Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**NMAM INSTITUTE OF TECHNOLOGY (AUTONOMOUS)**
Name of the head of the Institution	**Dr. Niranjan N.Chiplunkar**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08258281263**
Mobile no.	**9611266900**
Registered Email	**principal_nmamit@nitte.edu.in**
Alternate Email	**nchiplunkar@nitte.edu.in**
Address	**NMAM Institute of Technology, Nitte Karkala Taluk**
City/Town	**Karkala**
State/UT	**Karnataka**
Pincode	**574110**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**20-Dec-2007**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. Subrahmanya Bhat K**
Phone no/Alternate Phone no.	**08258281248**
Mobile no.	**9449258142**
Registered Email	**subrahmanyabhat@nitte.edu.in**
Alternate Email	**subrahmanyabhat_2000@yahoo.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://nmamit.nitte.edu.in/img/iqac/AQAR%202018-19.pdf
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.nmamit.nitte.edu.in/academic-calendar.php

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.11**	**2017**	**30-Oct-2017**	**29-Oct-2022**

6. Date of Establishment of IQAC	**01-Feb-2001**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Feedback from all stakeholders collected, analysed and used for improvements	31-Jul-2019 1	18
timely submission of Annual Quality Assurance Report(AQAR) to NAAC:	18-Dec-2019 1	12
Regular meeting of Internal Quality Assurance Cell (IQAC):	13-Nov-2020 1	12
Academic Administrative Audit (AAA) conducted and its follow up action	03-Feb-2020 6	15
Participation in NIRF	11-Jun-2020 1	18
ISO Certification	25-Feb-2020 3	20
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	**3**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Regular meeting of IQAC 2. Compiled data for NIRF 2019 3. Timely completion ofAcademic and Administrative Audit 4. All academic activities are continuously

monitored. 5.Involvement and participation in several institute level
workshops/FDPs/Training programmes.

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

Plan of Action	Achivements/Outcomes
Measuring the attainment of Course outcomes of all courses of various programmes by the end of the semesters	HoDs submitted the course outcome attainments for odd semester and even semester
Faculty to improve quality of research and publications in a reputed Journals/conferences	Publications during the year improved significantly.
Academic and Administrative Audit to be conducted for the year 2019	Academic and Administrative Audit was conducted during 2nd week of January and February -3 days
To apply for QS E Lead Certificate	Applied and received on 1-6-2020
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing Council and Academic Council	20-Oct-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**No**

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

Year of Submission	**2020**

Date of Submission	**27-Jan-2020**

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

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Praptha:Accounting Software for student fee IonEMS: Students attendance, Internal assessment and semester end exam marks entry and Grade calculation. Nitte HRMS: Salary and Leave Management system of Institution employees. Koha Library Software, CDCS Centralized Data

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

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

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	BT	Biotechnology	01/06/2019
BE	CS	Computer Science & Engineering	01/06/2019
BE	CV	Civil Engineering	01/06/2019
BE	EC	Electronics & Communication Engineering	01/06/2019
BE	IS	Information Science & Engineering	01/06/2019
BE	ME	Mechanical Engineering	01/06/2019
BE	PH	Physics	01/06/2019
BE	CH	Chemistry	03/06/2019
BE	HU	Humanities	01/06/2019
BE	Math	Maths	12/06/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	All BE Programmes	01/06/2019	Employability Skill Development(IL001)	01/06/2019
BE	All BE programmes	01/06/2019	Enhancing Self Competence (HU311)	01/06/2019
BE	All BE programmes except Mechanical Engg.	01/07/2019	Operations Management and Enterpreneurship(ME8X28)	01/07/2019

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction

Nill	NIL	Nill

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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/08/2019
BE	Mechanical Engineering	01/08/2019
BE	Computer Science & Engineering	01/08/2019
BE	Information Science & Engineering	01/08/2019
BE	Electronics & Communication Engineering	01/08/2019
BE	Electrical & Electronics Engineering	01/08/2019
BE	Biotechnology	01/08/2019
Mtech	M.Tech in Construction Technology	01/08/2019
Mtech	M.Tech in Structural Engineering	01/08/2019
Mtech	M.Tech in Energy Systems Engineering	01/08/2019
Mtech	M.Tech in Machine Design	01/08/2019
Mtech	M.Tech in Power Electronivs	01/08/2019
Mtech	M.Tech in Digital Electronics & Communication	01/08/2019
Mtech	M.Tech in VLSI Design and Embedded System	01/08/2019
Mtech	M.Tech in Computer Science & Engineering	01/08/2019
MBA	Masters in Business Administration	01/08/2019
MCA	Masters in Computer Applications	01/08/2019

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Introduction to Yoga	01/08/2019	36
Principles to Physical Education	01/08/2019	41
Overview of Indian Culture and Arts	01/08/2019	37

Introduction to German Language	01/08/2019	Nill
Introduction to French Language	01/08/2019	30
Philosophy	01/08/2019	24
Environmental Hygiene, Sanitation and Waste Management	01/08/2019	15
Introduction to Japanese Language	01/08/2019	50
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Biotechnology Engineering	44
BE	Computer Science & Engineering	54
BE	Computer Science & Engineering	145
BE	Electronics & Communication Engineering	250
BE	Electrical & Electronics Engineering	65
BE	Information Science & Engineering	20
BE	Mechanical Engineering	172
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
Feed Back is taken in two methods. One, by department HOD at the end of each semester and will be analysed by the concerned HOD. After the analysis the same will be informed to concerned faculty with improvement suggested (if any). Dean (Academic) will take another feedback randomly during the semester from most of the classes. A report (SWOT Analysis) is prepared by Dean Academics about the Teachers' teaching performance. This report is given to the faculty personally during the interaction about the performance with the faculty. A copy of this report is sent to his/her personal file. 1. Feedback from students is collected

during mid-semester and analysed in order to know the gap between teaching and learning methodology and proper actions are taken up. Feedback taken up at the end of the course will be analyzed to find overall strength and weakness of the teachers. 2. Feedback from teachers is taken up at the end of the semester after analyzing the course-wise results and the data is used to frame the syllabus and major issues in the syllabus will be discussed in BOS meeting. 3. Feedback from employers is taken to introduce new courses and hands-on trainings to bridge the gap between industry and institutes. 4. Feedback from Alumni and parents will help us to fine-tune the curriculum to achieve excellence in education.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Mechanical Engineering	216	230	116
BE	Information Science and Engineering	216	228	191
BE	Electronics and Communication Engineering.	216	228	201
BE	Electrical and Electronics Engineering	72	90	80
BE	Civil Engineering	144	170	68
BE	Computer Science & Engineering	216	253	221
BE	Biotechnology Engineering	82	98	61
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	4198	783	247	61	308

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using	ICT Tools and resources	Number of ICT enabled	Numberof smart classrooms	E-resources and techniques used

	ICT (LMS, e-Resources)	available	Classrooms		
308	308	9	75	5	1

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

Yes. Student Monitoring Policy at NMAMIT I. Assigning Proctors to each class. A group of 32/33 students allotted to one faculty. II. Assigning Faculty Advisors for academically weaker students. As far as possible faculty handling a particular class have been allotted from that class only so that monitoring their wards becomes easy. III. Analyzing the Effectiveness of Faculty Advisor scheme after Semester End Examination. IV. Conducting meeting with Poor performers in Semester End Examination. V. Conducting meeting with Class Representatives to know their academic problems. VI. Arranging remedial classes for academically weaker students before and after their mid semester examinations in some subjects. VII. Counselling the students having attendance shortage well in advance. VIII. Counselling the poor performers after Mid – Semester Examination. IX. Dispatching the Progress Report to the Parents twice in a Semester. X. Arranging Parents – Teachers meeting every Semester.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1311	308	1:4

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
16	16	Nill	16	2

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Venkatesh Kamath	Professor	Best Paper Award
2020	Dr. Vinayaka B Shet	Professor	Young Researcher Award
2020	Dr. K Sreekantha	Professor	Certificate for Reviewing Research Papers
2019	Dr. Srinivas Pai	Professor	Participated in LEAP, IIT Kharagpur
2020	Dr. Srinivas Pai	Professor	Participated in LEAP, University of Cambridge, UK

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last	Date of declaration of

			semester-end/ year-end examination	results of semester-end/ year- end examination
BE	UG	odd/2019-20	17/12/2019	23/12/2019
Mtech	PG	ODD/2019-20	07/02/2020	12/02/2020
BE	UG	EVEN/2019-20	27/08/2020	02/09/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
5	4198	0.001

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://nmamit.nitte.edu.in/syllabus.php

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
PG	Mtech	PG	364	358	98.35
UG	BE	UG	1060	1058	99.81
PG	MCA	MCA	116	116	100

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://guru.nmamit.in/survey.html

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

Yes
Name of the teacher getting seed money
Dr. Surayanarayana K
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
Nill	NIL	NIL	Nill	NIL

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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	365	VTU BELAGAVI	1	1
Minor Projects	365	AICTE New Delhi STTTP	3	3
Minor Projects	365	AICTE New Delhi	1	1
Major Projects	365	Ritsumeikan University,Biwako Kustasu	5	5
Major Projects	1095	SERB	18.3	2.75
Major Projects	365	VGST	5	5
Major Projects	730	BRNS DBT	27.72	14.6
Major Projects	730	AICTE New Delhi	7.16	7.16
Major Projects	1095	AICTE New Delhi	18.4	9.34
Major Projects	730	AICTE MODROBS	11.1	8.9

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

0.11

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
One day Hands – on Workshop - Introduction to Patents	Departments of Humanities and Department of Biotechnology Engineering	18/03/2020

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category

Universal Innovative Leadership Award	Dr.K.V.S.S.S.S. SAIRAM	NIT-Patna Ministry of Electronics Information Technology, New Delhi.	23/02/2020		BEST RESEARCHER
Lifetime Achievement Award	Dr.K.V.S.S.S.S. SAIRAM	Scifax, Approved And Registered By Ministry Of Corporate Affairs (MCA), Govt. of India. Chennai.	12/01/2020		Innovative Research

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	WAAM TECHNOLOGIES	AUTOMATION	13/07/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	MOBISTAY PVT LTD	REAL ESTATE	31/08/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	eSTREE TECHNO SOLUTIONS PVT LTD	LAUNDRY SERVICE	03/08/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	ESENTE HEALTHCARE PVT LTD	HEALTHCARE	18/09/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	DLITHE CONSULTANCY SERVICE PVT LTD	WASTE MANAGEMENT	19/08/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	VANASSARA FOODS PVT LTD	FOOD PROCESSING	02/09/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	JAIVIK FUELS	RENEWABLE ENERGY	02/09/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	COLLEGE INNOVATORS EDU TECH	EDUCATION	02/09/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	APTSOFT TECHNOLOGIES	EDUCATION	13/07/2020
NITTE	ATAL INCUBATION CENTRE NITTE	NITI AAYOG	KAKUNJE SOFTWARE PVT LTD	HEALTH CARE	02/09/2020

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Mechanical	3
Electronics Communication	4
Computer Science	2
Biotechnology	1
Humanities	1
Physics	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Justice K S Hegde Institute of Management [Department of Business Administration]	2	1.5
International	Justice K S Hegde Institute of Management [Department of Business Administration]	5	2.5
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Biotechnology	1
ECE	1
ISE	2
Mechanical Engg.	2
CSE	2
Humanities	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Vital Sign Monitoring System1	Published	201941030703	09/08/2019
Secure method for protecting the sensitive information of the mobile users	Published	202041003464	07/02/2020

Wheel chair with double scissor jack mechanism for height adjustment for creeping patients	Filed	202041011863	19/03/2020
Sustainable Previous Alkali Activated Concrete Paver Block Pavement for Ground Water Recharge	Published	202041032488	21/08/2020
Calibrated Base Formers for Preparation of study Casts in Density (NU Base Former)	Published	202041000081	21/02/2020
SMITHA:Scalable Moduler Interconnect for 3 Dimensional High Performance Application-A new 3d topology for NOC based systems	Published	335402	20/03/2020

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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Experimental Investigation on Utilization of Waste Shredded Rubber Tire as a Replacement to Fine Aggregate in Concrete	Parameshwar N Hiremath., K Jayakesh., Roshan Rai., N Sujay Raghavendra., Subhash C Yaragal	Lecture Notes in Civil Engineering	2019	1	NMAMIT	Nill
A Study on Elastic Deformation Behavior of Steel Fiber-Reinforced	A Chandrashekara., Nitendra Palankar., L. Durga Prashanth., B. M.	Journal of The Institution of Engineers (India): Series A	2019	0	NMAMIT	Nill

Concrete for Pavements	Mithun., A. U. Ravi Shankar						
Link Layer Traffic Connectivity Protocol Application and Mechanism in Optical Layer Survivability Approach	Sairam, KVSSSS Singh, C	International Conference on Computer Networks and Communication Technologies (ICCNCT 2018)	2019	6	NMAMIT	Nill
Comparative Analysis of TCP Variants for Video Transmission Over Multi-hop Mobile Ad Hoc Networks	Shenoy, SU Kumari, MS Shenoy, UKK	International Conference on Computer Networks and Communication Technologies (ICCNCT 2018)	2019	2	NMAMIT	Nill
6LowPan-Performance Analysis on Low Power Networks	Nikshepa Pai, V Shenoy, UKK	International Conference on Computer Networks and Communication Technologies (ICCNCT 2018)	2019	4	NMAMIT	Nill
Experimental investigation on the suitability of flexible pressure sensor for wrist pulse measurement	Rao M S., Rao R.	Health and Technology	2019	2	NMAMIT	Nill
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self	Institutional affiliation as mentioned in

					citation	the publication
Promising PVA/TiO2, CuO filled nanocomposites for electrical and third order nonlinear optical applications	Shetty B G., Crasta V., Kumar N B R., K R., Bairy R., Shankaragouda Patil P.	Optical Materials	2019	Nill	Nill	NMAMIT
Effect of Na doping on photoluminescence and laser stimulated nonlinear optical features of ZnO nanostructures	Deekshitha U.G., Upadhya K., Antony A., Ani A., Nowak M., Kityk I.V., Jedryka J., Poornesh P., Manjunatha K.B.,	Materials Science in Semiconductor Processing	2019	Nill	Nill	NMAMIT
A study on various state of the art of the art face recognition system using deep learning techniques	Chokkadi S., Sannidhan M.S., Sudeepa K.B., Bhandary A.	International Journal of Advanced Trends in Computer Science and Engineering	2019	Nill	Nill	NMAMIT
Nano CuO: Electrochemical sensor for the determination of paracetamol and D-glucose	Avinash B., Ravikumar C.R., Kumar M.R.A., Nagaswarupa H.P., Santosh M.S., Bhatt A.S., Kuznetsov D.	Journal of Physics and Chemistry of Solids	2019	Nill	Nill	NMAMIT
Deep-learning framework	Bhandary A., Prabhu G.A., Raji	Pattern Recognition Letters	2020	Nill	Nill	NMAMIT

to detect lung abnormality – A study with chest X-Ray and lung CT scan images	nikanth V., Thanaraj K.P., Satapathy S.C., Robbins D.E., Shasky C., Zhang Y.-D., Tavares J.M.R.S., Raja N.S.M.					

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	19	566	42	3
Presented papers	30	31	Nill	Nill
Resource persons	4	18	10	5

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Third party inspection of Civil Engineering works	CMC,Udupi, TMC,Kaapu, TMC Karkala, Hindu Religion Endowment Department, PWP IWT Department, Karkala, Nirmithi Kendra, Udupi, PRED Udupi, KRIDL Udupi.	2966430

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
MBA	MSME Conclave Business Excellence Awards - December 07,2019	Karnataka Bank Ltd. MRPL	908700	231
MBA	One day	self	73500	38

	Intensive EDP on Neuro Marketing for Outstanding Customer Experience-10th January 2020			
MBA	Managing human resources in a disruptive world hr conclave 2020-	Nitte Education Trust	0	0
MBA	Study on Market Potential for Jackfruit value added products 2019-2020	NIAM, Jaipur	600000	0
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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation	Youth Red Cross wing and Rotary Club Nitte	15	300
Swatch Bharath	NSS Village Panchayath, Nitte	30	1100
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Swachhta Action Plan	Swachhta Action Plan Institute	Mahatma Gandhi National Council of Rural Education	25
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Blood Donation	Youth Red Cross wing	Annual Blood Donation Camp	15	300
Swachh Bharat Abhiyan	NSS	Swachh Bharat Abhiyan during Gandhi Jayanthi	30	1100

Swachhta Action Plan Video recording	MGNCRE	Video Recording of daily activities of 2 adopted villages which will be used as part of academic courses by MGNCRE.	3	25
Swachhta Action Plan Survey activity	MGNCRE	Documentation of the efforts and success in these 2 adopted villages in the form of case study.	3	25
Swachhta Action Plan	MGNCRE	Adoption of 2 villages for Comprehensive Sanitation Management and achievement of 100 sanitation	3	25
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Sakura – Student exchange program	03	Institution	10
Sakura – Student exchange program	01	Institution	90
Product Development	NMAMIT: Dr. Rekha Bhandarkar & KSHEMA Nitte Deemed to be University	NA	365
Product Development	NMAMIT: Dr. Rekha Bhandarkar & KSHEMA Nitte Deemed to be University	NA	365
Prototype Development for Automatic Inhalation resuscitator	NMAMIT: Dr. Durgaprasad, Mr. Prajwal Hegde N & KSHEMA Nitte Deemed to be University	NA	365
Prototype Development for Galvanic Skin Response Based Approach for the Examination of	NMAMIT: Dr. K. S. Shivaprakasha, Dr. Durga Prasad, & KSHEMA Nitte Deemed to be University	NA	365

Emotional State				
Research	Staff	VGST, Government of Karnataka		730
Research Fellowship	02	Funding from JST, Japan		90

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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
On The Job Training	Placement Training	Dlithe Consultancy Services Private Limited, Bangalore	23/01/2020	27/01/2020	Students
Internship	Sunlight Luminaires	Sunlight Luminaires, Mangalore	15/12/2019	02/01/2020	LAKSHMIKANTH BHARADWAJ G
Internship	Sunlight Luminaires	Sunlight Luminaires, Mangalore	14/05/2020	25/05/2020	LAKSHMIKANTH BHARADWAJ G
Internship	33/11kvstation, MESCOM	Mangalore Electricity Supply Company Limited (MESCOM), Kalasa Koppa Substation	04/07/2019	03/08/2019	JEEVAN D NAIK
Internship	Sunlight Luminaires	Sunlight Luminaires, Mangalore	15/12/2019	02/01/2020	SHETTY SAHITH SUDHIR

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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
CloudE, Mysuru	30/10/2019	To train students	22
STEPS KNOWLEDGE SERVICES PVT. LTD	23/01/2020	Establishment of centre of excellence, lab based courses using TI platform, FDP, workshop,	9

		internship, projects and training programs.	
Ritsuimeikan University, Japan	07/01/2019	Research Fellowship	1

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
1255	1200

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Developed S/W in Foxpro Koha Open source S/W	Fully	Koha:17.00 Foxpro:1990	1990
Developed S/W in Foxpro Koha Open source S/W	Fully	Koha:17.00 Foxpro:2012	2012
Developed S/W in Foxpro Koha Open source S/W	Fully	Koha:17.00	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	85342	28200000	1105	400000	86447	28600000
Reference Books	6459	3200000	236	300000	6695	3500000
e-Books	31171	3400000	21113	1500000	52284	4900000
Journals	260	700000	260	800000	520	1500000
Digital Database	1367896	7000000	50530	800000	1418426	7800000
CD & Video	2736	5400000	Nill	Nill	2736	5400000
Weeding (hard & soft)	9800	1900000	4500	600000	14300	2500000

Others(specify)	Nill	Nill	Nill	Nill	Nill	Nill

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr Anees Jose	Projections of Solids	You Tube	01/10/2019

No file uploaded.

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	2747	34	2	1	1	9	13	310	0
Added	225	1	0	0	0	0	0	690	0
Total	2972	35	2	1	1	9	13	1000	0

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

1000 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Sowparnika Audio - Video Recording Hall	http://guru.nmamit.in

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
650	650	950	946

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

At the beginning of every financial year, budget for maintenance of campus facilities, sports facilities is prepared and approved by Governing Council. According whenever the need for maintenance arises, the resident engineers office prepares a plan and estimate which is approved by the Institute provided cost is less than the budget approved. For computers, elevators, Generators sets and aircondition units. Annual maintenance control is signed with the vendors after proper negotiation and evaluation.

http://nmamit.nitte.edu.in/documents-for-information.php

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Scholarship	601	47333096
Financial Support from Other Sources			
a) National	Fee Concession	2218	57149502
b)International	0	Nill	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Lateral entry students' Orientation Programme to help lateral entry students to boost morale, belong, know where to seek help and work on deficiencies	15/01/2019	139	Prof. SKS with the help of 20 trained senior volunteers
Prof. SKS with the help of 20 trained senior volunteers	26/03/2019	71	Pro. Shalini K Sharma
Addressing 3rd year CSE students on 'How to prepare for forthcoming campus placements?'	26/03/2019	225	HoD, CSE Mr. Bharath G. Kumar Dr. Roshan Fernandes
GitHub Workshop	05/04/2019	17	Mr. Mahammad Ziya, Final ISE student
Workshop on Linux	06/04/2019	17	Mr. Glenn Thomas Alex Mr. Rishabh Shah (Nutanix selects -Final year CSE)
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive	Number of benefited students by career	Number of students who have passedin the comp. exam	Number of studentsp placed

		examination	counseling activities		
2019	Orientaton to CAT-20, GRE Scholarship Test on 16th 17th August 2019 by TIME, Mangalore Centre	Nill	30	Nill	Nill
2019	Seminar on Career Oppor tunities Overseas on 24.10.2019 by Planet Education, Udupi	Nill	30	Nill	Nill
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Sap Labs	7	1	Nill	Nill	Nill
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E. ECE	ECE	University College Dublin, Ireland	MSc in Data Computa tional Science
2019	1	B.E. ECE	ECE	University Admissions in Sweden	Master Programme
2019	1	B.E. ECE	ECE	IIT, Delhi	Master of Science (Research)

2019	1	B.E. ECE	ECE	Northumbria University, Newcastle, England	MSc in International Business Management with Advance Practice
2019	1	B.E. ECE	ECE	University College Dublin, Ireland	MSc in Data & Computational Science
2019	1	B.E. ECE	ECE	Manipal Institute of Management, Manipal	MBA in Health care Management
2019	1	B.E. ECE	ECE	NITK, Surathkal	M.Tech. in Nanotechnology
2019	1	B.E. ECE	ECE	University of Southern California	MSc in VLSI Design
2019	1	B.E. ECE	ECE	New Jersey Institute of Technology	MSc in Electrical Engineering
2019	1	B.E. ECE	ECE	NMIMS (Deemed to be University), Mumbai	MBA

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	2
GMAT	1
GRE	55
TOFEL	54
Any Other	6
TOFEL	Nill
Any Other	Nill

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

Activity	Level	Number of Participants
INCRIDEA	INSTITUTE	4500
VTU Power Lifting Men Women Coaching Camp	To participate in All India Inter University Competition	8
VTU Power Lifting Men	Single Zone	153

Women competitions and Selections		
VTU Cross Country Men Women Coaching Camp	To participate in All India Inter University competitions	12
VTU Men Basketball Tournament	Mangaluru Zone	4
VTU Badminton Men Women Tournament	Mangaluru Zone	11
VTU Men Hockey Tournament	Mangaluru Zone	7
VTU Men Football Tournament	Mangaluru Zone	17
VTU Women Volleyball Tournament	Inter Zone	7
VTU Women Volleyball Tournament	Rest of Bengaluru Zone	12

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Silver medal	National	1	Nill	4NM14ME063	Mr. Hemanshu M Hegde
2019	Overall Runners	National	Nill	1	4NM17ME197	Aryaman Vartak
2019	Overall Runners	National	Nill	1	4NM17CS144	Rakshith Poojary
2019	Overall Runners	National	Nill	1	4NM16EC137	Shreyas BS
2019	Overall Runners	National	Nill	1	4NM16CS083	Nikhil Y Devadiga

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

The institution has a practice of electing student representatives for each class by the students of that particular class. They will coordinate all the academic activities and other facilities required for the conduction of classes. The students themselves select active student members for the core group to organize all activities in the campus including, co-curricular and extracurricular activities. The activities of this core group would be supported by the advice of Dean(Student Welfare) and participation of all the faculty members. The required funding for conduct of such events is met by the management of the institution.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?
Yes

Wenamitaa, NMAMIT alumni association is for all alumni of the Institute. It aims at reconnecting Alumni with alma mater and each other. It creates opportunities for alumni to visit their alma mater, experience nostalgia, feel at home, network to support each other, observe the changes in the institute and share their progressive ideas towards the growth of the institution. The association though organising Alumni invited talks, Reunions and Meets since 1993, was formally registered in the year 2013 (Registration Number : UDP-874-2013-14). The association has got two chapters i.e., Middle East Chapter called MeNMAMIT started in 2011 and Bangalore Chapter started in 2016.

5.4.2 – No. of registered Alumni:
20304

5.4.3 – Alumni contribution during the year (in Rupees) :
218829

5.4.4 – Meetings/activities organized by Alumni Association :

1. Global Alumni Meet Silver Reunion of 1990-94 Batch on 26-07-2019 2. Annual General Body Meeting-2019 on 26-07-2019 3. Placement Training by Mr. Ajay on 03-08-2019 4. Technical Talk by Ms. Shreedhanya Marathe on 07-08-2019 5. Technical Talk by Mr. Ankish Jain on 26-08-2019 6. 1991 – 95 Batch Alumni Visit on On 20th December, 2019 7. Technical Talk by Mr. Ramanand Bhat M. on 02-01-2020 8. Technical Talk by Mr. Hemanth Kumar K. on 16-01-2020 9. Mr. Sanjeeth Shetty Award was held on the 14-02-2020

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

1. Every department proposes its yearly budget requirement which is finalized after discussion with the college management. 2. All purchase are recommended by the department by calling quotations and institute level purchase committee approves the same.

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

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	Students are admitted based on established government policy with students getting valid ranks in CET, COMEDK PGCET . NRI and PIO students and J K quota students are also admitted against the quota prescribed in the government policy.Management Quota admissions also happens through merit.
Industry Interaction / Collaboration	The Institute has very active MoUs with many Industries for faculty and student internship. Student internships

	are being provided for selected students from among the campus placed students. Students who are not placed are also encouraged to take up internships in the eighth semester to not only get training but also for project work. This is called FAST TRACK SEMESTER and the results from this effort in the last few years has been very encouraging, with good number of students securing internships and placements in reputed companies. There is very good interaction with a few Japanese companies and a Centre of Excellence (CoE) by 'Kobayashi Create' has been established for market research. Industry experts are present on all Board of Studies, Academic Council Governing Council.
Human Resource Management	The Institute has a well-defined HR and promotion policy. 104 faculty members are with Ph.D. qualifications and 84 faculty members are pursuing their Ph.D. All Faculty are encouraged to do their Ph.D. Faculty and staff of the institution are given free medical and transport facilities. They are also provided with state-of-the-art sports facilities like gymnasium, sports ground etc. for playing sports during the evenings.
Library, ICT and Physical Infrastructure / Instrumentation	Institute continues to be a member of DELNET. The library possesses more than 70000 volumes of books in print and another 5000 e-books. A digital library has been established with all standard E-resources including NPTEL videos, DVDs of lectures from leading repositories of the world as well as lecture videos by internal faculty are available. The library also subscribes to total 260 printed technical journals including National and International publications. The library is member of DELNET, NDL, VTU consortium through which it gives access to millions of e-resources on all the engineering disciplines. Every year about 60 lakhs is spent on library resources.
Research and Development	Separate Centre for Research and innovation has been established. The Dean (RD) manages the regular R D related activities of the institution. Research incentives are provided to the faculty for publications, application and obtaining patents, obtaining external funding, review of technical

	papers of reputed journals and conferences. There has been a considerable increase in the funded projects, patents and publications of papers by the faculty. Efforts are also being made to increase international collaborations.
Examination and Evaluation	Questions in the question papers are framed strictly based on Bloom's taxonomy. From the academic year 2018-19, based on the AICTE Examination Reforms Manual, PO and CO are included in the question papers of Mid Semester Examination (MSE) and Semester End Examination (SEE). Proper rubrics are developed and used for seminar and project evaluation. Equal weightage is given both for Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE). Evaluation involves both internal and external components.
Teaching and Learning	Teaching and learning is student oriented. Efforts are being made to use different pedagogies like project-based learning, active learning etc, with establishment of labs in various departments. Faculty and students are encouraged to use E-resources. Faculty are encouraged to produce video lectures, which are made available to the students to support 'self-directed learning'. Faculty are encouraged to undergo one MOOC course every year. There has been effective use of online learning platforms like ZOOM, GOOGLE MEET, WEBEX etc. and institution purchased a commercial platform for conduction of online classes, evaluation, seminar and project presentation. Further along with these platforms, other platform like SKYPE, YOUTUBE etc., are being used for dissertation presentations, webinars, e-conferences etc.
Curriculum Development	Every year, the Curriculum is upgraded and modified by the BoS and includes people drawn from Industry, Alumni and leading Institutes. They discuss and formulate a curriculum, which is in line with the current trends. All the departments are encouraged to offer a basket of electives with different specializations and the students can select any elective / combination of electives to fulfill the number of program elective requirements anytime

E-governace area	Details
from fifth semester onwards. The AICTE Model Curriculum has been implemented from 2018-19 batch onwards. Due to the pandemic, it has been advised that all students of 2nd, 3rd and 4th year need to register for at least one NPTEL course compulsorily during the academic year 2020-21.	

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

E-governace area	Details
Planning and Development	Activities has been initiated in this regard.
Administration	HR office software is used for online leave management pay bill generation.
Finance and Accounts	PRAPTHA (for collection) NACS is used for fee payment. fee.nitte.edu.in is used for online payment by students/parents.
Student Admission and Support	MIS is used for student Admission, attendance marks entry. Parent login- under student info tab in the college website is used to view performance of the ward. Student app is for students to view profile, attendance marks and progress report.
Examination	IONEMS software used for Student registration, Hall ticket generation, declaration and publication of results printing of Grade cards.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Sreekantha	To attend FDP in Artificial Intelligence	Nil	Nill
2019	Dr.Ravi B	To attend FDP in Artificial Intelligence	Nil	Nill
2019	Ms.Akshaya S	To attend present her paper titled "A novel method to recognize object in Images using Convolution Neural Networks" in	Nil	Nill

| | the 3rd International Conference on " Intelligent Computing and Control Systems (ICICCS 2019)" | | | | | |

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Training on "Centralized Data Capturing System"	Nil	07/08/2019	07/08/2019	21	Nill
2019	An exclusive talk on "Investors Education Programme" "Financial Planning"	Nil	22/09/2019	22/09/2019	49	Nill
2019	Talk on "Dr. A.P.J Abdul Kalam ISRO"	Nil	24/09/2019	24/09/2019	49	Nill
2019	Hands on Training on the Software WXMAXIMA	Nil	22/11/2019	22/11/2020	49	Nill
2019	"3S – Strengthening Support Staff" 3 day training programme for supporting staff	Nil	03/02/2020	05/02/2020	35	Nill

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Four Days online FDP on "Applied Machine Learning using Python	240	09/06/2020	12/06/2020	4
Five Days FDP on "Hands on Training on use of Digital Board Pedagogical Techniques" (online)	100	01/06/2020	13/06/2020	13
Five Days FDP on "Embedded Systems and Wireless Sensor Networks for Internet of Things"	30	20/01/2020	24/01/2020	5
Two days FDP on "New Education Policy as applied to Civil Engineering Course"	26	12/06/2020	13/06/2020	2
Ten days FDP on "Embedded System Design Aspects Using MC56F84789 Controller	10	22/06/2020	03/07/2020	13

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
16	16	32	32

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Provident Fund, Gratuity, Pension, Free Transportation, Medical Facility, Fee Concession, Maternity Leave, EDLI and	Provident Fund, Gratuity, Pension, Free Transportation, Medical Facility, Fee Concession, Maternity Leave, EDLI and	Economic transport facility, exclusive and modern sports facilities, merit based scholarships, financial assistance,

| Personal Accident Insurance, Loan facility, Deputation to higher study | Personal Accident Insurance, Loan facility, Deputation to higher study, ESI, Earned Leave Encashment. | free / subsidised medical facilities through health centres and associated hospital |

6.4 – Financial Management and Resource Mobilization

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

Internal financial audit is carried out regularly by internal auditors. Year end audit is done by external agency.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NMAMIT Alumni Association Project funding Silver medals Prize money contributed by individuals	39264	Student projects and Academic achievement prizes
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6.4.3 – Total corpus fund generated

50000000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Nill	Yes	Advisor Adjunct Professor, Dept. of Mechanical Engg.
Administrative	No	Nill	Yes	Advisor Adjunct Professor, Dept. of Mechanical Engg.

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

There is no formal Parent-Teacher Association. But Dean (Academics) and First Year Coordinator conduct regular meetings with parents every semester to discuss academic issues. The focus of these meetings is particularly more on academically weak students. The grievances of the students / parents are discussed and remedial measures are taken to improve the academic performance of these students and also provide them necessary counselling and support.

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

1. Feb 3-5,2020 3-Day Training for Office support staff – Personal Assistants to Institution Administrators No of Participants – 20, Modules: Right usage of

English, nuances of Grammar and Pronunciation in oral and written form of formal communication Workplace etiquette, appropriate grooming, being empathetic and adhering to time management skills at the workplace 2. May 11-23 2020 2-Week training for Lab Technical Support Staff No. of Participants -20, Modules: Aspects of Personality, constructive transaction with the students' and nuances of English language, maintaining all types of lab records such as the stock register. 3. September 22-25 2020 4-Day workshop 'Managing to Mentoring' for the hostel managers and supervisors No. of Participants – 12, Modules: Dynamic needs of the hostel administration, stress management skills and managerial skills.

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

To promote improved teachinglearning process research and development and industry requirements, new labs have been developed either from in house funding or external funding in collaboration with nearby industry. An Institute level AICTEISTE funded FIP was conducted in 2018 to facilitate better undertaking of accreditation process. All departments have been taking internal initiatives to streamline the process of data gathering for accreditation purpose and regular meeting was conducted to know the readiness for next accreditation cycle. An Institution wide Central Data Capturing System (CDCS) has been designed, developed and implemented inhouse to capture all data regarding faculty, Student teaching process, RD etc to facilitate centralised data capture, which can be used for NBA, NAAC, NIRF ranking etc. Serious efforts are being made to encouraging the culture of entrepreneurship through a Govt. aided Incubation center, where start ups of our students are being promoted. In the last one year, the institute has taken several initiative for entering industrial collaboration especially with Japan Industries and Universities for Research, Placements, Internship etc.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Talk on "Outcome Based Education – Examination Reforms Policy" by Dr. Srinivasa Pai P Dr. K.S.Bhat	29/06/2020	29/06/2020	29/06/2020	50
2019	5 days Faculty Workshop on "Accreditation and Leadership"	23/12/2019	23/12/2019	28/12/2019	35

2020	Short course on "Online learning – theory and practice by Dr. Srinivasa Pai P	21/09/2020	21/09/2020	23/09/2020	27
2020	Impartus online teaching training for all faculty	28/08/2020	28/08/2020	29/08/2020	308
2020	webinar on AICTE Examination Reforms Policy – A Review from NMAMIT on 26-05-2020 by Dr. Srinivasa Pai P	26/05/2020	26/05/2020	26/05/2020	314
2020	AICTE Examination Reforms Policy – A review Writing COs and mapping PO and COs (Dept. of Mech. Engg.)	01/06/2020	01/06/2020	01/06/2020	50
2020	AICTE Examination Reforms Policy – A review Writing COs and mapping PO and COs (Dept. of Civil. Engg.)	12/06/2020	12/06/2020	12/06/2020	40
2020	AICTE Examination Reforms Policy – A review Writing COs and mapping PO and COs (Dept. of ISE Engg.)	17/06/2020	17/06/2020	17/06/2020	25

2020	AICTE Examination Reforms Policy – A review Writing COs and mapping PO and COs (Dept. of EC Engg.)	19/06/2020	19/06/2020	19/06/2020	50
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Mission Prerana @ Induction	01/08/2019	16/08/2019	450	552
Womania 2020 – Celebrating International Women's day by the MBA Department	11/03/2020	11/03/2020	180	155
Women's Day Celebration in the college level	12/03/2020	12/03/2020	100	5

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
As a part of environment friendly initiative, the college conducted the following activities: a. Extraction of Biodiesel from waste cooking oil. b. Extraction of Biodiesel from seeds of Biofuel plants like Honne, Simaruba, Hippe etc- c. 18 kW Solar Panels installed in Research and Innovation Centre. d. Solar Water heaters installed in all the hostels. e. Biogas plant. f. Water Recycling unit in college, hostels and Staff Quarters. g. Executed Swachh Bharat Abhiyan. h. Planting of the saplings (around 250 each) were done on the World Environmental Day and Biodiesel day. i. Executed 'One Student One Tree' campaign by planting different variety of saplings. j. Celebrated World Biofuel day by planting 200 saplings. k. Conducted a Workshop on 'Solar light assembling'. l. On October 02, 2019, Nitte village cleaning as an initiative was conducted by "Samvedana – The social sensitivity wing" m. AICTE funded Centre for Environmental Monitoring and studying pollution in the western Ghat foot hills and in Nitte/Udupi/Mangalore surroundings is being developed. n. Topics on latest emission standards is included in some of the courses like IC Engines and is planned to be included in Automotive Engineering Lab. o. The rubrics for evaluating UG/PG projects focus on the PO requirement of environmental sustainability and consciousness and society related projects. p. Blood donation camp is organised by AIMS every year.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5
Provision for lift	Yes	5
Ramp/Rails	Yes	5
Braille Software/facilities	Yes	Nill
Rest Rooms	Yes	5
Scribes for examination	No	Nill
Special skill development for differently abled students	No	Nill
Any other similar facility	Yes	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	Nill	27/08/2019	1	North Karnataka Flood Relief Collection	An amount of Rs. 15,181/- was collected and given to Karnataka Chief Minister Relief Fund as a humanitarian gesture providing financial assistance to NK people.	24
2020	1	Nill	16/01/2020	1	Blood Donation Camp (An annual event)	NSS and AIMS team of NMAMIT in association with Rotary	431

2020	1	Nill	25/01/2020	1	National Voters Day	The significance of vote casting was explained to the first year BE students	70
2019	1	Nill	07/08/2019	1	A technical talk by Mr. Sabyath P. Shetty, Assistant Professor, Dept. of Civil Engineering	Before you Complete engineering	75
2019	1	Nill	14/08/2019	1	A Workshop by Mr. Kishore K.N, Project planning Scheduling Engineer, NICMAR-PUNE	Project Management Tools Training	145

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Ksheeraambudhi	30/07/2020	Translation of some sacred Hindu texts from Sanskrit to English, Hindi and Kannada by Dr. Diwakara Bhat, Chief Librarian, NMAMIT, Nitte
Ksheerasaara	30/07/2020	Translation of some sacred Hindu texts from

		Sanskrit to English, Hindi and Kannada by Dr. Diwakara Bhat, Chief Librarian, NMAMIT, Nitte
Academic Calendar	01/08/2019	All academic related (w.r.t. department) code of conduct is presented here.
Academic Calendar	01/09/2020	All academic related (w.r.t. department) code of conduct is presented here.
Service Regulation Book Students Rights and Responsibility policy	01/06/2020	Code of conduct for employees Code of conduct for students

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Anti Ragging Awareness program	14/08/2019	14/08/2019	125
Road Safety	28/11/2019	28/11/2019	90
Business Ethics and Corporate Governance Course	01/07/2019	30/11/2019	177

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

1. Planting of the saplings (around 250 each) were done on: a. World Environmental Day b. Word Biofuel Day. c. Green Audit – Fauna details of the campus has been recorded and has been brought out as a bound volume d. Biodiesel from used cooking oil is being produced and used in a few college buses. 2. Celebrated Jal Diwas (22/07/2019) by organising a talk on "Importance of Rain Water Harvesting" by Dr. A. N. Parameswaran, Director, Industry-Institute-Collaboration, NMAMIT, Nitte. 3. Organized "Tree Plantation" under "MY EARTH – MY DUTY" programme (August 21, 2019). About 265 samplings (Honne, Simarouba, Hippe, Amura etc) were planted in the College premises with the active participation of students and faculty members. 4. To promote "Swachh Bharat Abhiyan", on Gandhi Jayanthi (02/10/2019), agriculturist Mr. Ashok Adyantaya delivered a talk highlighting the significance of "Swachh Bharat Abhiyan" followed by Oath taking ceremony. The students and staff members also actively participated in collecting wastes littered in and around the college premises to make the campus clean and eco-friendly. 5. As a result of attaining 'Swachh Campus' recognition from MHRD-New Delhi, the Ministry had selected NMAM Institute of Technology under MGNCRE's 'Swachhta Action Plan 2019', promoting Swachhta in the community. The task on hand was to achieve 100 in the Practices of Comprehensive Sanitation Management (including ODF) in two adopted villages with which the institution is already engaged with. NMAMIT, under the guidance of NSS unit, could achieve 100 sanitation for Nitte and Kallya villages - the two Villages adopted under the Comprehensive Sanitation Management scheme by Nitte Education Trust. 6. A special talk on "Waste Management" to college students and a COVID related awareness program on "Hand washing after using toilet" to school students were also organised. 7. Vanamahothsava was celebrated by the departments such as Civil engineering, Information Science and Engineering, Mechanical Engineering, MBA, etc under "One Student One Tree"

programme involving Faculty members and students on August 21, 2019 near Lamina cross-Nitte. 8. Established Biodiesel demonstration plant in the campus. There are 3 labs in this area belonging to Mechanical department https://www.nmamit.nitte.edu.in/department-mechanical.php#Research 9. LED Tubes have been installed in all new buildings. 10. Solar Water heaters are installed in all the hostels. 11. Solar Panels have been installed in Research Innovation Centre building. 12. Waste Water treatment units in all the hostels. 13. Water harvesting in College hostel buildings. 14. Planting of saplings twice in a year during World Environment Day and World Biofuel Day. 15. Separate bins are placed in every floor to collect bio-degradable waste and plastic waste. 16. During Mission Prerana @ Induction, a lecture was delivered on waste management and ill effects of various types of wastes and pollution such as e-waste

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

? Best Practice-1 • Title: Project Based Learning (PBL). • Objective: To provide an opportunity to the students for experiential learning • Context: Students normally indulge in rote learning to score marks in the examinations without understanding the concepts. To make the students experts in the subjects they study, the Board of Studies suggested identifying at least a few courses as PBL. Power System Analysis and Stability (PSAS) is one such course. • Practice: During the entire semester, PSAS was taught as a PBL course. The entire class of students was divided into teams of four people each and a relevant project was assigned to them to complete and showcase it before the end of the semester. The individual projects were evaluated for 20 marks. • Evidence of Success: Three technical papers were presented in the National Conference on Power System Operation and Control – 2020 (NCPOC-2020) organized by Acharya Institute of Technology, Bangalore in the month of July 2020 and later published in the Journal of Emerging Technologies an Innovative Research (JETIR) (www.jetir.org) ISSN-2349-5162, October 2020, Volume 7, Issue 10. • Problems Encountered and Resources Required Since the students were novice in the subject, the subject had to be taught starting from scratch. PSCAD was used to simulate the projects. ? Best Practice-2 • Title: Simulation based teaching • Objective: To ensure that students have an opportunity to integrate, synthesize and apply all their previous learning both within and outside the management classroom. • Context: The Objective of the Capstone Business Simulation Program, Everest, patient zero, IBM Blumix is that a simulation game gives participants an opportunity to integrate, synthesize and apply all their previous learning both within and outside the management classroom. Simulation games benefits the students by integrating their entire learning of the MBA Program and enhancing their analytical ability along with business acumen, which prepares them to be competent business managers in the corporate world. • Practice: IBM Innov 8- Business Process management Simulation EM I: Each student will individually simulate and learn concepts through simulation using INNOV 8 supply chain management simulation game and other games for operations management. They have to critically analyze and appreciate different aspects of business process management. Integration of Supply chain concepts with Bloomberg: This assignment will be executed by using Bloomberg terminal. The Student needs to use the code <SPLC> and then demonstrate the understanding of the subject (Supplier Relationship and Supplier Scoring and Assessment) using Bloomberg. The student needs to submit a report with plagiarism check for the same. This assignment will be executed by using Bloomberg terminal. The Student needs to use the code <BMAP> and then demonstrate the understanding of the subject (Maritime Logistics) using Bloomberg. The student needs to submit a report with plagiarism check for the same. The investment challenge: This challenge is done through the Bloomberg TMSG function. TMSG is a professional idea generation platform used by traders and analysts to share their investment

ideas for external or internal evaluation. Through this, you would be using an industry-standard platform. TMSG provides a simulated environment that is identical to the real investment management. The participants are required to make investment decisions using real data, news and company reports, the same as a professional equity analyst. Capstone Simulation: The Capstone Business Simulation Program is a world-renowned Simulation game that gives participants an opportunity to integrate, synthesize and apply all their previous learning both within and outside the classroom. Student teams will be making business decisions over multiple time periods – and examine their impact on the teams' qualitative and quantitative performance. Each student be assessed based on their contribution to and their team's performance in the Capstone business simulation. Additionally students will be assessed individually on their business acumen as learned in the simulation along with their business knowledge utilizing the Comp-XM online 'final exam'. The Capstone and the Comp-XM enable both team benchmarking and individual comparisons on an International basis with other programs that also utilize the Capstone and the Comp-XM. The course utilizes a computer-based simulation as the core teaching platform. Working in teams, students make strategic and tactical decisions in all domains of the business: product design and development, marketing and sales, human resources and employee relations, operations and production, management and finance – with an overlay of corporate governance and strategic management. Upon completion of the course, students should have developed a workable, sound and integrated comprehension of business and the strategic management process and be able to apply this knowledge. The Leadership and Team Simulation Everest V 3 from Harvard Publishing Division, uses the context of a Mount Everest expedition to reinforce student learning in group dynamics and leadership. a. This multi user online simulation presents a series of problem solving and decision-making challenges to student teams in the classroom. b. Team members analyze information on weather, health conditions, supplies, goals, and hiking speed, and determine how much of that information to communicate to their teammates. c. Students can experience how teams make complex decisions when critical information is distributed unevenly among members and when members have partially conflicting goals • Evidence of Success: The implementation of simulation-based teaching has resulted in students benefitting with enhanced application of management concepts. For instance: the average marks that the students are securing in Capstone has now crossed the international benchmark of 700. • Problems Encountered and Resources Required: Adjusting to new practice (Faculty and students) –With constant persuasion, training and by mentoring, both the faculty and students have benefitted. ? Best Practice-3 • Title: New methods and tools adopted for Online teaching-learning and assessment during the pandemic situation • Objective: To impart education in an online environment (virtual) • Context: The need of the hour during the COVID-19 outbreak in the country which enforced a nation-wide lockdown during March 2020 thereby shutting the schools and colleges was to ensure that the teaching-learning process was not affected because of it and that there was a continuous flow of information between teachers and students. This was an unexpected situation and the faculty members were relatively new to accessing online platforms. Several online teaching learning tools were investigated to suit the best tool and method that can be adopted to impart education in an online mode. • Practice: Several online platforms including Moodle (LMS), Google Meet, Zoom and the like were tried and implemented for the classroom lecture delivery. Multiple choice questions were used for assessing the understanding level of the topics covered during online lectures. Along with the online platforms, several pedagogical techniques were also implemented successfully. • Evidence of Success: The implementation of online teaching learning and assessment fascinated the students and it is evident from the feedbacks taken from them. Also the faculty members were actively involved in trying out various online teaching platforms and pedagogical tools. • Problems

Encountered and Resources Required Adjusting to new practice (Faculty and students) – Since it was a first-of-the-kind situation to both faculty and students and also which was unavoidable, initially both students and faculty had difficulty in adapting to new practice. With constant persuasion, training and by understanding the importance, all are well versed with the system. o Best Practice- 4 Active learning Mechatronics • Title: Active learning on Mechatronics. • Objective: To impart practical experience on automation technology to the students. • Context : Mechatronic course will give theoretical knowledge to the students. However, current scenario requires industry ready engineers. However to gain the practical exposure on latest automation technology and to learn fundamental concepts effectively, active learning in mechatronics lab is introduced. • Practice: Active learning on mechatronics has been set-up as a part of Memorandum of Understanding between NMAM Institute of Technology and Festo India Private Ltd. (FIPL). This lab currently has mobile workstation for pneumatics unit (double sided). It has basic pneumatic training kit along with add-on basic electro pneumatic and Programmable Logic Controller (PLC) Training kit. Active learning lab mainly consists of industrial problems for which pneumatic, electro pneumatic and PLC circuits are designed and executed on the training kit as well as in the Fluid sim simulation software by the students. • Evidence of Success: The practical exposure to the students on automation technology has resulted in improvement in student learning. The concepts are clear to the students and they are implementing automation techniques in their project work. The students have given positive feedback their opinions are - that majority of the students were of the view that the active learning lab was useful in enhancing their knowledge with practical exposure. They suggested the active learning mechatronics lab should be made as a regular lab with credit benefits and increase the pneumatic kit along with provision for computers to do simulation. • Problems Encountered and Resources Required It was felt that fully fledged fluidsim simulation lab is essential for simulating and verifying the experiments in active learning mechatronics lab.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://nmamit.nitte.edu.in/img/iqac/bestpractices2019-20.pdf

7.3 – Institutional Distinctiveness

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

1. Since couple of years the Institute is pioneering in providing training and consultancy services to the MSME's in the region. This initiative has been well received and appreciated by the entrepreneurs. Background of Nitte-KBL MSME Conclave-2019 Micro, Small and Medium Enterprises (MSME) have been globally considered as an engine of economic growth and an analytical instrument for promoting equitable development. the Nitte-KBL MSME Conclave Empowering MSMEs for Sustainable Growth is organised jointly by Justice K.S. Hegde Institute of Management (MBA Department of our Institute) and Karnataka Bank Limited. Many rural delegates attended and got benefited by this.

Provide the weblink of the institution
http://nmamit.nitte.edu.in/iqac1.php

8.Future Plans of Actions for Next Academic Year

Starting 1 new BE Programs in Emerging Area Construction of 42000 sq.ft building area for housing new labs/faculty rooms/classrooms Starting atleast one CoE by a Japanese company Starting NCC Naval WIng Starting Internet Radio Station