additional Information	View Document

1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).

Response: 100

1.2.2.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 12

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.3 Curriculum Enrichment**1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum**

Response:

Courses to address Environment and Sustainability:

The curriculum includes various courses that address Environment, concern for environment, awareness on hazards for environment. The second year B.E. program includes an institute core course on 'Environmental studies' (based on the AICTE mandatory guideline). In addition to the above institute core courses, individual programs have included additional courses to address Environment and Sustainability such as Non-conventional Energy Sources, Automotive Emissions and Control, Renewable energy, Solar Electric Systems, Solar Photovoltaic Fundamentals, Technologies and Applications, Hybrid electric vehicle etc.

In addition to curriculum, the program conducts regular environment awareness through posters, models, PPT presentations, talks and seminar through GREEN ENERGY CLUB. Many projects are undertaken by students relating to environmental and sustainability issues like water pollution, sewage treatment, environment protection and use of natural resources.

Courses to address Human Values and Professional Ethics:

The curriculum includes various courses to address Professional Ethics and Human Values. The course on 'Constitution of India & Professional Ethics' is included in the first year to understand human values and professional ethics. The curriculum also includes course on 'Professional Communication' and 'Essential English' to develop human values and communication skills. In addition to the above courses, the program has included additional courses like 'Economics for Engineers' and 'Life Skills for Engineers'. To communicate and to understand the regional language, the program offers the course 'Aadalitha/ Samskrithika Kannada/ Vyavaharika Balake Kannada' for the second year students.

In the present curricular structure, specific course to address gender is not included. However, the campus ambience, the work culture provide opportunity for students to demonstrate professional behaviour. The campus is proud to have about 70% boys and 40% girls students. The Women Cell and the Anti-sexual harassment committee continuously offer various programs like Debate, seminar, panel discussions on gender sensitization. The impact of these programs is evident through the confidence portrayed by all students irrespective of their gender.

File Description	Document
Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.

Response: 119

1.3.2.1 How many new value-added courses are added within the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
31	26	22	19	21

File Description	Document
List of value added courses (Data Template)	View Document
Brochure or any other document relating to value added courses	View Document
Link for Additional Information	View Document

1.3.3 Average Percentage of students enrolled in the courses under 1.3.2 above.**Response:** 17.75**1.3.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
1332	1025	1019	688	731

File Description	Document
List of students enrolled	View Document
Any additional information	View Document
Link for Additional Information	View Document

1.3.4 Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)**Response:** 37.67**1.3.4.1 Number of students undertaking field projects / internships / student projects**

Response: 1998

File Description	Document
List of programs and number of students undertaking field projects / internships / student projects (Data Template)	View Document
Link for Additional Information	View Document

1.4 Feedback System

1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni

Response: A. All 4 of the above

File Description	Document
Any additional information	View Document
Action taken report of the Institution on feedback report as minuted by the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document

1.4.2 The feedback system of the Institution comprises of the following :

Response: A. Feedback collected, analysed and action taken and report made available on website

File Description	Document
Any additional information	View Document
URL for stakeholder feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 95.72

2.1.1.1 Number of students admitted year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1429	1455	1365	1383	1529

2.1.1.2 Number of sanctioned seats year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1554	1416	1464	1518	1536

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 66.13

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
600	395	467	516	500

File Description	Document
Institutional data in prescribed format	View Document

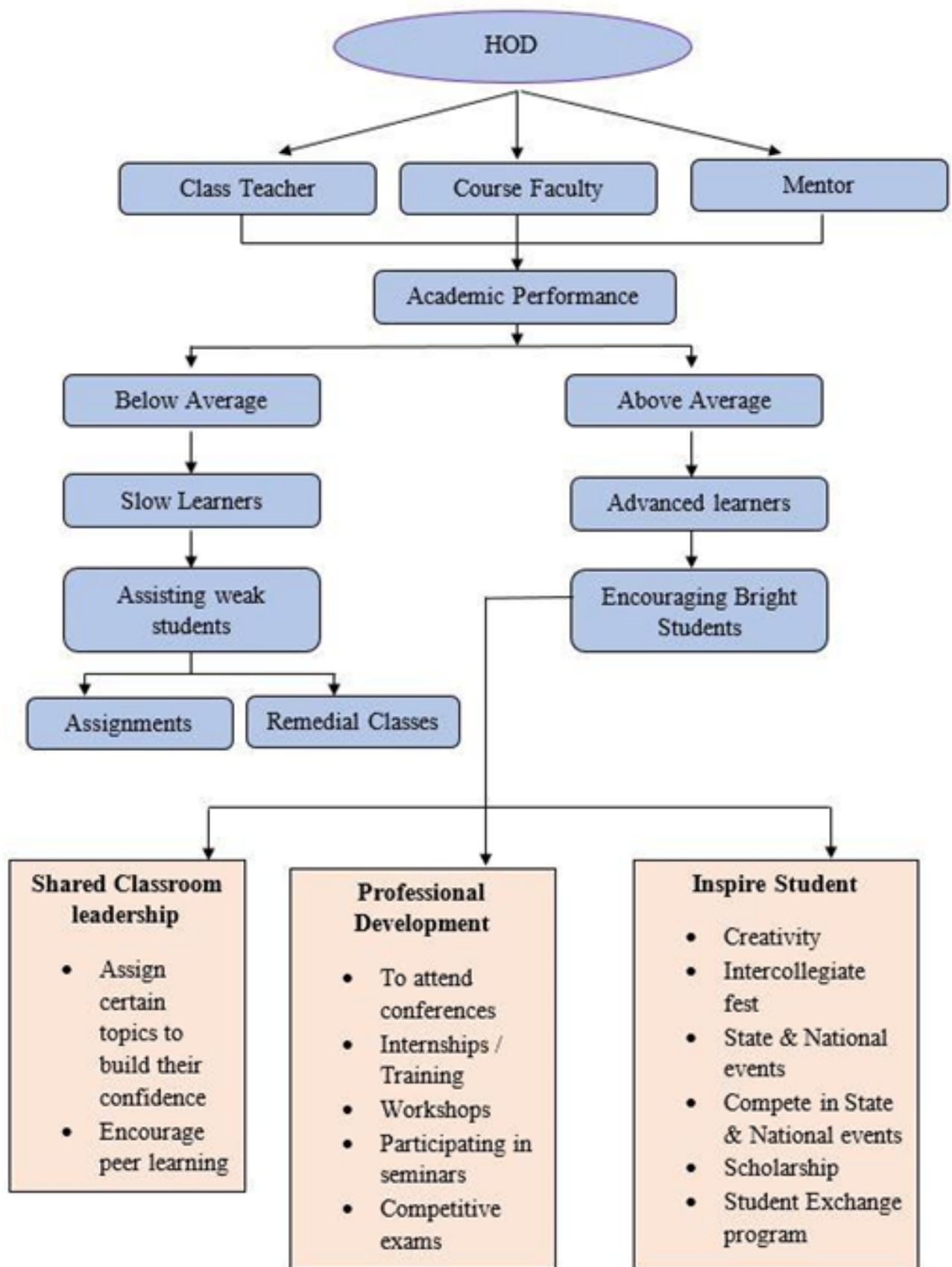
2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

Methodologies to support slow learners and encourage Advanced Learners

NAAC



1. Advanced Learners (Bright Students):

Bright students are found on the basis of their class performances, involvement in classroom, internal assessments and grades. The following facilities are there for bright students to apply their learning on various platforms:

- Involve fast learners for peer tutoring the slow learners
- Students are motivated to take up value added courses, MOOC and e-learning courses.
- Students are given opportunity to take up study-abroad program for one semester
- Encourage students to do open ended or challenging lab based experiments
- Students are motivated to take up competitive exams like GATE, GRE, TOEFL, IELTS, CAT, PG CET etc.
- Students are encouraged to become members of professional bodies like ISTE / IEEE / MTS and organize technical events.
- Bright and diligent students are motivated and inspired to get top ranks in their SEE and in competitive examinations through mentoring.
- The bright students are encouraged to participate in symposia, workshops and seminars at National and International levels.
- They are provided with the guidance about technical paper writing, prototype building and patent filing.
- Financial support is given for bright students if needed for attending conferences/ workshops etc.

2. Slow Learners

The slow learners are identified from their participation in classroom discussion, performance in the assessment tests (less than 15 out of 25), performance during the viva-voce, University result analysis, etc.

Actions taken:

- Department arranges remedial lectures for slow learners.
- Students are encouraged to conduct open ended lab based experiments
- The students are encouraged to participate in symposia, workshops and seminars at National and International levels.
- Additional question bank is given to students to improve their learning.
- Mentor informs the parents regarding improvement in the performance of their ward on regular basis. Mentors are facilitated to understand personal and professional difficulties of students and it is resolved.
- Participative and progressive slow learners are given chance to improve team work to motivate and appreciate their efforts.
- Problem solving sessions are done and make sure that they understand it & exercise problems are solved with.

Impact Observed on Slow Learners

It is observed that the academic and overall performance of students is improved.

3.Orientation Programme: Every year the institution organises Student's Orientation Programme for the newly enrolled 1st year students. The annual information booklet is provided to all newly admitted students at the beginning of the academic session. The booklet provides details about the faculty

coordinators and their responsibilities as well as information about anti-ragging norms, Code of Conduct, events for the forthcoming year, staff and their functions etc. Apart from highlighting the various aspects of the institution, the programme also orients the students of the specific attributes that are expected of them.

4.Bridge Courses: For the students joining under the lateral entry system (diploma holders joining the second year engineering course), the college offers special coaching, bridge programmes and peer guidance.

5.Special Coaching Classes: are conducted in the evening with an aim to improve the academic performance of the slow learners and students who participate in sports and other activities.

2.2.2 Student - Full time teacher ratio (Data for the latest completed academic year)

Response: 19.43

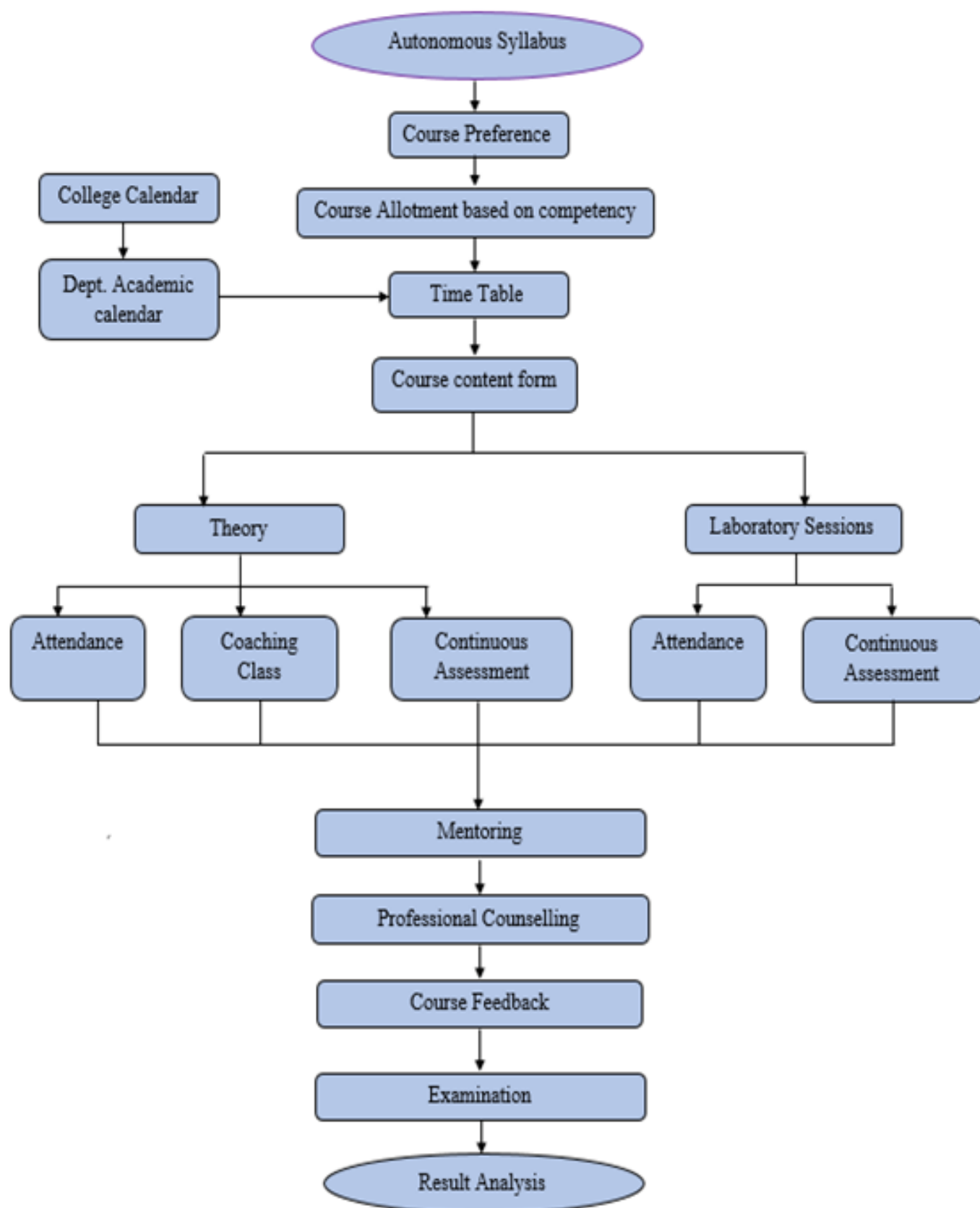
File Description	Document
Link for Additional Information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

Learning is brought about through teaching, teaching process is the arrangement of environment within which the students can interact and study how to learn. The process of teaching learning aims at transmission of knowledge, imparting skills and formation of attitudes, values and behavior. The process followed to improve the quality of teaching and learning in the NHCE is described in Figure below



To strengthen the teaching-learning process, following initiatives have been taken:

1. Adherence to Academic Calendar
 1. Preparation of academic action plans
2. Pedagogical Initiatives - Content Delivery (method of instruction)

- 1.Digital library
- 2.Contineo
- 3.Course Handouts
- 4.Project Based Learning
- 3.Methodologies to support weak students and encourage bright Students
 - 1.Mentoring System
 - 2.Identification of Weak Students / Fast Learners
 - 3.Action Taken
- 4.Quality of Class Room Teaching
- 5.Conduct of Experiments
- 6.Continuous Assessment in the laboratory
- 7.Student Feedback and action taken

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.3.2 Teachers use ICT enabled tools including online resources for effective teaching and learning process.

Response:

ICT based learning: Use of Smart boards, LCD/LED projectors and provision for interactive teaching learning & High speed internet connectivity. Simulation software like Xilinx, MATLAB, CADENCE and open source software are encouraged for effective learning.

File Description	Document
Link for Additional Information	View Document
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 19.43

2.3.3.1 Number of mentors

Response: 273	
File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.3.4 Preparation and adherence of Academic Calendar and Teaching plans by the institution

Response:

Academic calendar is prepared well in advance for each semester of every academic year. The academic calendar is prepared as per VTU guidelines in consideration with the Public holidays listed by parent University (VTU). Every academic year includes two regular semesters (odd, even) for duration of 16 weeks and a supplementary semester of 7 weeks. The academic calendar consists of reopening day, continuous assessment test dates, assignment submission dates, last working day, end semester examination tentative schedule etc for each semester. With prior consultation of the experts dates of guest lecture, workshops and industrial visits are planned in the calendar.

The calendar is made available to the staff, students and parents through email and also published in the student management software tool (Contineo). The calendar of activities is centrally monitored by the Dean Academic and Head of the Department and it is ensured that the calendars of academic activities are strictly adhered.

Each course coordinator has to prepare a Course Content Form (CCF) with course outcomes, programme outcomes, CO-PO & CO-PSO mapping. CCF has class wise planning for teaching and also evaluation process. The Teaching plan will be uploaded in the intranet (Contineo Software) by the faculty members and the students can also view the same.

File Description	Document
Link for Additional Information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 90.66

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years(Data Template)	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality /

D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 26.44

2.4.2.1 Number of full time teachers with *Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit.* year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
105	87	66	64	55

File Description

Document

Institutional data in prescribed format (Data Template)

[View Document](#)

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 4.96

2.4.3.1 Total experience of full-time teachers

Response: 1354.5

File Description

Document

Institutional data in prescribed format

[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

Response: 6.4

2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
6	6	6	7	7

File Description	Document
Institutional data in prescribed format (Data Template)	View Document
Link for Additional Information	View Document

2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

Response: 7.32

2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
179	805	632	349	30

File Description	Document
Link for Additional Information	View Document

2.5.3 IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in Examination Management System (EMS) of the Institution

Response:

The examination for the autonomous courses is conducted by the Institute, in two stages emphasizing continuous Internal Evaluation [CIE] throughout the semester and Semester End Examination [SEE] at the end of the semester. Complete examination process is executed by the Office of the Controller of Examination in coordination with all departments.

The New Horizon College of Engineering continuously carries out reformation in its exam conduction process with the aid of sophisticated IT tools in executing examination procedures. These measures have been included in Continuous Internal Evaluation (CIE) assessments and other related evaluation process. The examination procedure is automated with Contineo Software to improve the examination management system of the institution. Contineo' is a pioneering software platform for implementation and administration of academic autonomy. Contineo executes full academic autonomy culminating in secure, confidential, accurate, efficient and auditable examinations of both the digitized answer script and conventional paper and pen variety.

Benefits of Implementing Contineo-software

- Granular tracking of academic plan
- Unified view across the lifecycle

- Exception based management
- Early warning system for key operating parameters
- Measurement of academic operating parameters
- Examinations management that is secure, confidential, accurate, efficient and auditable for both digitized and conventional paper and pen answer scripts
- Academic Statutory compliances
- Real time reporting to stakeholders

The contineo IT platform helps organizations to quickly get their autonomous processes under control and provides insightful analytics so they can focus on academic innovation and research.

Examination procedures and the use of IT tools

Semester end exam pattern is adopted in Continuous Internal Evaluations (CIE) for all the departments. Digital valuator mark entry system has been implemented for error free valuations. Teacher assessment components such as quiz, assignment, cocurricular, selfstudy, project, mini project etc have been included in the evaluation components.

List of improvements in Examination management system

- Errors are reduced and time is saved with the implementation of E-governance through IT tools in the institution via online entry of biodata, Attendance and CIE marks.
- The generation of hall tickets for SEE exam is done quickly
- The students can submit examination related applications through online mode.
- Student identity is hidden by coding the answer scripts thus any kind of malpractice is avoided.
- Photocopies of the answer scripts can be provided to the students easily.
- The answer scripts are moderated by the senior faculty member of other colleges
- Third evaluation is initiated when the difference between the valutors are greater than 15 marks .
- The results are declared online
- Online mark entries for CIE and SEE.

Process for Continuous Internal Assessment Test Question Paper Setting:

- The course co-ordinator sets the question paper for the Internal Assessment.
- The course co-ordinator ensures to frame questions based on various RBT levels and is mapped to the Course Outcomes (COs) to assess the students at various RBT levels.

Procedure for Conduction and Evaluation of Continuous Internal Assessment Test:

- The time table for the Continuous Internal Evaluation Test will be announced in the notice board one week prior to the commencement of the test.
- Department provides blue books for writing the three Continuous Internal Evaluation tests and shall be maintained by the Department for at least one year after the announcement of results and available for verification.
- The students write the test in their allotted seats as per their USNs in a test hall, under the invigilation of a faculty member.
- The scheme of valuation for the question paper is prepared by the course co-ordinator ensuring appropriate distribution of marks for fair valuation.

- The course co-ordinator values the blue books adhering to the scheme of valuation.
- The faculties after every internal assessment test they explain the solution of the questions in the class which will enable them to perform well in the final examination.
- The average of all the three internals is the final internal assessment marks.
- For any genuine reasons, if a student was unable to perform well in the given three internal assessment tests, improvement test is given to him/her.

Process to ensure questions from outcomes/learning levels:

- The course co-ordinator ensures that the Continuous Internal Evaluation questions are framed based on various RBT levels and are mapped to the COs.
- The course coordinator decides the number of questions and marks allotted for each question.
- The course coordinator submits the question paper to the BOE committee and the committee checks the quality, format, RBT level and COs compliance and suggests any changes, if required.

File Description	Document
Link for Additional Information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

- Program Outcomes (POs): It represent the knowledge, skills and attitudes the students should have at the end of a course completion of their respective engineering program.
- Course Outcomes (COs): It gives the resultant knowledge and skills the student acquires at the end of each course. It defines the cognitive processes a course provides.
- Program Specific Outcomes (PSOs): These are statements that defines outcomes of a program which make students realize the fact that the knowledge and techniques learnt in this course has direct implication for the betterment of society and its sustainability.

Program Outcomes (POs) , Program Specific Outcomes (PSOs) and course outcomes are communicated to the stake holders of the program by the following procedures.

- POs and PSOs are approved by the Department Advisory Board
- POs and PSOs are available in the each department website
- POs and PSOs are kept in prominent locations of the campus for staff, students and public view.
- POs and PSOs are displayed in Department office, Laboratories and Department library.
- POs and PSOs are communicated to employers and Alumni during the Alumni Meeting.
- POs, PSOs are printed on lab records, Lab manuals and Continuous Internal Evaluation Book
- COs are displayed in respective Laboratories.
- During the class committee meeting and faculty meeting POs and PSOs are reviewed among the students and staff members.

Course Outcomes (COs) are framed at Department advisory board meeting. Department advisory board frames course committee for each courses with course handlers along with one subject area expert. The course outcomes and their mapping with program outcomes and program specific outcomes are elaborately discussed and derived by the course committee members. If necessary, the COs are modified and reframed by the course committee members (CC). COs are communicated to the students during the introduction class itself. COs along with lesson plan are printed and issued to the students during the first class. During the discussion of the course, the outcomes of the course are also focused. During the commencement of each unit and after the completion of the unit, the course outcomes are reviewed

File Description	Document
Upload COs for all courses (exemplars from Glossary)	View Document
Any additional information	View Document

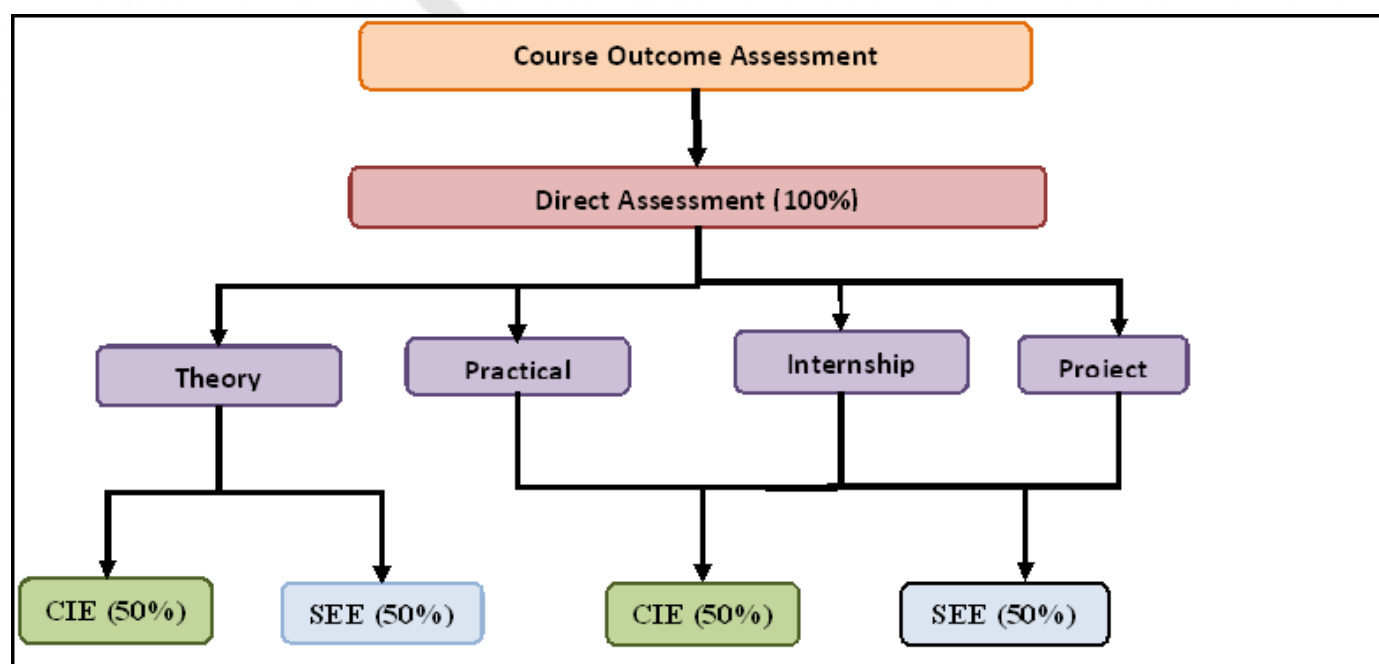
2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

PROCESS ON CO ATTAINMENT:

Attainment of CO is directly measured from the performance of students in Continuous Internal Evaluation (CIE) and Semester End Examination (SEE).

Final CO Attainment= 50% of CIE + 50% of SEE.



In Outcome Based Education, assessment is carried out by the institution to identify, collect, analyze and evaluate the data towards the achievement of course outcomes. The course outcomes are assessed based on

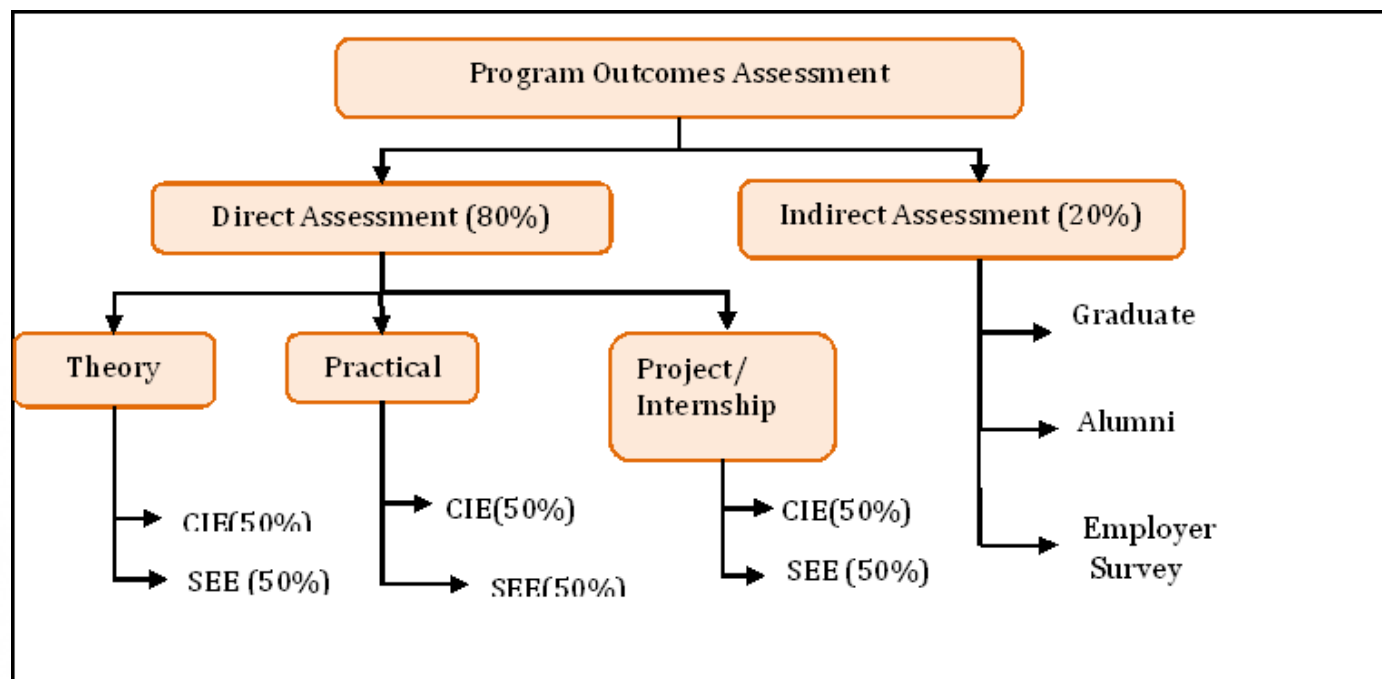
direct assessment tools. The direct method of assessment includes internal test, assignments, quizzes, self-study, laboratory practical examination, internship, project work done etc. Course outcomes are evaluated based on the performance of students in Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). CIE contributes 50% and SEE contributes 50% to the total attainment of a course outcome.

The direct assessment based on marks obtained by the individual student is then mapped with POs & PSOs through COs. For Semester End Examination, Controller of Examination will conduct the exam for 100 marks. The questions in SEE paper evenly cover all the COs of a course. The Semester End Exam marks are scaled down to 50 and then summed up with the Continuous Internal Evaluation marks for a total of 100 marks for attainment level calculations of COs.

Process of course data Collection: Course coordinators are assigned to the courses with respect to their choices and specialization. The module and course coordinator define target set for each course outcome. This target setting is based on COs distribution on assessment tools and performances of students in previous exams and also the quality of student in the respective batches. Internal questions are prepared and mapped with COs. Upon completion of every Internal Assessment (IA) Test, the course instructors enter the marks secured by the student in each IA in the student assessment software through faculty login allotted. Using the similar online portal, marks entry for other direct assessment tools are carried out. The entered marks are maintained in a common server through which COs evaluation is calculated and attainment is measured. The various assessment tools used to evaluate COs are listed in Table.1

Description	Assessment Tools	Frequency
Theory Courses	Internal Assessment (IA) Test - (1, 2 and 3)	Once in a semester
	Assignment/Quiz	Twice in a semester
	Semester End Examination	Once in a semester
Lab Courses	Continuous Internal Assessment (Conduction of Experiment, Lab observation and Record)	During every laboratory
	Internal Test (1 and 2)	Once in a semester
	Semester End Lab Examination	Once in a semester
Internship	CIE	Once in a semester
	Semester End Examination	
Project	CIE	Three reviews in respec
	Semester End Examination	Once in a semester

Attainment of Program Outcomes and Program Specific Outcomes



File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.3 Pass Percentage of students(Data for the latest completed academic year)

Response: 97.51

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 1407

2.6.3.2 Total number of final year students who appeared for the examination conducted by the Institution.

Response: 1443

File Description	Document
Upload List of Programmes and number of students passed and appeared in the final year examination(Data Template)	View Document
Link for the annual report	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.19

File Description	Document
Upload database of all currently enrolled students	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Promotion of Research and Facilities

3.1.1 The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

Response:

1. There is a clearly defined “Research Policy” by the Dean, Research who from time to time makes the necessary changes and amendments in the research policy of the college. This is strictly adopted by the department faculty and students who get involved in research. The research policy is available and the changes done are updated in the college website and implemented in total.
2. 14 Approved Research Centres under VTU for PhD/MSc (By Research) PhD/MS By Research:
Those who are interested to pursue MSc (Engineering) By Research or PhD in Engineering/Technology/MCA/Management/ Maths/Physics/Chemistry etc have the choice of contacting the respective Departments directly.
3. R&D Cell of NHCE headed by Dean-Research organizes various Research Activities
4. Every Department has a Research Coordinator
5. High Bandwidth (200mbps) Internet Connectivity & Wi-Fi Facility
6. 10% of Institution’s Budget is Allocated Towards Supporting Research Activities
7. Nokia Mobile Innovation Lab
8. Senior Faculty Members act as Research Mentors of Junior Faculty Members

The following are some of the centres of excellence within NHCE

1. Centre for Intelligent Imaging Solutions
2. Centre of Excellence for Motion Capture
3. Centre of Excellence for Edufotainment on Wheels
4. Design Studio and Product Development Centre
5. Technology Business Incubation Centre
6. Centre for Innovations, Creativity and IPR
7. SAP Centre of Excellence
8. Centre of Excellence of Digital Learning Resources

Also

Research and Development Committee at NHCE

Sl.No.	Name	Designation	Role
1	Dr. Manjunatha	Principal	Chairman
2	Prof. Kamalashish Deb	Asst. Professor-ME	Member
3	Dr. Clara Kanmani. A	Assoc. Professor – CSE	Member
4	Dr. Geetha Varma. V	Assoc. Professor – CV	Member
5	Dr. Sujitha. S	Assoc. Professor – EEE	Member

6	Mrs. Swathi B	Sr. Asst. Professor – ISE	Member
7	Dr. Mangayarkarasi	Professor – ISE	Member
8	Dr. Reema Sharma	Assoc. Professor – ECE	Member
9	Dr. Sujin Jose	Assoc. Professor – AUT	Member
10	Dr. Priyameet Kaur	Assoc. Professor – MBA	Member
11	Dr. A.P. Nirmala,	Assoc. Professor – MCA	Member
12	Mr. Ramanjaneya	Library Officer – LIBRARY	Member
13	Dr. Srinivasa G (Maths)	Professor & HOD – Maths	Member
14	Dr. Hitesh Kumar (Maths)	Professor – Maths	Member
15	Dr. Prakash Krishnaiah (Chemistry)	Professor – Chemistry	Member
16	Mr. Rama Chandra Naik (Physics)	Professor – Physics	Member
17	Dr. Gopala krishna	Dean – R & D	Member Secretary

Note: All HoDs of Various departments including the Principal are Ex-officio members of R&D Committee

File Description	Document
URL of Policy document on promotion of research uploaded on website	View Document

3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

Response: 7.31

3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

2019-20	2018-19	2017-18	2016-17	2015-16
20.64	11.74	2.44	1.22	0.53

File Description	Document
List of teachers receiving grant and details of grant received	View Document

3.1.3 Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years

Response: 0

3.1.3.1 The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
List of teachers and their international fellowship details	View Document
e-copies of the award letters of the teachers	View Document

3.2 Resource Mobilization for Research

3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 250.35

3.2.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
76.1	141	20.65	12.6	0

File Description	Document
List of project and grant details	View Document
e-copies of the grant award letters for research projects sponsored by government and non-government	View Document

3.2.2 Percentage of teachers having research projects during the last five years

Response: 8.24

3.2.2.1 Number of teachers having research projects during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
22	36	26	22	13

File Description	Document
Names of teachers having research projects	View Document
Link for additional information	View Document

3.2.3 Percentage of teachers recognised as research guides

Response: 25.64

3.2.3.1 Number of teachers recognized as research guides

Response: 70

File Description	Document
Upload copies of the letter of the university recognizing faculty as research guides	View Document
Link for additional information	View Document

3.2.4 Average percentage of departments having Research projects funded by government and non-government agencies during the last five years

Response: 25.61

3.2.4.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	2	2	0

3.2.4.2 Number of departments offering academic programmes

2019-20	2018-19	2017-18	2016-17	2015-16
12	10	11	11	11

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document

3.3 Innovation Ecosystem

3.3.1 Institution has created an eco system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, community orientation, Incubation etc.

Response:

The institution anticipates in various development activities for Faculty and students with a focus on Research work. The college has created a learning environment for students with the practical oriented pedagogy with case studies, expert interaction, industry visits, real time projects and dissertation, debates, competitions, management activities, business models, role plays etc. The students take up the projects in their respective field of study as a part of the curriculum. Class rooms are equipped with ICT and smart boards in the college. Library has 7277 books for reference and required hard copies of journals. The library is also equipped with e journals with a digital library for the staff and students to update the information and knowledge. Specific time will be given to students for analysis and to solve the problem to be presented by the students in class room. The Workshops, Seminars, Guest Lectures are being conducted by different department. The experts are invited from different background to conduct Guest lectures & seminars and to share their experiences with the students to update their knowledge. Students are motivated to take part in different intercollegiate fest and other cultural activities to enhance their abilities.

Besides curricular activities, the students are encouraged to take part in Extra-curricular activities and CSR activities like Unnat Bharat Abhiyan, Swachh Bharath Abhiyan, creating awareness on Health related issues, etc. The teachers are also encouraged to attend the seminars, conferences and present, publish the papers in the national and international journals. For transferring of knowledge, the digital technology is being used in addition to the traditional method of teaching using black board, such as LCD projectors, ICT, online assignments, E-content were developed for study material etc. are also used.

Incubation Services at NHCE

- Access to Physical Facilities/Common Services/ High-Speed Internet Access for Incubation
- Access to Intellectual Infrastructure at Host Institute
- Obtaining Initial Financial Support (Grants, Seed Capital, Support for Recurring Expenses etc)
- Assistance for Proof of Concept (PoC) and PoC to Prototype and Testing , Product Design Solutions/Prototyping etc
- Feasibility Study (Technical and Financial)
- Help with Business Basics
- Marketing Assistance/Market Research/Pilot Study/Test Marketing. Enhancement of Marketing Skills,
- Commercialization/Scale up:
- Access to Bank Loans, Loan Funds and Guarantee Programs and Access to Angel Investors or Venture Capital etc
- Business Structuring Advisory: Help with Accounting/Financial Management/ Company Formation/Management Team Identification/HR Services
- Help with Presentation Skills and Business Etiquettes
- Comprehensive Business Training Programs
- Assist to instill Confidence and Access to IT Tools/ Better Business Solutions/Expansion etc (E-Commerce and M-Commerce)
- Assisting with Identification of members for Advisory Boards and Mentors
- Networking Activities: Links to Strategic Partners; Links to Higher Education Resources/R&D Labs/Facilities
- Technology Commercialization Assistance and Management Evaluation
- Help with Regulatory Compliance
- Intellectual Property Rights/Management

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.

Response: 286

3.3.2.1 Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
80	62	75	49	20

File Description	Document
List of workshops/seminars during last 5 years	View Document

3.4 Research Publications and Awards

3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following: 1. Inclusion of research ethics in the research methodology course work 2. Presence of Ethics committee 3. Plagiarism check through software 4. Research Advisory Committee Response: A. All of the above	
File Description	Document
Any additional information	View Document
Link for additional information	View Document

3.4.2 Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/supervisors provided at 3.2.3 metric) during the last five years Response: 0.86	
3.4.2.1 How many Ph.Ds are registered within last 5 years Response: 60	
3.4.2.2 Number of teachers recognized as guides during the last five years Response: 70	
File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
URL to the research page on HEI web site	View Document

3.4.3 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 3.09

3.4.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
326	183	153	143	88

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document

3.4.4 Number of books and chapters in edited volumes / books published per teacher during the last five years

Response: 0.25

3.4.4.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
10	14	18	30	0

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4.5 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed

Response: 3.67

File Description	Document
Bibliometrics of the publications during the last five years	View Document

3.4.6 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

Response: 14

File Description	Document
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View Document

3.5 Consultancy

3.5.1 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).**Response:** 0**3.5.1.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
List of consultants and revenue generated by them	View Document
Any additional information	View Document

3.5.2 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs).**Response:** 66.73**3.5.2.1 Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
17.90	20.13	18.97	5.78	3.95

File Description	Document
List of training programmes, teachers and staff trained for undertaking consultancy	View Document
List of facilities and staff available for undertaking consultancy	View Document

3.6 Extension Activities**3.6.1 Extension activities are carried out in the neighbourhood community, sensitising students to social issues, for their holistic development, and impact thereof during the last five years****Response:**

AICTE ACTIVITY POINTS: The objectives of AICTE student activity is to expose students to the real time life challenges, to provide opportunity to gather data, analyse data, propose solutions and implement solutions, provide an opportunity for personal development, to create engineers who are proud volunteers having a sense of achievement and ready to take up projects having social impact and to create digital awareness. This programme is a non-credit programme can be taken up any time during the semester weekends and holidays.

Engineering graduates need to earn activity points before their graduation to get awarded with the degrees. Students should earn these activity points by working in rural places and coming out with technological initiatives to beat the civic crisis in the city and State. The All India Council for Technical Education (AICTE) has come up with an activity programme for students to take up to earn stipulated points. According to the AICTE, a regular student admitted to the four-years degree programme and student now entering the four-year degree programme through lateral entry shall earn 100 and 75 activity points respectively for the award of degree through AICTE Activity Point Programme. It also said that students transferred from other universities, directly to the fifth semester are required to earn 50 activity points from the year of entry.

The activities prescribed by AICTE include helping local schools to achieve good results and enhancing their enrolment in higher or technical or vocational education; preparing an actionable business proposal for enhancing the village income; developing sustainable water management system; tourism promotion innovative approaches; promotion of appropriate technologies; reduction in energy consumption; to skill rural population; facilitating 100 per cent digitised money transactions; setting of the information imparting club for women leading to contribution in social and economic issues; developing and managing efficient garbage disposable system; to assist the marketing of rural produce; food preservation or packaging; automation of local activities; spreading public awareness under rural outreach programmes; and contribution to any national level initiative like Digital India or Skill India or Swacch Bharat Internship, etc.

File Description	Document
Upload Any additional information	View Document

3.6.2 Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognised bodies during last five years

Response: 9

3.6.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
6	1	1	0	1

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

Response: 75

3.6.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
29	10	08	18	10

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document
Any additional information	View Document

3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

Response: 29.34

3.6.4.1 Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
2189	1107	1150	2320	1200

File Description	Document
Reports of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.7 Collaboration

3.7.1 Number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

Response: 0

3.7.1.1 Total number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document
Any additional information	View Document

3.7.2 Number of functional MoUs with institutions of national, international importance, other institutions, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 35

3.7.2.1 Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
16	8	7	4	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other Institutions etc during the last five years	View Document

NAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The College Campus is set amidst halcyon surroundings, enveloped by fresh air and greenery on the outer ring road of Bangalore, away from the hustle and bustle of the city. The imposing building and the lush green lawns are wonderful salubrious ingredients for meaningful learning. Every effort has been made at this Campus to ensure that the main building conforms to excellent standards of quality in construction. Every minute detail has been thought about, planned and executed in this Center for Learning. Purpose designed landscape and trees straddle the main block at NHCE in a beautiful campus. Located on Bangalore's IT corridor, the college is a paradise for learning.

The college campus is Located in the IT corridor of Bangalore surrounded by MNC's and IT giants. Such as INTEL, ACCENTURE, CAPEGEMINI, ARM, SYMPHONY, WIPRO, NOKIA, JP MORGAN & CISCO to name a few.

The college constitutes Infrastructure Development Committee

Sl.No.	Name	Designation	Role
1	Dr. Manjunatha	Principal	Chairman
2	Mr. L.N. Rao	Project Manager	Member
3	Dr. Niranjana P S	Professor & HOD Department of Civil Engineering	Member
4	Ms. Sailee Joshi	Quantity Surveyor	Member Secretary

<https://newhorizon-nhengineering.s3.ap-south-1.amazonaws.com/nhengineering/wp-content/uploads/2021/04/01075952/Infrastructure-Committee-Details-2016-2021-1.pdf>

Infrastructure and Physical Facilities for Teaching - learning are

- Library & Information Center
- Lecture Halls : The Lecture Halls are airy, spacious and well ventilated, in conformity with international standards. Extensive use of audio-visual media enables the students to grasp advance technology quite easily.
- AUDITORIUM: A 700 Seater Auditorium built to emulate international standards for intellectual activities like paper presentations, seminars, workshops, debates and inter-collegiate competitions. Guest lectures for the students and faculty are conducted here regularly.
- Conference Hall:
- Video Conference Hall: Video conference room, with the help of telecommunication technologies, allows two or more locations to communicate through a simultaneous two way video and audio

transmissions. This room is also used as an online class room. It has recording facility which enables recording of Guest Lectures for the benefit of the students.

- Seminar Hall: Seminar Halls are built with state of the art facilities to cater to the need of every student. Seminar halls are utilized for conducting seminars, workshops, guest lecturers and various other intellectual activities.
- Transportation: A fleet of comfortable, well –maintained buses have been provided for the students.
- Alternate Sources of Energy:
- Water Management System : “Water is life ‘s matter and matrix, mother & medium . There is no life without water”.-Albert Szent-Györgyi - The institution is committed to water sustainability & has dedicated water management system.
- Electrical Substation
- Fire extinguisher

File Description	Document
Upload Any additional information	View Document
Paste link for additional information	View Document

4.1.2 The institution has adequate facilities for cultural activities, yoga, games (indoor, outdoor) and sports. (gymnasium, yoga centre, auditorium, etc.)

Response:

The Institution has **Physical Education and Sports Committee**

Sl. No.	Name	Designation	Role
1	Dr.Manjunatha	Principal	Chairman
2	Dr.ShridharKurse	HoD – AU	Member
3	Dr.Nirajan P S	HoD – Civil	Member
4	Dr. B Rajalakshmi	HoD – CSE	Member
5	Dr.Sanjeev Sharma	HoD – ECE	Member
6	Dr.M Mahesh	HoD-EEE	Member
7	Dr. R J Anandhi	HoD-ISE	Member
8	Dr.Sheelan Mishra	HoD-MBA	Member
9	Dr.Asha V	HoD – MCA	Member
10	Dr.RevathiSankar	HoD-Physics	Member
11	Dr. V S Anusuya Devi	HoD-Chemistry	Member

12	Mr.Vinay JT	Physical Education Director	Member
13	Dr.M.S.Ganesha Prasad	Dean & Professor – ME	Member Secretary

Cultural Committee

Sl. No.	Name	Designation	Role
1	Dr. Manjunatha	Principal	Chairman
2	Dr. R J Anandhi	HoD-ISE	Member
3	Dr. Asha V.	HoD & Professor – MCA	Member
4	Dr. Sowmya Narayan	HOD-Soft skill and Life Long Learning	Member
5	Prof. Mohan	Associate Professor – EEE	Member
6	Prof. Santhosh	Asst. Professor – Mechanical Dept	Member
7	Mr. Shaun John	Student Member	Member
8	Ms. Sindhu Reddy	Student member	Member
9	Dr. Anitha S Rai	Head – Library & Information Center	Member Secretary

SARGAM is an annual state level inter collegiate cultural fest, which provides a great opportunities for the student to involve themselves in various activities which are quite diverse and challenging.

Sports at the NHCE are played with much fervour and passion. There is emphasis on regular exercise and physical fitness. All games are supervised by professional coaches. Team spirit and the desire to give the best possible performance are our watchwords. Within a short span of time NHCE has seen tremendous improvement in the technique, fitness level as well as performance of our students in the sports arena. Our students regularly participate in tournaments including those at the state level.

- Indoor Gym: ” The last three or four reps is what makes the muscle grow. This area of pain divides a champion from someone who is not a champion”.-Arnold Schwarzenegger
- Outdoor Gym: ” Student needs to be physically fit to stay motivated . In order to fulfill their fitness pledge, institution boasts the best of fitness facilities “.
- Indoor Arena:Student needs a healthy mind to excel in Academics, we ensure that our students stay fit irrespective of external weather conditions to reap the greatest benefits of indoor sports facilities.
- Outdoor Sporting Facilities: Athleticism teaches us to cure that needed to be endured , that endurance is naturally inherited in outdoor sporting activities

File Description	Document
Geotagged pictures	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 96.36

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 106

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

Response: 12.49

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
197	275	353	134	150

File Description	Document
Upload Details of Expenditure , excluding salary during the last five years	View Document
Link for any additional information	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:**Details of Library**

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 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 47195 volumes, 60 print journals, provides access to electronic resources, newspapers and business magazines, and multimedia resources, and also have institutional membership of ISTE, CSI, DELNET, IETE, and IEI. The library fully automated with integrated library management system (ILMS). VISION

Vision

“Empowering NHCE research and learning community with expertise, innovative services and outstanding collection in a networked world.”

Mission

To provide physical and virtual spaces respond to its users to enrich the learning experien “To provide physical and virtual spaces respond to its users to enrich the learning experiences and to multiply the ways in which people can pursue excellence.”

Library Statistics

Books - Volumes	47195
Titles	10119
E-Books	25589
E-Journals	7361
Project Reports	5691
Non Book Materials	4243
Bound Volumes	1434
Journals	48
Magazines	11
Technical Magazines	05
Newspapers	13

Details of ILMS

1.	Name of ILMS Software	Easylib	
2.	Nature of automation	Fully Automated	
3.	Version	4.3.4	
4.	Year of Automation	2005	
5.	Web opac	http://202.62.77.36/epac/EPAC_selorg.asp	

File Description**Document**

Upload any additional information

[View Document](#)

Paste Link for additional information

[View Document](#)**4.2.2 Institution has access to the following: 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources****Response:** A. Any 4 or more of the above**File Description****Document**

Institutional data in prescribed format

[View Document](#)**4.2.3 Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)****Response:** 31.29**4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
29.38	28.80	32.20	32.00	34.09

File Description**Document**

Details of annual expenditure for purchase of and subscription to journals/e-journals during the last five years

[View Document](#)**4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the last completed academic year**

Response: 17.14

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 956

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution has an IT policy covering wi-fi, cyber security, etc., and allocated budget for updating its IT facilities

Response:

COMPUTERS	1600
LAPTOPS	240
SMART BOARDS	27
OFC CABLES	Between Blocks
	All the computers are networked using
	CAT-6 cables
INTERNET	200 Mbps (1:1) -City Online &
	Jio (Unlimited)
WIFI FACILITY	200 Mbps Wi-Fi facility available in all the departments and hostels as well
SERVERS	16 Servers

COPIER MACHINES	21
PRINTERS	79
PROJECTORS	143
ANTIVIRUS	All the computers are secured and protected with the antivirus software – Kaspersky

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 3.59

File Description	Document
Student - computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution.**Response:** 750 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	View Document

4.3.4 Institution has the following Facilities for e-content development

1. Media centre
2. Audio visual centre
3. Lecture Capturing System(LCS)
4. Mixing equipments and softwares for editing

Response: C. 2 of the above

File Description	Document
Institutional data in prescribed format	View Document
Link for Additional information	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1 Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years****Response:** 25.97**4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
544.01	349.08	526.15	545.90	320.96

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The College Campus is set amidst halcyon surroundings, enveloped by fresh air and greenery on the outer ring road of Bangalore, away from the hustle and bustle of the city. The imposing building and the lush green lawns are wonderful salubrious ingredients for meaningful learning. Every effort has been made at this Campus to ensure that the main building conforms to excellent standards of quality in construction. Every minute detail has been thought about, planned and executed in this Center for Learning. Purpose designed landscape and trees straddle the main block at NHCE in a beautiful campus. Located on Bangalore's IT corridor, the college is a paradise for learning.

The college campus is Located in the IT corridor of Bangalore surrounded by MNC's and IT giants. Such as INTEL, ACCENTURE, CAPEGEMINI, ARM, SYMPHONY, WIPRO, NOKIA, JP MORGAN & CISCO to name a few.

The college constitutes Infrastructure Development Committee

Sl.No.	Name	Designation	Role
1	Dr. Manjunatha	Principal	Chairman
2	Mr. L.N. Rao	Project Manager	Member
3	Dr. Niranjan P S	Professor & HOD Department of Civil Engineering	Member
4	Ms. Sailee Joshi	Quantity Surveyor	Member Secretary

<https://newhorizon-nhengineering.s3.ap-south-1.amazonaws.com/nhengineering/wp-content/uploads/2021/04/01075952/Infrastructure-Committe-Details-2016-2021-1.pdf>

Software / Hardware Training Committee

Sl.No.	Name	Designation	Role
1	Dr. Manjunatha	Principal	Chairman
2	Dr. Prashanth CSR	Dean-Academics	Member
3	Dr. Sanjeev Sharma	HOD-ECE	Member
4	Dr. R. J. Anandhi	HOD-ISE	Member

5	Dr. Asha. V	HOD-MCA	Member
6	Dr. B. Rajalakshmi	HOD-CSE	Member Secretary

<https://newhorizon-nhengineering.s3.ap-south-1.amazonaws.com/nhengineering/wp-content/uploads/2021/03/29062351/Hardware-and-Software-Training-Committee-2.pdf>

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 29.17

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
1225	1568	2177	2309	669

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution and non-government agencies during the last five years

Response: 3.79

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
287	398	144	175	25

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

5.1.3 Following Capacity development and skills enhancement activities are organised for improving students capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology

Response: A. All of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefited by career counseling and guidance for competitive examinations offered by the Institution during the last five years.

Response: 88.83

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
7120	5510	5226	5917	357

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 59.78

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
895	922	728	749	720

File Description	Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch).

Response: 25.53

5.2.2.1 Number of outgoing student progressing to higher education.

Response: 370

File Description	Document
Details of student progression to higher education	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 136.5

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
35	16	13	9	4

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
93	21	25	2	6

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 59

5.3.1.1 Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
19	18	18	0	4

File Description	Document
Number of awards/medals for outstanding performance in sports/ cultural activities at inter-university / state / national / international level during the last five years	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

NHCE offers students the opportunity to participate in various types of academic and campus activities.

- The student representatives are regularly invited to the BOS Meetings. The Views of students are considered while initiating of new courses, curriculum framing, teaching methodology etc. The students are invited to the brainstorm sessions regarding this.
- The College offers 46 student clubs to provide opportunity to students to participate in wide range of Co-Curricular, Extra-Curricular, Social and Community Development Activities.
- The students participate in the feedback system. The Students provide feedback on faculty ,HODs and Institution .
- The students are exposed to current research through expert lectures from people of eminence. Several stake holders visit the campus and provide expert advice and also interact with students.
- The students also participate in seminars conducted elsewhere.
- The Students are encouraged to carry out mini & major project work in house and in collaborations with industry and academia.
- Few Student Representatives from various branches are invited to Academic Council Meetings.
- The students are part of service and extension activities through NSS, NCC, clubs etc.
- The student representatives are also part of IQAC, Anti ragging committee, BoS, Women's Cell and other committees.
- NHCE has embarked on a mission to recognize and award final year UG Engineering students who have taken up innovative, value added UG projects with a flavor for societal responsibility in their project work.
- Best project awards are given in every academic year through tech horizon - A project expo event.
- The Institution has recently established a Technology & Innovation Club for students with an aim to inculcate the culture of innovation amongst students and encourage them to generate new ideas.
- Every year the students actively participate in the annual intercollegiate technical symposium 'Tech horizon and intercollefgiate cultural fest Sargam. The students of various engineering colleges gather to collaborate, present, discuss, learn and explore development and applications in cutting edge technologies in all the fields of engineering and management.
- . Students form departmental associations and arrange talks from person of eminence from industry.
- Students are also encouraged to form chapters like IEEE, ICT etc to organize activity based programme for students.

File Description	Document
Paste link for Additional Information	View Document

5.3.3 Average number of sports and cultural events / competitions organised by the institution per year

Response: 4.6

5.3.3.1 Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	6	4	3

File Description	Document
Number of sports and cultural events / competitions organised per year	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association / Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services.

Response:

The Alumni Cell at NEW HORIZON COLLEGE OF ENGINEERING promotes new ideas and innovations in science and technology and continues to be a source of pride to all students, faculty and Alumni. Our mission is to create an environment for the growth of our students in association with our Alumni to generate intellectual capability, innovation and entrepreneurial capability, which will contribute towards the growth of Science and Technology in partnership with the industry. Our Alumni have always been recognised for their academic integrity and accountability; they have worked hard not just towards the progress of the Nation but have also supported global concerns. We try to inculcate in our students the respect for others and to imbibe the virtue of tolerance towards every individual.

The alumni of NHCE have contributed immensely to the growth and development of our Nation ranging from Infrastructure development to the Service sector. Our alumni have occupied very important positions with the Government of India and abroad and many have excelled in entrepreneurship in the corporate sectors. The highly enriched alumni at NHCE are a link between the past and the present which in turn paves the way for a better future. The strength of our alumni is the pride of NHCE and will endure at all times to serve the cause of humanity. As we look to the future, we envision a growing awareness and appreciation for different people and cultures. We extend a warm welcome to all our alumni and international visitors to NHCE community and ensure full support in your pursuits to explore mutually beneficial collaborations. The office of the Dean-Student Affairs will always be available to assist you in order to make your stay a comfortable, successful and memorable one.

Also Institute has Alumni Committee

Sl. No.	Name	Designation	Role
1	Dr.Manjunatha	Principal	Chairman
2	Dr.Niranjana P S	HoD – Civil	Member
3	Dr.M Mahesh	HoD-EEE	Member
4	Dr. R J Anandhi	HoD-ISE	Member
5	Dr.Sheelan Mishra	HoD-MBA	Member
6	Dr.Asha V	HoD – MCA	Member
7	Dr.Revathi Sankar	HoD-BSH(Physics Cycle)	Member
8	Dr.M.S.Ganesh a Prasad	Dean and Professor – ME	Member Secretary

File Description	Document
Any additional information	View Document
Link for additional information	View Document

5.4.2 Alumni financial contribution during the last five years (in INR).**Response:** A. ₹ 15 Lakhs

File Description	Document
Any additional information	View Document
Link for additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

Response:

New Horizon College of Engineering is an Autonomous college affiliated to Visvesvaraya Technological University (VTU), approved by AICTE and UGC. It is accredited by NAAC with 'A' grade & National Board of Accreditation (NBA). The Institution established its vision and mission through consultative process involving the stake holders of the Institute / Department such as Management, Governing Council members, Faculty, Students, Staff, Parents, Alumni and Employers, the future scope and the societal requirements. It satisfy the needs of society by providing quality education through leading-edge technology. Vision, Mission and objectives of the Institute focus on the needs of society by providing quality education. The governance comprising of PAC, DAB, BOS and ACM play significant role in the evolutionary reforms towards positioning the Institute in the realm of top-ranking institutes in the country. The Institute believes in promoting a culture of delegation of powers through strategic policies. The Principal of Institute is assisted by Deans, HODs, Administrative heads, Section in charges and coordinators of various cells in decision making process at the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. IQAC has a well-developed process to ensure quality benchmarks of academic and administrative activities.

VISION

- To emerge as an institute of eminence in the fields of engineering, technology and management in serving the industry and the nation by empowering students with a high degree of technical, managerial and practical competence.

MISSION

- To strengthen the theoretical, practical and ethical dimensions of the learning process by fostering a culture of research and innovation among faculty members and students.
- To encourage long-term interaction between the academia and industry through their involvement in the design of curriculum and its hands-on implementation.
- To strengthen and mould students in professional, ethical, social and environmental dimensions by encouraging participation in co-curricular and extracurricular activities.

The Vision and Mission statements of the Institution are made available on Institute website, at central facilities such as Library, Principal Office and in all the Departments, all Institutional level documents like Internal Blue Books, Lab Record Books, Annual Magazines, and News Letter.

The following steps were followed to achieve the vision and mission of the Institute

Step 1: Vision and Mission of the university are taken as a basis.

Step 2: Views are taken from both internal stakeholders (Management, Principal, students) and external

stakeholders (parents, Employers, Industries, Alumni, Government regulatory bodies).

Step 3: A detailed survey of various universities and Institution websites was done to excel our Vision and Mission

Step 4: Armed with the information thus collected from the Alumni meet to deliberate on following questions to develop a strong and meaningful vision and mission of the Institution.

Step 5: The vision and mission were finalized once again by rechecking the views of stakeholders based on the following components: Quality Education, Professional Career, Higher Education, Innovation and Creativity and Lifelong learning.

Step 6: Approved Vision and Mission sent for Publication and to Dissemination

Step 7: Awareness of Vision and Mission

File Description	Document
Any additional information	View Document
Link for additional information	View Document

6.1.2 The effective leadership is reflected in various institutional practices such as decentralization and participative management.

Response:

The institute has formed different committees for decentralization and participative management.

Sl No	Department	Delegation Of Power To	Common Responsibility	Exclusive Responsibility
1	Mechanical Engineering	Dean & Professor	Administrative work	Sports Activities Alumni
2	Civil Engineering	HoD & Professor	Administrative work	Global Trips, GPE Program
3	Electronics & Communication	HoD & Professor	Administrative work	Professional body Activities (IEEE)
4	Computer Science & Engineering	HoD & Professor	Administrative work	IT infrastructure
5	Electrical & Electronics Engineering	HoD & Professor	Administrative work	Energy Management
6	Information	HoD & Professor	Administrative	Professional body

	Science & Engineering		work	activities (CSI) Anti Sexual harassment committee (ICCC)
7	Automobile Engineering	HoD & Professor	Administrative work	Ek Bharath Shresta Bharath
8	Basic Science & Humanities	HoD & Professor	Administrative work	
9	Library and Information Centre	Head	Administrative work in the Library	Student Extra curricular Club activities, Cultural Coordinator Students Feedback

File Description	Document
Any additional information	View Document
Link for strategic plan and deployment documents on the website	View Document
Link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Institutional strategic plan has been made by performing deep analysis of Strength, weakness, Opportunity and Threat of the institute. Several meetings and interactions with Management, Director, Dean Academic, Dean Research, Registrar, all HoDs, Faculties, Supporting staff, Students, Parents and Alumni were held for the same.

Following key points about institute were discussed to carry out the analysis

- Infrastructure/Laboratory/Equipment/Workshop
- Research/Consultancy
- Placement Cell
- Industry interaction
- Workshop/Training Programme for Faculty/Staff/Student
- Mentorship Programme for the students
- Active & Innovative Learning Process

- Outcome based Curriculum
- Admission policies/Fee Structure
- MoU with Reputed Institutes/Industries
- E-Learning/Library
- Skill Development Programme
- Unnat Bharat Abhiyan
- Sports/clubs/Activities/social Service
- Awards/Scholarships
- IT Infrastructure/ digital technology
- Security
- Woman grievance & redressal

After several brainstorming session by keeping above key points in mind, following strategy plans and its implementation & monitoring have been set up that transform New Horizon College of Engineering into globally recognized technical institute.

- 1.To improve teaching learning environment
- 2.To improve laboratory/ library
- 3.To enhance research culture
- 4.To enhance interaction with reputed institute
- 5.To provide mentorship to students
- 6.To start new programs in emerging areas
- 7.To obtain accreditation for various courses
- 8.To improve quality of campus
- 9.To improve students placement
- 10.To increase Sports activity/social services
- 11.Trained students under Skill Development Program
- 12.To improve the quality of rural areas under the “Unnat Bharat Abhiyan”

The Implementation and Monitoring parameters of each strategic plans are uploaded.

File Description	Document
Any additional information	View Document
Link for Strategic Plan and deployment documents on the website	View Document
Link for additional information	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Response:

The NHCE has National Advisory Board, Governing Council, Academic Council, Various Statutory committees and Steering Committee for carrying out the various functions and responsibilities in pursuit of

excellence.

- To ensure observance and compliance of instructions issued by AICTE, Government of Karnataka and affiliating University.
- To ensure that the building, land, furniture and facilities are not being used for any other purpose (such as holding political meetings, communal meetings), except for running AICTE approved courses in the institute.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.
- Create peaceful and favorable atmosphere for study free from ragging.

Powers and Functions of Chairperson and Member Secretary of Governing Council

- The Chairperson shall intimate the date of the Governing Council meeting to the Principal-cum-Member Secretary for arrangement of Governing Council meeting. In case the Principal-cum-Member Secretary fails or ignores to arrange Governing Council meeting, the Chairperson can call for Governing Council meeting.
- Member Secretary of Governing Council of the Institute shall be the Principal, who executes the decisions taken in the Governing Council on behalf of the Governing Council.
- He would take correspondence on behalf of the Governing Council meeting in relation with the decisions taken in it and get it confirmed by the Chairperson and members present. With confirmation, the proceedings would be forwarded to AICTE, Government of Karnataka and affiliating University.
- The Member Secretary would maintain the properties of the institution and remain in-charge of it, the title deeds and papers related to the need of the institution.
- The Member Secretary would issue appointment letters to the staffs selected by the Recruitment Committee after the approval from the sponsoring trust and the Governing Council of the institute.
- To ensure that the building, land, furniture and facilities are not being used for any other purpose (such as holding political meetings, communal meetings), except for running AICTE approved courses in the institute.
- To submit reports and returns from time to time to AICTE, Government of Karnataka and affiliating University.
- Create peaceful and favorable atmosphere for study free from ragging.

A number of committees are present in the college that are formed taking into the considerations of the students and faculties. There is diversification that ensures that the committees address any issues faced by the stake holders and also aims for the improvements under the purview of the respective committees. The various committees and their in-charges are as follows:

- Alumni Committee: Members are involved in maintaining alumni database and organizing alumni meets
- Anti-Ragging Committee: Members are involved in prevention of ragging of students in the institute
- Anti-Sexual Harassment Committee: Members are involved in prevention of any Sexual Harassment in the institute
- Women Empowerment Committee: Members are involved in empowerment/ development activities for women in the institute

- College Internal Complaints Committee (CICC): Members are involved in handling internal complaints of the institute
- SC/ST Welfare Cell: Members are involved in maintaining scholarship details for SC/ST students

File Description	Document
Any additional information	View Document
Link to Organogram of the Institution webpage	View Document
Link for additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
Institutional data in prescribed format	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff and avenues for career development/ progression

Response:

Professional

- Quality Assessment and Skill Development Centre
- Encouraging Faculty Members for Higher Studies
- Incentives for Faculty Publications
- In-house Grant for Research Projects
- Sponsoring for Seminars/ Workshops/ Conferences in India and Abroad
- Sponsoring for B.E (Part-Time) for Supporting Staff

Welfare

- Employee Provident Fund
- Staff Family Benefit Fund

- Superannuation Benefits of EPF, Family Pension Scheme, Gratuity Scheme
- Financial Support for Laptop purchase
- Employees Group Insurance
- Medical Centre, Tie up with Sakra Hospital & Ambulance Facility
- Free Annual Medical Check Up
- Medical Insurance
- Maternity leave for Women Employees
- Crèche Facility for Children of Women Employees
- Food and Accommodation in Hostel
- Free transport Facility
- Recreational Trips, Gifts and Birthday Celebrations
- Concession in Tuition Fee for Staff Children
- Reimbursement for Children's book, bags, uniform, shoes etc given to staff children whose income is less than Rs. 15,000/- per month.
- Uniform for class IV employees.

File Description	Document
Link for additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.

Response: 5.52

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
21	9	11	36	3

File Description	Document
Institutional data in prescribed format	View Document

6.3.3 Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.

Response: 17.8

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
30	22	17	19	01

File Description	Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 30.39

6.3.4.1 Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
158	142	79	28	17

File Description	Document
Institutional data in prescribed format	View Document
Link for additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The Institute has a mechanism for internal and external audit to ensure financial compliance. The institutional accounts are regularly audited. The observation of the auditors if any are immediately corrected / rectified.

Internal Audit:

The internal audit is an ongoing continuous process. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough quarterly basis check and

verification of all payments, receipts & journals vouchers of the transactions cash books, ledger account review that are carried out in each financial year on an accrual basis system.

External Audit:

The external auditor appointed by the college performs audit of the financial statements of the college. The financial records are audited by qualified chartered accountants after the end of each fiscal year is certified income & expenditures, balance sheet and prepared notes to accounts are certified.

Statutory financial audit of Institute

It is conducted in two sessions, first in the month of October November/ December for period of six months starting from 1st April to September and second in the month of May/ June for the period from October to March. Finalization of account is completed in June and audited statement is prepared in July. The audited statement is duly signed by Principal, Chairman and Chartered Accountant. All accounting systems are accrual basis computerized and maintained on Tally. The Institution also publishes audited financial statements on the institutions website as information for the public.

Finance Committee:

Sl.No.	Name	Designation	Role
1	Dr. Manjunatha	Principal	Chairman
2	Shri. H. N. Suryaprakash	Registrar	Member
3	Dr. Revathi Shankar	HoD-Physics	Member
4	Ms. Geetha	Sr. Accounts Executive	Member
5	Ms. Malathi Madhusudan	Sr.Ex. Director A/c's & Finance	Member Secretary

The Board of Management in its meeting constituted a Finance Committee as an advisory Body to advice the BOG on all matters connected with the finances of the college. The BOG reviews/ratifies the proceedings. Budgetary provisions for the departments are made based on the requirements/inputs provided by the HOD. The departments propose their budgetary requirement for the particular year. In the capacity of the Member-Secretary of the Board of Governors, the Principal puts-forth proposals on finance related matters and seeks approval and ensures its apt implementation. Annual budget for institute is prepared at the beginning of financial year, considering potential income and expenditures (recurring and non-recurring) involved for the year.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)**Response:** 276.94**6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)**

2019-20	2018-19	2017-18	2016-17	2015-16
74.85	66.41	62.82	38.76	034.10

File Description	Document
Institutional data in prescribed format	View Document
Annual statements of accounts	View Document
Link for additional information	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources**Response:**

Mobilization of funds in the institute is through several ways. The primary source is through collection of tuition fees and salary grants received from various bodies. In addition, financial assistance is obtained through external research projects and carrying out extensive consultancy works. The details of mobilization of funds are as shown below.

Institute Income and Expenditure for 5 years

FY	Total Income In Rs				Actual Expenditure (till 31/03) In Rs			Total No. of Students:	Expenditure per student
	Fee	Govt.	Grant(S)	Other Sources (Placement Training, Bus Fees, etc.,)	Recurring Including Salaries	Non- recurring	Special Projects (Land, Building, WIP)		
2019-2020	707599674	0	5741147	127604280	536995761	41753603	4177391	5369	108573
2018-2019	666506475	0	1511600	136876932	561993276	38268285	0	5510	108940
2017-2018	633628870	0	6012514	102783721	531735851	73098860	0	5785	104552
2016-2017	603117585	0	204500	73194407	469888719	44404088	0	5810	88519

2015-2016	464908560	0	4573615	47819165	395703591	25693559	49832021	4772	98749
File Description					Document				
Link for additional information					View Document				

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding five years with regard to quality (in case of first cycle) Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)

Response:

As per the NAAC - the Internal Quality Assurance Cell [IQAC] has been established as a post accreditation quality sustenance and enhancement measure. The Cell is presently headed by Dr. Anil Kumar Anagal, the Head, IQAC is part of all major Audit committees and other bodies and extends support to all the academic activities and procedures. The Cell has ensured enhancement and coordination among various activities of the institution and institutionalizes all good practices.

Two Best Practices

1. Internal Audit - PDCA process

PDCA Process is followed by the NHCE and is as explained below:

PLAN: Lesson Plan, Academic Calendar, Course Syllabus, Workshop, Guest lectures, Club Activities, CO-PO mapping are planned by course coordinator, Verified by module coordinator and program coordinator.

DO: Innovative teaching, Assignment, Quiz, Self-study, Internal assessment, SEE exam are conducted by individual subject faculties.

CHECK: Course files, Department files, OBE report, result analysis are audited by department audit committee, Assignment and Quiz are verified on monthly basis by the department faculty coordinator and verified by the PAC Committee.

ACT: Action on teaching methods, Revision of CO/PO and Curriculum were done by departmental advisory board (DAB) and IQAC which completes PDCA process of each department in New Horizon College of Engineering.



2. Quality Assessment and Skill Development Center

The Quality Assessment and Skill Development Center is established to increase the effectiveness of each member in particular and the institution as a whole. Based on the requirements of each institution, QASDC is offering varied training programs to all the faculties, including the supporting staff to help them to better their performances and to enhance their work skills. The center is also focusing on developing various kinds of assessment tools for all the staff members of The New Horizon Educational Institutions, in order to discover their potential and skills. With this assurance, the center ensures that all the members of the institution are availing of all help and support, that is provided by QASDC, for strengthening their capabilities, which in turn enables to empower the student fraternity.

- To assess the quality of all the members in the institutions.
- To provide competence in skills and techniques for qualitative transactions
- To build the required competent capabilities in each member
- To nurture the potential in each member to invent and innovate.
- To identify the specific areas of interest for capacity building.
- To organize faculty development programs like refresher and orientation courses for professional development.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

The Academic audits are conducted as per ISO standards and evaluated. The process consists of internal audits and external audits. Audits are conducted for faculties, Laboratories, and departmental activities. Academic audit process flow chart with assessment committee and parameter is shown in the fig 1



Assessment Criteria	Frequency	Implementation and Effectiveness
Academic Curriculum Monitoring	Once in Year	Verification of revised curriculum PO by Dean (Academics)
Academic Workload Monitoring	Once in Semester	Verification of work load reports time table by Dean(Academics).
Attendance monitoring	Monthly Once	Verification of Attendance report office of Dean (Academics), and H
Internal Assessment Monitoring	As per Academic Calendar	Verification of reports by Dean (Academics) and HOD
Course file and lab manual monitoring	Monthly once	Verification of reports by Dean (Academics) and HOD
Project monitoring	As per Academic Schedule	Verification of reports by Dean (Academics) and HOD

Training & development	Monthly once	Verification by HOD and Dean (R&D)
Research & Faculty development	Semester wise	Verification by HOD & Dean (R&D)
Student Discipline Committee (Institute Level)	Monthly once	Verification of reports by office of Dean (Student Affairs) and HOD
Student Mentoring/ Counselling	Monthly once	Verification of reports by Dean (Student Affairs), Head Counsellor and HOD
Feedback	End of semester	Verification by HOD & Dean (Academics)
Exam Committee	As per the academic calendar	Verification by HOD & Controller of Examination (COE)
Purchase Committee	Once in a Year	Verification of reports by HOD & office of registrar, IQAC
Library	Once in a Year	Verification of reports by HOD & Librarian
Placement Committee	As Required	Data is available with T&P cell
Website Monitoring	As Required	Data is available with PR Department

File Description	Document
Any additional information	View Document
Link for additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
- 2.Collaborative quality initiatives with other institution(s)
- 3.Participation in NIRF
- 4.Any other quality audit recognized by state, national or international agencies (ISO Certification)

Response: All of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Paste web link of Annual reports of Institution	View Document
Link for additional information	View Document

NAAC

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

NHCE Shows gender equity and sensitivity through various initiatives and actions for creating safe, Secure and healthy atmosphere in the campus. Sensitization of the students is done through awareness programmes/events and professional counselling.

Specific initiatives with respect to key areas are as follows

- **Safety and security**
 - **Hi-Tech Surveillance system:** E- Surveillance with high resolution cameras through day and night facility of distributed recording in control room has been set up in the campus, entry of unwanted element is monitored through these cameras. This system ensures that all Female staff, students can move freely in the campus and feel assure that they are secure at all the time in the campus .



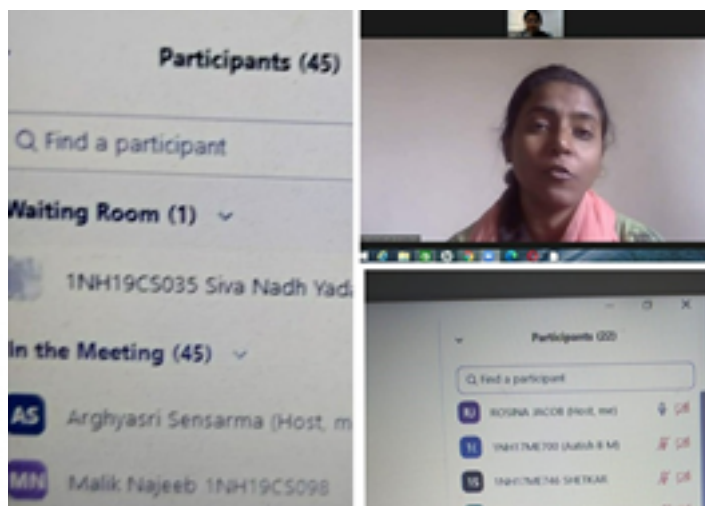
- **Hostels:** Separate hostels for boys and girl students on the campus with Furnished Rooms and attached bathroom. A Senior Faculty Member who acts as a Warden-Friend-Guide is the exclusive feature of the Hostel. Behavior of students is monitored under set of well defined rule under the guidance of wardens. All student and staff compulsory were their ID cards at all times on the campus thus ensuring non entry of any outsiders also unauthorized persons. <https://newhorizonindia.edu/nhengineering/hostels/>



- **Security personnel:** The NHCE has strong security personnel positioned all around the campus to physique secure admission with Institution ID card



- **Medical Facilities:** NHCE health centre with doctors and Nursing staff is available in the campus to provide medical care to the students, Specialists are for also invited to visit the campus as and when necessary, nursing and other staff is available 24 hours with emergency medicine and ambulance .
- **Professional Counseling:**
 - Department of Counseling at NHCE offers individual, group and family counselling in the campus. Department is equipped with 7 professionally qualified counselors who are easily approachable to the students and help them to deal with their daily life challenges and develop an insight for making right choices and decisions in their lives. In the department, each counsellor allows an individual (both boys and girls) to have an opportunity to improve upon their understanding of themselves, including their pattern of thoughts, behaviour, feelings and the ways in which these may have been problematic in their lives. It also helps to examine how to tap into existing resources or develop new ones that enhance their academic and personal lives. <https://newhorionindia.edu/nhengineering/category/professional-counselling/>



- **Common Rest Room:** In each block of the campus separate washroom are available for girls and boys. 24 hour's water is available with proper ventilation in the washroom. Separate girl's common room is created with facilities like indoor games, first aid box and newspapers.



- **Women Diversity in NHCE :** The details of Women Diversity @ NHCE is mentioned in the below link. <https://newhorizon-nhengineering.s3.ap-south-1.amazonaws.com/nhengineering/wp-content/uploads/2021/03/02102244/women-diversity.pdf>
- **Women Empowerment Committee @ NHCE :** Website link for Women Empowerment Committee @ NHCE , Minutes of Meeting for Women Empowerment Committee
- **College Internal Complaints Committee (CICC):** The college has CICC link is <https://newhorizon-nhengineering.s3.ap-south-1.amazonaws.com/nhengineering/wp-content/uploads/2021/03/29062603/CICC-1.pdf>

File Description	Document
Annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

Response: A. 4 or All of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

- 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.

- **EFFORTS TOWARDS CARBON NEUTRALITY**

The institution has taken up certain preventive measures to check the emission of carbon-dioxide. The parking facility is provided for the students' in an open ground which helps in preventing the accumulation of pollution caused by vehicles to a maximum extent.

File Description	Document
Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Link for any additional information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: Any 4 or All of the above

File Description	Document
Geotagged photos / videos of the facilities	View Document

7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards
5. Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certificates of the awards received	View Document
Any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Disabled-friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

The Institution has taken many extra efforts to provide a very inclusive environment for the students and faculties as well. This initiative was taken to exhibit the harmony towards Cultural, Regional, Linguistic, Communal Socioeconomic and Other Diversities. NHCE is undertaking various initiatives in the form of celebration of days of Eminent personalities National Festivals, NSS, NCC and other such activities to provide for an inclusive environment by bringing students and teachers with diverse background on single platform for creating inclusive environment ,These functions help in developing tolerance harmony towards culture ,region and linguistics and also communal social economics and other diversities. The subject Constitution of India and professional ethics is made mandatory to all B.E students across disciplines. Graduation day ceremony is conducted every year, where the convocation address is delivered to inspire and motivate the students for future journey. Two important national festivals, Republic Day and Independent Day are celebrated every year. All teaching , non teaching staff and students participate for the cause of nation. The inspiring speeches are conducted.

Sl. No.	Name of the Event

1	Republic Day
2	Independence day
3	Teachers Day
4	Engineers Day
5	Kannada Rajyotsava
6	International Women's Day
7	Birthday of Subhas Chandra Bose
8	Birthday of Sir. M Visvesvaraya
9	Birthday of Sardar Vallabhai Patel
10	Birthday of Rani Channamma
11	Birthday of Jhansi Rani
12	Birthday of Chatrapathi Shivaji
13	Birthday of Shaheed Bhagat Singh
14	Birthday of Swami Vivekananda
15	Birthday of Shaheed Hemu Kalani
16	Birthday of Major Sandeep Unni Krishnan
17	Deepavali
18	Founders' Day
19	Induction Program
20	Graduation Day
21	Freshers' Day
22	Annual Day "SARGAM"
23	Fresh Face
24	IT Quiz

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document
Any other relevant information	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

- The Courses of Constitution of India and Professional Ethics and professional ethics (CIPE) offered for first year and the course XXHSS323/423-Environmental science and Awareness (ESA) are offered for second year students across all branches.
- Present day society is facing lot of challenges created due to various factors. An Engineer has a big responsibility in addressing such societal and environmental issues.
- Hence the first year students
 - Gain knowledge of Indian Constitution and are able to solve the legal and societal issues. Also they acquire the knowledge about Amendment, Electoral Process, Fundamental Duties, Central and State Policies.
 - The students able to Understand Special Provisions in Indian Constitution and also in Human Rights Commission.
 - Also students sensitize the Engineering Ethics and Responsibilities denotes Scope & aim of engineering ethics. Responsibility of engineers, Impediments to responsibility. Clash of ethics. Risk, safety and liability of Engineers. Trust and reliability in Engineering, IPR (Intellectual Property Right), Corporate Ethics.
 - Topics under framing of Indian Constitution, State policy, Union executive, Election Commission of India and Ethics to be followed in Engineering profession are taught. Inculcating value system in the first year curriculum would enhance the sanctity of higher education.
- The Second Year students sensitize
 - To understand the concepts of environment, ecosystem, biodiversity and its interdependence on human life.
 - To develop an insight on types of natural resources and the concept of sustainable development.
 - Understand the different control measures of pollution and importance of waste

management.

- Think and apply technology as a solution for environment related concerns, keeping in view the different environmental acts and amendments.
- To make students socially and ethically aware and inculcate Eco friendliness, the Institution makes students take part in sports and other activities like NSS, NCC, Rotract club, Leo Club etc.
- The orientation programme for the first year students begins with a formal inauguration, in which either a senior educationalist or industry expert member or motivational speaker addresses the students by highlighting the importance of values, ethics, discipline and punctuality.
- The institution conducts number of programmes/extension lectures aimed at enhancing self-esteem and self-confidence in women staff and students.
- Programmes on values such as patriotism, tolerance, nonviolence, sympathy and compassion are being conducted regularly.
- For physical fitness, the students are encouraged to do yoga & attend games and sports to develop mental & physical fitness.
- The Student Code of Conduct is notified with an aim to promote discipline and positive learning.

Sl. No.	Name of the Event
1	Republic Day
2	Independence day
3	Teachers Day
4	Engineers Day
5	Kannada Rajyotsava
6	International Women's Day
7	Birthday of Subhas Chandra Bose
8	Birthday of Sir. M Visvesvaraya
9	Birthday of Sardar Vallabhai Patel
10	Birthday of Rani Channamma
11	Birthday of Jhansi Rani
12	Birthday of Chatrapathi Shivaji
13	Birthday of Shaheed Bhagat Singh
14	Birthday of Swami Vivekananda
15	Birthday of Shaheed Hemu Kalani

16	Birthday of Major Sandeep Unni Krishnan
17	Deepavali
18	Founders' Day
19	Induction Program
20	Graduation Day
21	Freshers' Day
22	Annual Day "SARGAM"
23	Fresh Face
24	IT Quiz
25	World Yoga day

File Description	Document
• Details of activities that inculcate values; necessary to render students in to responsible citizens	View Document
Any other relevant information	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

Response: A. All of the above

File Description	Document
Code of ethics policy document	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

NHCE is committed to promote ethics, human and social values amongst students and faculty. The institute organises National festivals as well as Anniversaries for the great Indian Personalities to celebrate the following days:

- Teachers Day -As birthday of great teacher Dr.Sarvapalli Radhakrishanna
- Engineers Day -The Birth anniversary of Sir M.Visvesvaraya the great Engineer of the country.
- Birthday of Subhas Chandra Bose
- Birthday of Sir. M Visvesvaraya
- Birthday of Sardar Vallabhai Patel
- Birthday of Rani Channamma
- Birthday of Jhansi Rani
- Birthday of Chatrapathi Shivaji
- Birthday of Shaheed Bhagat Singh
- Birthday of Swami Vivekananda
- Birthday of Shaheed Hemu Kalani
- Birthday of Major Sandeep Unni Krishnan
- Founders' Day

File Description	Document
Geotagged photographs of some of the events	View Document
Any other relevant information	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:**BEST PRACTICE - I****1. Title of the Practice**

Industry Sponsored Laboratories

2. Objectives of the Practice

CISCO NETWORK ACADEMY	To inculcate networking skills to meet the current and future needs of the Information Technology (IT) industry.
QUEST GLOBAL IIOT COE	Initiative to provide training to students in

	cutting-edge engineering technology streams and platforms of IIoT and bridging the technological gap between academia and industry.
CAPGEMINI	To develop students and make them industry ready by imparting the current trends of technology, newer learning methods by industry and academia experts in the field of PLM.
SAP LAB	To become a centre of excellence by educating the students in various modules of SAP with real time projects.
Schneider	Provide competent and industry-ready engineers to the industries in the field of Industrial and Building Automation.
HP CENTRE OF EXCELLENCE	To make learning as hands-on as possible in rendering students industry-ready.

3. The Context

The Industry sponsored lab - program highlights are

CISCO NETWORK ACADEMY	<p>Cicisco Networking Academy (NETACAD) aims at providing a detailed insight into the networking concepts that are essential for rapidly growing networking industry.</p> <p>Faculty & Students has Cisco Netacad account where they can access the various course content, and software in addition to Cisco hardware equipments.</p> <p>Faculties of Cisco Centre of Excellence are Globally Certified CCNA Instructors. Faculties keep themselves updated with latest technologies by attending a number of Global Instructor Professional Development Programs (IPDs) and Cisco Annual Conference, both conducted by Cisco Academy Support Centre Team.</p>
QUEST GLOBAL IIOT COE	<p>Quest Centre of Excellence will serve as a platform to create an ecosystem of resources for the digital needs in industrial segment and provide certification in IIoT platform</p> <p>To interact with subject matter experts in the digital solutions from the engineering service industry and enhance their knowledge.</p> <p>The students will be mentored and online</p>

	<p>trainings, hackathon and live projects.</p> <p>A model of Rail Management System has been set up to have a real time understanding of IIOT, IOT applications and control through console</p>
CAPGEMINI	<p>DEMS has greater focus towards IoT and connected product, smart engineering and Digital manufacturing.</p> <p>Faculty & Students have great access to Technology, Course content, software's from Dassault systems (France)</p> <p>3D Experience platform provides greater ability of software access in a single user interface.</p> <p>Students are being trained by experienced faculties and industry expertise from Capgemini.</p> <p>Trained students in PLM domain are directly recruited by companies like Capgemini every year</p>
SAP LAB	<p>SAP Nextgen lab provides learning platform in various technologies like SAP-ERP so that students gain the knowledge to build their career as a techno functional consultant.</p> <p>SAP also provides learning on most emerging technologies like machine learning and AI so that students can get exposed to trending programming knowledge like Python and R.</p> <p>SAP next-gen club associated with this lab regularly conducts hands on Sessions in various technologies.</p>
Schneider	<p>Training the students in the basics for industrial automation: equipment, architecture, design, input output connection, programming language, software programming</p> <p>Enabling the graduates to work in modern industries.</p> <p>Student Exchange Program</p> <p>Study Abroad Program</p> <p>Training the different industry partners of Schneider Electric India.</p> <p>Various Industry Institute Interaction programs in the form of FDP's, Workshops and Industrial Visits.</p>

HP CENTRE OF EXCELLENCE	<p>VERTICA Centre of excellence is focussed on giving an insight to students on major two big data platforms: VERTICA(licenced) and HADOOP(open-source)</p> <p>Faculty have regular Faculty Development Programmes and Workshops conducted on Big Data technologies.</p> <p>Both circuit and non-circuit branch students learn the courses offered by this lab to make career in data analytics.</p>
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4. The Practice

The best practices related to Industry sponsored labs are

CISCO NETWORK ACADEMY	<p>Cisco Networking Academy (NETACAD) aims at providing a detailed insight into the networking concepts that are essential for rapidly growing networking industry.</p> <p>Faculty & Students has Cisco Netacad account where they can access the various course content, and software in addition to Cisco hardware equipments.</p> <p>Faculties of Cisco Centre of Excellence are Globally Certified CCNA Instructors. Faculties keep themselves updated with latest technologies by attending a number of Global Instructor Professional Development Programs (IPDs) and Cisco Annual Conference, both conducted by Cisco Academy Support Centre Team.</p>
QUEST GLOBAL IIOT COE	<p>Students are provided with internship certification programs by Quest</p> <p>Live and interactive projects mentored by Quest Global experts</p> <p>Placement opportunities for students in Quest Global</p> <p>Visit by the students to Quest Global and freedom to interact with Quest Experts on technical solutions to projects</p> <p>Visit to IoT related Technical Expos and Conferences</p> <p>On an average every semester 2 events are organized by IIoT COE as</p>

	Workshops ,FDP , Expert lectures or Hackathons etc.
CAPGEMINI	<p>MOOC on various PLM courses are encouraged.</p> <p>A self-study on PLCM is carried out as a part of curriculum.</p> <p>Students perform analysis on real data using TATA Automotive case studies for their self-study project work.</p> <p>All assignments, internal and Semester End examination are conducted as lab experiments.</p> <p>Faculty members also undergo various certification courses on PLM as well as courses from Integration of PLM with Digital Manufacturing</p> <p>Exclusive sessional talks and workshops are conducted on PLM and Digital Systems by experts from Capgemini</p>
SAP LAB	<p>Project based hands on sessions are a regular feature</p> <p>Regular industry visits to SAP are conducted to understand real time experience .</p> <p>MOOC – Students are encouraged to enrol for online certification programme</p> <p>Industry expert talks on trending topics happens twice in a semester.</p> <p>Design thinking workshops happens once a year</p> <p>SAP 48 hours overnight Hackathon</p>
Schneider	<p>Curriculum Development and revision by industry Experts and French Professor who is the Director of the Indo French Schneider Lab</p> <p>Marks and credits are allocated based on completion of their task and creativity in generating new real time applications.</p> <p>More emphasis on Practical learning</p> <p>Student Exchange Program- Students from various Universities of France will be given an opportunity to undergo one month Internship at NHCE.</p> <p>Study Abroad Program- Selected students across all the branches of NHCE are sent to various universities of France for 3 months internship.</p>

HP CENTRE OF EXCELLENCE	Students obtain certificates from Vertica Academy after undergoing several certification courses through their online portal.
	MOOC on various Hadoop courses are encouraged.
	A self-study on Big Data Analytics is carried out as a part of curriculum.
	Students perform analysis on real dataset using Pig Latin commands as Pig script for their self-study project work.
	All assignments, internal and Semester End examination are conducted as lab experiments.
	Faculty members also undergo various certification courses on Hadoop as well as courses from Vertica Academy
	Exclusive sessional talks and workshops are conducted on VERTICA and HADOOP ecosystem

5. Evidence of Success

The evidence of success in terms

CISCO NETWORK ACADEMY	Routing & Switching-1 as Open Elective: The curriculum of this course is derived from CCNA Module-1, Introduction to Networks and part of CCNA Module-2, Routing & Switching Essentials
	Routing & Switching-2 as Open Elective: – It delivers content on few topics of Routing and Switching Essentials along with CCNA Module-3, Scaling Network configurations.
	Routing & Switching-3 as Open Elective: –It covers the concepts of CCNA Module-4 Connecting Networks.
QUEST GLOBAL IIOT COE	Industrial Internet of Things – Part 1 (Front End – HTML,CSS, jQuery, Javascript etc)
	Industrial Internet of Things – Part 2 (Embedded Systems)
	Industrial Internet of Things – Part 3 (Automation with Raspberry)
	Cloud Computing
CAPGEMINI	Product Life Cycle Management for beginners with critical details like bill of materials, parts classification, colour coding, PLM strategies for batch and mass production

	<p>systems. Digital Manufacturing – PLM:</p> <p>Digital Manufacturing, Benefits of Digital Manufacturing, Manufacturing the First-One, Ramp Up, Virtual Learning Curve, Manufacturing the Rest, Production Planning, Product Life Cycle Management for Professionals from First Model till the final development through ramp-up approach, PLM Concepts,</p> <p>Processes and Workflow: Characteristics of PLM, Environment Driving PLM, PLM Elements, Drivers of PLM, Conceptualization, Design,</p> <p>Development, Validation, Production, Support of PLM. Collaborative Product Development: Engineering Vaulting, Product Reuse, Smart Parts, Engineering Change Management, Bill of Materials and Process Consistency, Digital Mock-Up and Prototype Development, Design for Environment</p>
SAP LAB	<p>SAP COE offers ERP modules as below:</p> <ol style="list-style-type: none"> 1. Material management 2. Sales and distribution 3. Warehouse management 4. Production planning <p>SAP COE also provides access for S/4 Hana cloud platform with ERP sim.</p> <p>It also facilitates software learning programs like python, Jupiter and R .</p>
Schneider	<p>Schneider-Industrial Automation course is offered as open elective for all the engineering branches in 5th, 6th and 7th semesters in IFCEEAE.</p> <p>Industrial Automation is offered as professional elective for Electrical & Electronics Engineering stream students.</p> <p>A course on advanced automation, Advanced Industrial Automation and Building Automation is offered as a core subject to Electrical & Electronics Engineering stream students who will be performing a real time experiments in the IFCEEAE.</p>
HP CENTRE OF EXCELLENCE	<p>Big Data Analytics using HP Vertica-1 as Open Elective(NHOP01) for 6th& 7th semester students</p> <p>Big Data Analytics using HP Vertica-2 as Open Elective(NHOP04) for 6th& 7th semester students</p>

Big Data Analytics using HP Vertica as Professional Elective(CSE553) for 5th semester students

Data Analytics as Open Elective(NHOP10) for 6th& 7th semester students

The contents of courses NHOP01 & CSE553 are completely designed on VERTICA features and practical experiments to demonstrate –”how VERTICA is used in BIG Data scenario”. An introduction to Hadoop Ecosystem is also demonstrated as part of curriculum.

Complete hands-on experiments are conducted on SQOOP, PIG, HIVE, HBASE

A portion of the curriculum is aimed for the students in management perspective, where different types of Data modeling, analytics and case studies are included apart from practical knowledge on VERTICA.

6. Problems Encountered and Resources Required

Hardware setup resources for industry sponsored labs are

CISCO NETWORK ACADEMY	<p>Cisco proprietary switches and routers as connecting devices in the lab.</p> <p>Three 2960 series switches and three 1941 series routers</p> <p>For initial configuration three console cables are provided to configure LAN-WAN networks</p> <p>One HWIC2T card for establishing serial interfaces between routers.</p> <p>Packet tracers 7.2 and 7.3 versions are loaded on 4GB RAM systems.</p>
QUEST GLOBAL IIOT COE	<p>Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz</p> <p>1GB, 2GB or 4GB LPDDR4-3200 SDRAM (depending on model)</p> <p>2.4 GHz and 5.0 GHz IEEE 802.11ac wireless, Bluetooth 5.0, BLE</p> <p>2 USB 3.0 ports; & 2 USB 2.0 ports.</p> <p>Raspberry Pi standard 40 pin GPIO header (fully backwards compatible with previous boards)</p> <p>2 × micro-HDMI ports (up to 4kp60 supported)</p> <p>2-lane MIPI DSI display port & 2-lane MIPI CSI camera port</p>

	<p>4-pole stereo audio and composite video port</p> <p>H.265 (4kp60 decode), H264 (1080p60 decode, 1080p30 encode)</p> <p>OpenGL ES 3.0 graphics</p> <p>Micro-SD card slot for loading operating system and data storage</p> <p>5V DC via USB-C and GPIO connector (minimum 3A*) Power over Ethernet (PoE) enabled (requires separate PoE HAT)& Gigabit Ethernet</p>
CAPGEMINI	<p>Intel(R) Xeon(R) CPU E5-2630 v3, 32-Core Server Processor. 128GB DDR4 RAM. 7.2TB (4 RAID 1 arrays – each array has 1.8TB of disk space)</p> <p>35 High end systems with 7th Generation processors</p> <p>Digital Board</p> <p>Latest version of ENOVIA from Dassault System software is available with CATIA V5 R 26.</p> <p>Laboratory is also equipped with Latest teaching – Learning online tools.</p>
SAP LAB	<p>GBI Introduction to SAP using Global Bike The S/4HANA version 3.3.</p> <p>GBI 3.3 version does not add new functionality, it only has some 'fixes' to the 3.2 version.</p> <p>2. ERPsim Certification</p> <p>ERPsim system provisioning subject to certified trainer to operate the games by himself/herself.</p> <p>The server is hosted in Victoria University, Australia. NHCE has access to 1000 GBI 3.3 on S/4HANA , 239ERPsim and 200 SAP HANA Licence</p>
Schneider	<p>State of the art Lab with all Schneider electric Equipments</p> <p>10 PLC-HMI benches – To train on Industrial Automation system design using PLC M340 and HMI GXU3512 .</p> <p>1 pedagogical bench which is a small replication of a real industrial system. to validate the solution and programming.</p> <p>2 SCADA pedagogical benches for study and design of supervision systems</p> <p>1 bench for design, study& programming of addressable fire alarm systems</p> <p>1 bench for design, study& programming of</p>

	CCTV and access control
	1 bench for design, study& programming of energy management
	1 bench for design, study& programming of home automation system using Cbus.
HP CENTRE OF EXCELLENCE	HPE has set up the lab by installing their licensed data-warehousing database server 'VERTICA' as a 3-node cluster in the college.
	All the system in HP-lab can access this server by establishing a connection through 'putty' software.
	Also, Hadoop environment tools are installed as Cloudera package on 4GB RAM systems in lab.

BEST PRACTICE - II

1. Title of the Practice

MOOC – NPTEL local chapter at New Horizon College of Engineering

2. Objectives of the Practice

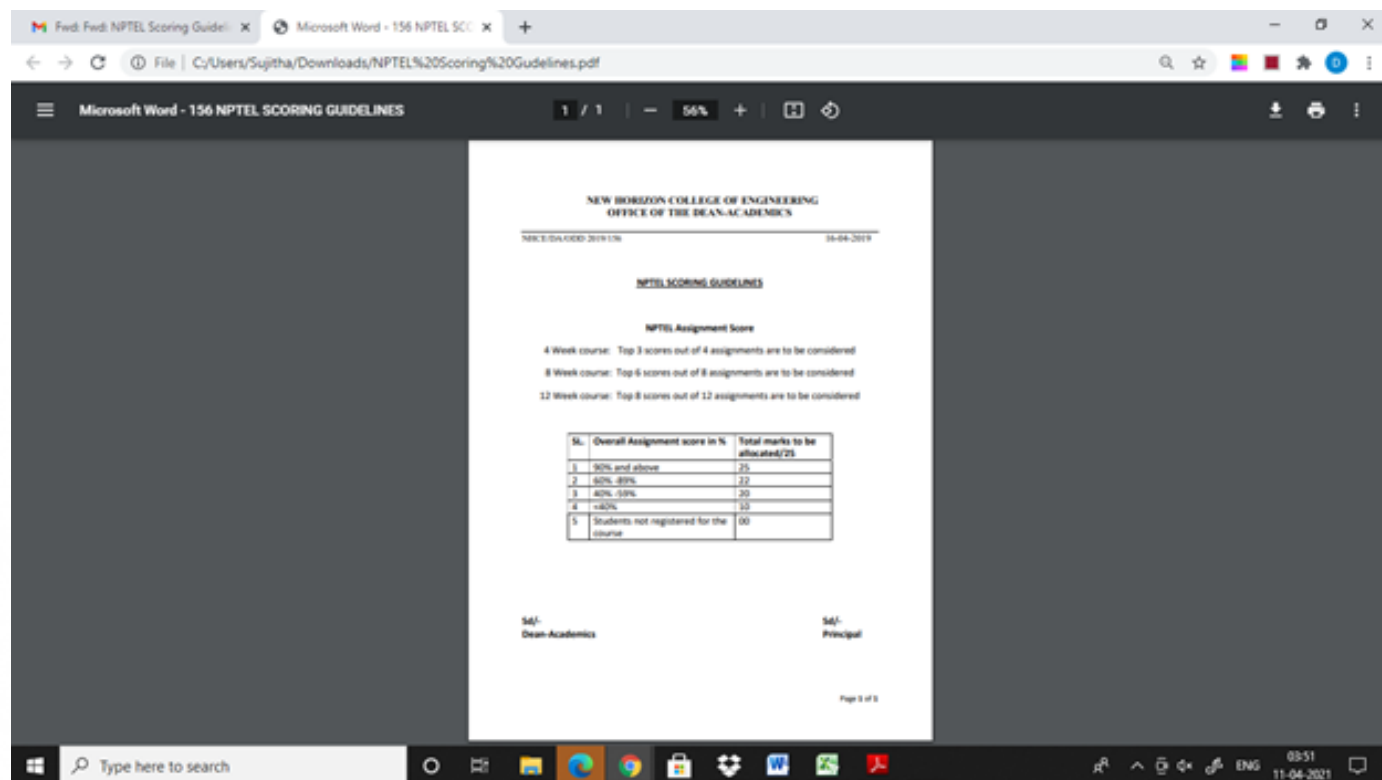
NHCE is hereby recognized as an Active Local Chapter for consistently encouraging the students to participate in the courses offered by NPTEL and for supporting them with the faculty members who can act as mentor for the enrolled courses.

3. The Context

New Horizon College of Engineering (NHCE) has been ranked No.2 with AA Grade by SWAYAM-NPTEL in Karnataka and ranked No. 20 with AA Grade in India amongst the Top 100 Local Chapters

4. The Practice

The 50 % weightage of CIE marks is given to the particular course linked to the NPTEL course decided by the BoS during syllabus framing for the students across all departments.



5. Evidence of Success

NPTEL Course details of NHCE Students and Faculty
- <https://nptel.ac.in/LocalChapter/statistics/691/>

Course Run	Present	Gold	Elite	Silver	Successful	Participation	Topper	NPTEL Stars	
Jan-Dec 2020	658	17	133	75	158	275	10	Details	
Jul-Dec 2019	934	11	283	125	227	288	15	Details	
Jan-Apr 2019	1455	24	130	396	798	107	32	-	
Jul-Oct 2018	176	8	89	0	63	16	7	-	
Jan-Apr 2018	199	1	74	0	96	28	1	-	
Jul-Dec 2017	115	4	75	0	30	6	7	-	
Jan-June 2017	3	0	2	0	1	0	0	-	
Jul-Dec 2016	13	0	3	0	6	4	0	-	
Jan-June 2015	1	0	0	0	1	0	0	-	



<https://newhorizonindia.edu/nhengineering/?s=BEST+PRACTICES>

File Description	Document
Best practices in the Institutional web site	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

The best practices at NHCE makes institution a respectable and most sought after Engineering college which provides the best amalgamation of Innovation, entrepreneurship development, skill up gradation, passion and aptitude along with sound theoretical subject knowledge which in turn makes our students pursue their passion and think beyond a job. The institution strives to uphold human values and adopts good practices to maintain the integrity of its stakeholders

CURRICULAR & CO-CURRICULAR

- Focus on Understanding the concepts than on Remembering
- Student centric pedagogy and innovation
- Customized mentoring and PTM, coaching classes
- Collaborative learning opportunities with industries through Industry sponsored labs, IVs Internships etc
- Alumnus Interaction and Guest Talks
- Marking of globally relevant events

RESEARCH AND CONSULTANCY

- Laboratory aided teaching modes
- Assignments /models / Subject related exhibitions/events
- Students' attempts to write project proposals
- Faculty members involvement in research and consultancy for revenue generation
- Mini Project works and Internship opportunities

OUTCOMES

- Excellent Results and Ranks
- Appreciation letters for student participations and parents
- Placement and Higher Studies
- Students Club activities - Awareness drives
- Research publications, patents commercialisation and Presentations by students

File Description	Document
Any other relevant information	View Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

NHCE has

- Ranked as Platinum Institution by AICTE and Confederation of Indian Industry.
- Rated in band 'A' under Private Institution Category 2020 by ARIA.
- 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.
- Autonomous Institute
- Affiliated to Visvesvaraya Technological University, Belgaum and AICTE approved
- Accredited by National Board of Accreditation (NBA)
- Accredited by NAAC with 'A' Grade
- Faculty-student ratio as per AICTE norms.
- Follows Choice Based Credit System (CBCS)
- Wi-Fi enabled campus with excellent Infrastructure
- NHCE is ranked 4th among the Top Private Engineering Colleges in Bangalore as per NIRF Ranking 2019, announced by the Ministry of HRD, Govt. of India.
- 100% Placement opportunities are provided to B.E, M. Tech, MBA and MCA students
- Foreign University Collaborations for study-abroad / student-exchange programs.
- Japan Career Centre is established to facilitate International Placements / Internships.
- Placements provided with reputed companies
- Industries on Campus
- MoU's with industries for campus connect, internships, recruitments, etc.
- Membership with professional societies like ISTE, IPE, IEEE, SAE, CSI, NGKC, RAI, etc.
- Ranked No.1 in Karnataka, 6th in South India, and 12th in India among the "BEST PRIVATE TECH SCHOOLS".
- Awarded "EXCELLENCE IN PROMOTING INDUSTRY-ACADEMIA INTERFACE"
- Awarded "MOST PREFERRED INSTITUTE WITH GLOBAL EXPOSURE"
- Awarded "BEST ENGINEERING COLLEGE IN INDIA – SOUTH"
- Awarded "BEST INSTITUTION TOWARDS INDUSTRY FOCUS EDUCATION DELIVERY FOR FULL EMPLOYABILITY".
- Honored with BEST INTERNATIONAL EDUCATION COLLABORATION OF THE YEAR
- Awarded "BEST ENGINEERING COLLEGE IN INDIA-SOUTH" by ASSOCHAM
- Accredited by TCS and Wipro for their academic interface program
- Provides value added courses
- Conducts national and international industrial visits, conferences, workshops, seminars, webinars and guest lectures
- General and Sindhi Community scholarships provided in merit and sports category.

Concluding Remarks :

NHCE has a scenic and serene campus that provides an environment which is conducive for personal and intellectual growth. The infrastructure acts as a facilitator for the effective delivery of the curriculum. NHCE

boasts of state-of-the-art facilities for its students.

The vision and mission of the institute are the regulatory decorations for the stake holders of the college. Good governance has been the core for the outstanding growth shown by the college in the field of education, innovation and research.

NHCE is ranked 99 in NIRF Ranking 2018, 106 IN NIRF Ranking 2019, 114 in 2020, Accredited by NBA for all Eligible UG Programs,, NAAC Accredited with “A” Grade and an AICTE -CII Platinum Awarded Institution in 2020.

NHCE, as a mentor Institution under AICTE Margadharsan Scheme.

The Major Milestones Achieved at NHCE sensible with enhanced research and consultancy facilities, fund mobilization through research grants and consultancy have crossed 16+ crores of rupees, 1213+ research publications and 209 patents

The INDUSTRY INTEGRATION at NHCE aims in Leveraging networking and collaboration with partnership.

Sports at the NHCE are played with much fervour and passion. There is emphasis on regular exercise and physical fitness. All games are supervised by professional coaches

NHCE has 46 student clubs to engage students in experiences beyond classroom. The activities foster involvement, promote leadership and instil life skills ensuring personal and professional development.

To ensure placements ,NHCE provides the right fitment to the strategic changing requirements of the Corporate, the Department of HRD has defined a robust training and mentoring process to enable the students in becoming billable resources from the day of inception through quantitative ability, verbal ability, reasoning ability, personality development , group discussion, technical and interview handling skills.

The Internships at New Horizon college of Engineering recognises the importance of practical exposure of students in the various industries.

The alumni have occupied very important positions with the Government of India and abroad and many have excelled in entrepreneurship in the corporate sectors.

NHCE Students and Faculty Achievements are in various aspects in 360 degree dimension Globally.

We Submit SSR for 2nd Cycle of NAAC Accreditation.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.</p> <p>1.2.1.1. How many new courses are introduced within the last five years Answer before DVV Verification : 453 Answer after DVV Verification: 220</p> <p>1.2.1.2. Number of courses offered by the institution across all programmes during the last five years. Answer before DVV Verification : 812 Answer after DVV Verification: 2027</p> <p>Remark : 1) Input edited as per the document provided in clarification. 2) For metric 1.2.1.2 input edited w.r.t. metric 3.1</p>																				
1.2.2	<p>Percentage of Programmes in which Choice Based Credit System (CBCS) / elective course system has been implemented (Data for the latest completed academic year).</p> <p>1.2.2.1. Number of Programmes in which CBCS / Elective course system implemented. Answer before DVV Verification : 12 Answer after DVV Verification: 12</p>																				
1.3.2	<p>Number of value-added courses for imparting transferable and life skills offered during last five years.</p> <p>1.3.2.1. How many new value-added courses are added within the last five years Answer before DVV Verification:</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>53</td><td>38</td><td>32</td><td>31</td><td>27</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>31</td><td>26</td><td>22</td><td>19</td><td>21</td></tr></table> <p>Remark : 1) Input edited w.r.t data provided in clarification document. 2) The courses comes under regular syllabus (e.g. python, java, dot net, AutoCAD etc. not considered under this metric)</p>	2019-20	2018-19	2017-18	2016-17	2015-16	53	38	32	31	27	2019-20	2018-19	2017-18	2016-17	2015-16	31	26	22	19	21
2019-20	2018-19	2017-18	2016-17	2015-16																	
53	38	32	31	27																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
31	26	22	19	21																	
1.3.3	<p>Average Percentage of students enrolled in the courses under 1.3.2 above.</p> <p>1.3.3.1. Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years Answer before DVV Verification:</p>																				

2019-20	2018-19	2017-18	2016-17	2015-16
3080	2162	1864	1176	985

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1332	1025	1019	688	731

Remark : Input edited as per the clarification document and metric 1.3.2

1.3.4 Percentage of students undertaking field projects/ internships / student projects (Data for the latest completed academic year)

1.3.4.1. Number of students undertaking field projects / internships / student projects

Answer before DVV Verification : 2115

Answer after DVV Verification: 1998

Remark : Observation accepted, edited accordingly. 1) DVV partner asked for the project completion certificate in clarification but HEI provided only details of project & internship. 2) Internship certificates are provided by HEI.

1.4.1 Structured feedback for design and review of syllabus – semester-wise / year-wise is received from

- 1) Students, 2) Teachers, 3) Employers,
4) Alumni**

Answer before DVV Verification : A. All 4 of the above

Answer After DVV Verification: A. All 4 of the above

1.4.2 The feedback system of the Institution comprises of the following :

Answer before DVV Verification : A. Feedback collected, analysed and action taken and report made available on website

Answer After DVV Verification: A. Feedback collected, analysed and action taken and report made available on website

2.1.1 Average Enrolment percentage (Average of last five years)

2.1.1.1. Number of students admitted year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16

2.1.1.2. Number of sanctioned seats year wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1554	1416	1464	1500	1536

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1554	1416	1464	1518	1536

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

2.3.3.1. Number of mentors

Answer before DVV Verification : 280

Answer after DVV Verification: 273

Remark : 1) Full-time teachers can be considered as mentors hence the input is edited accordingly.
2) Referred 3.2 metric

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

2.4.2.1. Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. year wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
96	94	67	48	42

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
105	87	66	64	55

Remark : Input edited as per the clarification document provided by HEI.

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

2.4.3.1. Total experience of full-time teachers

Answer before DVV Verification : 1489.3

Answer after DVV Verification: 1354.5

Remark : 1) The input is edited as per the metric 3.2 (Full time teacher) 2) The teacher who joined in 2020 and life skill trainer are not considered.

2.6.3 Pass Percentage of students(Data for the latest completed academic year)

2.6.3.1. Total number of final year students who passed the examination conducted by Institution.

Answer before DVV Verification : 1298

Answer after DVV Verification: 1407

2.6.3.2. Total number of final year students who appeared for the examination conducted by the Institution.

Answer before DVV Verification : 1364

Answer after DVV Verification: 1443

Remark : Input edited as per the documents provided in clarification

3.1.2 The institution provides seed money to its teachers for research (average per year, INR in Lakhs)

3.1.2.1. The amount of seed money provided by institution to its faculty year-wise during the last five years (INR in lakhs).

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
20.64	11.74	2.44	1.22	0.53

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
20.64	11.74	2.44	1.22	0.53

3.1.3 Percentage of teachers awarded national / international fellowship for advanced studies/research during the last five years

3.1.3.1. The number of teachers awarded national / international fellowship for advanced studies / research year wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
34	16	10	10	10

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

Remark : 1) HEI has not submitted e-copy of award letter of teacher. Awards without any financial support are not considered hence the input has been edited.

3.2.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

3.2.1.1. Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
785.9	676.2	633.82	124.3	78.97

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
76.1	141	20.65	12.6	0

Remark : 1) Input edited w.r.t e-copy of the letter of award for research. 2) HEI has provided same e-copy repeated times.

3.2.2 Percentage of teachers having research projects during the last five years

3.2.2.1. Number of teachers having research projects during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
96	80	60	48	10

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
22	36	26	22	13

Remark : Input edited as per the clarification document provided by HEI.

3.2.3 Percentage of teachers recognised as research guides

3.2.3.1. Number of teachers recognized as research guides

Answer before DVV Verification : 75

Answer after DVV Verification: 70

3.2.4 Average percentage of departments having Research projects funded by government and non-government agencies during the last five years

3.2.4.1. Number of departments having Research projects funded by government and non-government agencies during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
10	10	10	10	10

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
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5	5	2	2	0
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3.2.4.2. Number of departments offering academic programmes

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
10	10	11	11	11

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
12	10	11	11	11

Remark : The input edited w.r.t. 3.2.1 clarification document.

3.3.2 Number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development during the last five years.

3.3.2.1. Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year-wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
130	70	81	36	23

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
80	62	75	49	20

3.4.1 The Institution ensures implementation of its stated Code of Ethics for research through the following:

- 1. Inclusion of research ethics in the research methodology course work**
- 2. Presence of Ethics committee**
- 3. Plagiarism check through software**
- 4. Research Advisory Committee**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

3.4.2 Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/supervisors provided at 3.2.3 metric) during the last five years

3.4.2.1. How many Ph.Ds are registered within last 5 years

Answer before DVV Verification : 59

Answer after DVV Verification: 60

3.4.2.2. Number of teachers recognized as guides during the last five years

Answer before DVV Verification : 75

Answer after DVV Verification: 70

Remark : Observation accepted, edited accordingly.

3.4.3 Number of research papers per teachers in the Journals notified on UGC website during the last five years

3.4.3.1. Number of research papers in the Journals notified on UGC website during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
402	368	254	270	230

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
326	183	153	143	88

3.4.4 Number of books and chapters in edited volumes / books published per teacher during the last five years

3.4.4.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
91	45	48	37	20

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
10	14	18	30	0

Remark : Input edited w.r.t. clarification document. Only ISBN number has been considered.

3.5.1 Revenue generated from consultancy and corporate training during the last five years (INR in Lakhs).

3.5.1.1. Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
118.8	116.5	89.67	76.48	47.64

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

Remark : Observation accepted, edited accordingly.

3.5.2

Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs).

3.5.2.1. Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the last five years (INR in Lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
21.57	20.67	18.97	15.80	13.96

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
17.90	20.13	18.97	5.78	3.95

Remark : Observation accepted, edited accordingly.

3.6.2

Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognised bodies during last five years

3.6.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
117	156	16	6	6

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
6	1	1	0	1

Remark : 1) Input edited as per the e-copies of award letters. 2) Awards to the individuals will not be considered.

3.6.3

Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the last five years (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

3.6.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
28	14	10	18	10

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
29	10	08	18	10

3.6.4

Average percentage of students participating in extension activities listed at 3.6.3 above during the last five years

3.6.4.1. Total number of students participating in extension activities listed at 3.6.3 above year-wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
2124	1209	1200	2320	1200

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
2189	1107	1150	2320	1200

3.7.1

Number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

3.7.1.1. Total number of Collaborative activities per year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1458	903	271	246	161

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16

0	0	0	0	0
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Remark : Observation accepted, edited accordingly. DVV partner has asked for the e-copy of collaboration but HEI has not uploaded.

3.7.2 Number of functional MoUs with institutions of national, international importance, other institutions, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

3.7.2.1. Number of functional MoUs with institutions of national, international importance, other Institutions, industries, corporate houses etc. year wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
72	50	50	19	03

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
16	8	7	4	0

Remark : 1) Input edited w.r.t e-copy of MoU provided in clarification. 2) Those MoU are not considered which charges fees.

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

4.1.3.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 110

Answer after DVV Verification: 106

4.1.4 Average percentage of expenditure for infrastructure augmentation excluding salary during the last five years (INR in Lakhs)

4.1.4.1. Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
51.58	44.47	49.68	56.54	64.72

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
197	275	353	134	150

4.2.2	<p>Institution has access to the following:</p> <ol style="list-style-type: none"> 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases 6. Remote access to e-resources <p>Answer before DVV Verification : A. Any 4 or more of the above Answer After DVV Verification: A. Any 4 or more of the above</p>
4.2.4	<p>Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the last completed academic year</p> <p>4.2.4.1. Number of teachers and students using library per day over last one year Answer before DVV Verification : 2061 Answer after DVV Verification: 956</p> <p>Remark : Considered footfalls from 4/11/2019 to 8/11/2019</p>
4.3.3	<p>Bandwidth of internet connection in the Institution.</p> <p>Answer before DVV Verification : 250 MBPS Answer After DVV Verification: 250 MBPS</p>
4.3.4	<p>Institution has the following Facilities for e-content development</p> <ol style="list-style-type: none"> 1. Media centre 2. Audio visual centre 3. Lecture Capturing System(LCS) 4. Mixing equipments and softwares for editing <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: C. 2 of the above Remark : Observation accepted, edited accordingly.</p>
4.4.1	<p>Average percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the last five years</p> <p>4.4.1.1. Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in lakhs) Answer before DVV Verification:</p>

2019-20	2018-19	2017-18	2016-17	2015-16
1080	993	1264	1256	1864

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
544.01	349.08	526.15	545.90	320.96

Remark : Observation accepted, edited accordingly. Only repair & maintenance is considered.

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

5.1.1.1. Number of students benefited by scholarships and freeships provided by the Government year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1225	1568	2177	2309	585

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
1225	1568	2177	2309	669

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution and non-government agencies during the last five years

5.1.2.1. Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
287	398	144	177	25

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
287	398	144	175	25

Remark : The input edited as per the clarification document provided by HEI.

5.1.4 Average percentage of students benefited by career counseling and guidance for competitive examinations offered by the Institution during the last five years.

5.1.4.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
7322	7340	5798	6277	357

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
7120	5510	5226	5917	357

Remark : Input edited as per the clarification document.

5.1.5 The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

- 1. Implementation of guidelines of statutory/regulatory bodies**
- 2. Organisation wide awareness and undertakings on policies with zero tolerance**
- 3. Mechanisms for submission of online/offline students' grievances**
- 4. Timely redressal of the grievances through appropriate committees**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

5.2.1 Average percentage of placement of outgoing students during the last five years**5.2.1.1. Number of outgoing students placed year - wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
895	922	728	749	720

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
895	922	728	749	720

5.2.2 Percentage of student progression to higher education (previous graduating batch).**5.2.2.1. Number of outgoing student progressing to higher education.**

Answer before DVV Verification : 370

Answer after DVV Verification: 370

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

5.2.3.1. Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
93	21	25	2	6

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
35	16	13	9	4

5.2.3.2. Number of students appearing in state/ national/ international level examinations (eg: IIT/JAM/ NET / SLET/ GATE/ GMAT/CAT,GRE/ TOEFL/ Civil Services/ State government examinations) year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
93	21	25	2	6

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
93	21	25	2	6

Remark : 1) Input edited according to the document provided in clarification. 2) Considered clear copy of document indicating student's name, examination, date of result. 3) Edited as per the date provided in qualifying in state/national/ international level examinations.

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

5.3.1.1. Number of awards/medals won by students for outstanding performance in sports / cultural activities at inter-university / state / national / international events (award for a team event should be counted as one) year - wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
172	43	48	37	15

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
19	18	18	0	4

5.3.3	<p>Average number of sports and cultural events / competitions organised by the institution per year</p> <p>5.3.3.1. Number of sports and cultural events / competitions organised by the institution year - wise during the last five years.</p> <p>Answer before DVV Verification:</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>16</td><td>14</td><td>13</td><td>12</td><td>12</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>5</td><td>5</td><td>6</td><td>4</td><td>3</td></tr></table> <p>Remark : Input edited w.r.t clarification document. For year (15-16) : The event which was conducted on (8/4/15 - 11/4/15) is not considered.</p>	2019-20	2018-19	2017-18	2016-17	2015-16	16	14	13	12	12	2019-20	2018-19	2017-18	2016-17	2015-16	5	5	6	4	3
2019-20	2018-19	2017-18	2016-17	2015-16																	
16	14	13	12	12																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
5	5	6	4	3																	
5.4.2	<p>Alumni financial contribution during the last five years (in INR).</p> <p>Answer before DVV Verification : A. ? 15 Lakhs</p> <p>Answer After DVV Verification: A. ? 15 Lakhs</p>																				
6.3.2	<p>Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.</p> <p>6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>262</td><td>258</td><td>284</td><td>349</td><td>346</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2019-20</td><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td></tr><tr><td>21</td><td>9</td><td>11</td><td>36</td><td>3</td></tr></table> <p>Remark : Observation accepted, edited accordingly. Input edited as per considering only financial support to attend conferences / workshops and towards membership fee of professional bodies.</p>	2019-20	2018-19	2017-18	2016-17	2015-16	262	258	284	349	346	2019-20	2018-19	2017-18	2016-17	2015-16	21	9	11	36	3
2019-20	2018-19	2017-18	2016-17	2015-16																	
262	258	284	349	346																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
21	9	11	36	3																	
6.3.3	<p>Average number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the last five years.</p> <p>6.3.3.1. Total number of professional development /administrative training Programmes</p>																				

organized by the institution for teaching and non teaching staff year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
97	53	61	48	42

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
30	22	17	19	01

Remark : Input edited as per the link provided for detail report in clarification document.

6.3.4

Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

6.3.4.1. Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
279	276	260	240	220

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
158	142	79	28	17

Remark : 1) Input edited as per the clarification document provided by HEI. 2) Programs of duration less than one week is not considered. 3) One teacher attending more than one professional development Program in a year to is counted one only.

6.4.2

Funds / Grants received from non-government bodies, individuals, philanthropists during the last five years (not covered in Criterion III and V) (INR in Lakhs)

6.4.2.1. Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
729	579	562	114	78

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
74.85	66.41	62.82	38.76	034.10

Remark : 1) Sanction letters received from government bodies for development and maintenance of the infrastructure is not provided by HEI. 2) As per audited highlighted statement the input is accepted.

6.5.3	<p>Quality assurance initiatives of the institution include:</p> <ol style="list-style-type: none"> 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements 2. Collaborative quality initiatives with other institution(s) 3. Participation in NIRF 4. Any other quality audit recognized by state, national or international agencies (ISO Certification) <p>Answer before DVV Verification : All of the above Answer After DVV Verification: All of the above</p>
7.1.6	<p>Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions / awards 5. Beyond the campus environmental promotion activities <p>Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: A. Any 4 or all of the above</p>
7.1.10	<p>The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.</p> <ol style="list-style-type: none"> 1. The Code of Conduct is displayed on the website 2. There is a committee to monitor adherence to the Code of Conduct 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of programs offered year-wise for last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
12	11	14	17	18

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
12	11	14	17	18

2.1 Number of students year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5632	5732	5647	5512	5491

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5304	5463	5396	5608	5334

2.2 Number of outgoing / final year students year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1298	1324	1128	1354	1154

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1449	1484	1191	1370	1216

2.3 Number of students appeared in the examination conducted by the Institution, year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5632	5732	5647	5512	5491

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5304	5463	5396	5608	5334

3.1 Number of courses in all programs year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
380	412	353	284	77

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
588	580	406	282	171

3.2 Number of full time teachers year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
281	276	307	368	366

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
273	276	283	306	306

3.3 Number of sanctioned posts year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
281	276	283	306	306

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
285	281	317	362	358

4.1 Number of eligible applications received for admissions to all the programs year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
6195	6310	6211	6063	6040

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1469	1547	1449	1427	1589

4.4 Total number of computers in the campus for academic purpose

Answer before DVV Verification : 1600

Answer after DVV Verification : 1478

4.5 **Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
2094	2233	2544	2222	2880

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
1699.76	1849.91	1812.54	1777.68	1668.29