

Department of Research & Development

Minutes of meeting

Venue: Principal cabin

Date & Time: 06/07/23 & 11.30am

Members Attended: Dr. Anandhi R J – Dean Academics

Dr. Revathi V – Head R & D

Dr. Priyabrata Adhikary – Asso. Head R & D

Dr. Agalya – Asso. Head R & D

Agenda: R & D department work allotment

Minutes:

Principal had called for a meeting of R & D department on 6th July 2023 at 11.30 am. He formally introduced the Head – R&D - Dr. Revathi V to the team R & D

The various areas that need to be concentrated by the department was explained by the Principal. The members were assigned with definite responsibilities during the meeting with their consent.

1. Dr. Adhikary to take care of **Publications** and **Research Grants**.
2. Dr. Agalya to be in charge of **IPR Cell**
3. Dr. Piyush Kumar Soni was assigned with **Consultancy** and **ED cell/Startup**
4. Dr. Revathi to be the in charge for the **Innovation Ranking**

Dr. Revathi thanked the management and Principal for the new role assigned to her. She told the team R & D will definitely work towards the goal of taking the institution to greater heights.

Revathi
6/7/2023

NEW HORIZON COLLEGE OF ENGINEERING

Research & Development Cell

Title: Minutes of Meeting

Convener: Dr. Agalya.V

Venue: Conference Hall

Date: 07.02.2023

Chair Person: Dean_QASDC

No. of Participants: As per Attendance Sheet

Schedule of the Meeting: 5.00 pm to 6.00 pm

Points of Discussions on IPR Cell

- Department wise target of patents has been discussed based on their faculty strength and intake of students.

SI NO	Designation Department	Prof.	Assoc. Prof.	Sr.Asst. Prof	Asst. Prof	Patent Target Assigned
1	Automobile Engineering	-	1	3	-	04
2	Artificial Intelligence and Machine Learning	1	2	10	1	12
3	Computer Science Engineering	3	6	18	08	25
4	Computer Engineering	2	1	-	3	05
5	Civil Engineering	1	5	3	3	05
6	Electrical and Electronics Engineering	1	4	8	6	20
7	Electronics and Communication Engineering	2	5	13	12	25
8	Information Science Engineering	4	6	8	9	20
9	Mechanical Engineering	3	5	13	4	20
10	Applied Science	5	8	22	4	05
11	Master of Computer Application	2	3	6	---	10
12	Master of Business Application	3	4	4	3	04
Total						155

- Target planned for this year 2023 is 155 patents to be filed & Published.
- Best Patented idea can be moved to technology transfer and commercialization

Seen
Minutes

file

Points of Discussions on IIC

- The most important agenda of this meeting is to convey to add IIC logo for the upcoming events related to certain key words.
- All the IIC Co-ordinators are responsible for logo checking in the posters along with social media link.
- The Department wise IIC Coordinators list is as below:

DEPARTMENT OF R&D
PUBLICATIONS COORDINATORS MEETING / SEP / IIC

Date: 07/02/2023

Sl No	Name	Department	Signature
1)	Dr. A. Lakshmi	IT	[Signature]
2)	Dr. S. Srinivasan	ISE	[Signature]
3)	Dr. K. Gopal	MECH	[Signature]
4)	Dr. Vinuth Kumar K	EEE	[Signature]
5)	Dr. A. Sujin Jose	AU	[Signature]
6)	Prof. J. Karthick	ISE	[Signature]
7)	Dr. Vinay Kumar B.M	ISE	[Signature]
8)	Dr. Ramachandran Nair	AS-Physics	[Signature]
9)	Dr. T. Karthika	CE	[Signature]
10)	Apurva Sudhakar	EE	[Signature]
11)	Vishwanath C	MCA	[Signature]
12)	Dr. P. Chandraharan	AI&ML	[Signature]
13)	Dr. M. Anandala	CSE	[Signature]
14)	Dr. Sankar	CSE	[Signature]
15)	Shruthi S	AI&ML	[Signature]
16)	Dr. madhuchandran B	As-mat	[Signature]
17)	Shashilaxmi R	ECE	[Signature]
18)	Dr. Gurha Varma V	CIVIL	[Signature]
19)	Dr. S. Nitheya Ramesh	MCA	[Signature]
20)	Dr. Pragnanandhan	MBA	[Signature]

Dr. P. Adhikary
Dr. Sanjeev Sharma
Dr. Agalya V
Dr. Sanjeev Sharma
Dr. Agalya V
Dr. Sanjeev Sharma

Concluding remarks: Principal Sir requested faculties to focus on Research activities-patents mainly on working Saturdays.

Enclosures: Attendance Sheet of the meeting.

Dr. Agalya V
Prof and Associate Head R&D

Dr. Sanjeev Sharma
Dean_QASDC

Dr. Sanjeev Sharma
Professor and Dean - QASDC
New Horizon College of Engineering
Ring Road, Bellandur Post,
Bengaluru - 560 103

Cc: 1. The Principal, NHCE
2. The Executive Director, NHCE
3. The Internal Quality Assurance Cell, NHCE

-for kind information
-for kind information
-for kind information

DEPARTMENT OF R&D

PUBLICATIONS COORDINATORS MEETING / IPR / IIC

Date: 07/02/2023

Sl No	Name	Department	Signature
1)	Dr. C.R. Lakshmi	CE	Lakshmi
2)	Dr. S. Sivaramakrishnan	ISE	S. Sivaramakrishnan
3)	Dr. K. Gopal	MECH	K. Gopal
4)	Dr. Vinuth Kumar K	EEE	Vinuth Kumar K
5)	Dr. A. Sujin Jose	AU	A. Sujin Jose
6)	Prof. J. Kasthick	ISE	J. Kasthick
7)	Dr. Vinay Kumar B.M	CIVIL	Vinay Kumar B.M
8)	Dr. Ramachandra Naik	AS-Physics	Ramachandra Naik
9)	Dr. T. Kowitha	CE	T. Kowitha
8)	Ajay Sudhir Babu	EC	Ajay Sudhir Babu
9)	Vishwanath C	MCA	Vishwanath C
10)	Dr. P. Channameswaran	AI & ML	P. Channameswaran
11)	Dr. M. Nirmala	CSE	M. Nirmala
12)	Dr. Santhosh	CSE	Santhosh
13)	Shruthi S	AI & ML	Shruthi S
14)	Dr. madhumohana Raju	AS-maths	Madhumohana Raju
15)	Shashikumar S	ECE	Shashikumar S
16)	Dr. Gurtha Varma V	CIVIL	Gurtha Varma V
17)	Dr. B. Nithya Ramesh	MCA	B. Nithya Ramesh
18)	Dr. Prigamur Kaurkar	MBA	Prigamur Kaurkar

J. M. Prigamur 7/2/23
Dr. P. Adhikary

IPR
7/2/2023
Dr. Galya V
IPRCELL

Dr. Sanjeev Sharma
Professor and Dean - QASDC
New Horizon College of Engineering
Ring Road, Bellandur Post,
Bengaluru - 560 103



NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

Ref.: NHCE/R&D/Consultancy/2022-23/110

03.01.2023

DEPARTMENT OF RESEARCH AND DEVELOPMENT

MINUTES OF MEETING

Agenda: Strengthening the Consultancy Function – Reg.

Schedule of Meeting: 03:50 pm – 04:50 pm, 03.01.2023.

Venue of Meeting: Conference Room, 1st Floor, HR Department, Admin Block, NHCE.

Name of Attendees:

1. Dr. Siddesh G.K.	Professor and Head	R and D
2. Dr. Piyush Kumar Soni	Professor and Asso. Head - Consultancy	R and D
3. Dr. Senthil Kumar	Associate Professor	CSE
4. Dr. Arvind S Kapse	Professor	ISE
5. Dr. Gunapriya B	Associate Professor	EEE
6. Dr. Ashok Kumar	Associate Professor	ME
7. M.Gurupriya	Senior Assistant Professor	AIML
8. Dr. Geetha Varma V	Associate Professor	Civil
9. Dr. K.G. Madhwaraj	Professor	MCA
10. Dr. T. Kavitha	Professor	CE
11. Mr. Richard	Senior Assistant Professor	ECE

Points of discussions:

The **Head - Research and Development** welcomed the attendees and discussed about the Agenda of the meeting, prospective cases and associated Research Incentive Plan.

The Associate Head – Consultancy, Research and Development presented and discussed over 'The Roadmap to Consultancy for 2023' detailing the following aspects:

- Overview of Consultancy
- Prospective Ways to Consultancy at NHCE
- Significance of Consultancy (for Corporate and NHCE)
- Key-Plan for Consultancy
- Achievements for Consultancy – 2022
- Targets for Consultancy – 2023
- Actions taken for Consultancy 2023 till date
- Documentation, Proposal formats and MOMs
- Process and Services under Consultancy
- Strategic Plan for Consultancy
- Action Plan for Consultancy – 2023
- Some examples of Industrial Research Projects
- Roles and Responsibilities of Team Members
- Measurement criteria of Consultancy Success

Concluding remarks:

The Team members will have to take further meetings in their respective Departments and to submit the details of industrial expertise available to the undersigned up to 9th January 2022.

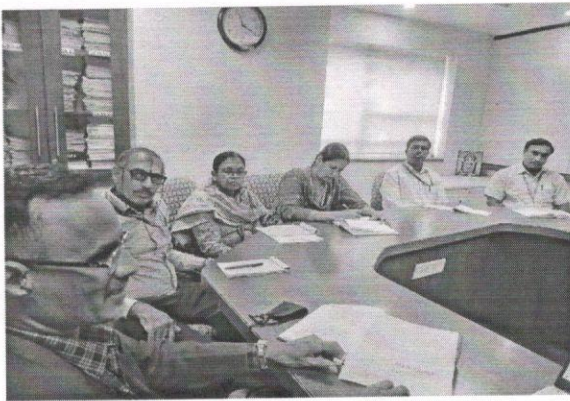
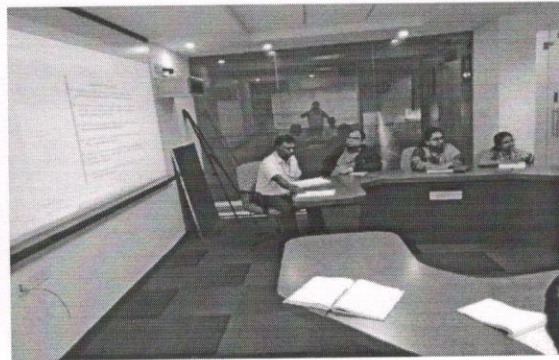
The meeting was ended with Questions and Answers interactions among the attendees, as well as positive feedback of all the attendees.

Enclosures: Attendance Sheet and Glimpse of the Meeting.

Dr. Piyush Kumar Soni
Professor and Associate Head – Consultancy
Department of Research and Development

Dr. Siddesh G. K.
Professor and Head
Department of Research and Development

Cc: 1. The Principal, NHCE – for kind information
2. The Executive Director, NHCE – for kind information
3. The Internal Quality Assurance Cell, NHCE – for kind information



Glimpse of Meeting for 'Strengthening the Consultancy Function'

Ravathi

Title: Minutes of Meeting – IIC 4.0

Category: Meeting

Date: 25/03/2022

Chair Person: IIC President / Head – R&D

Convenor: Dr. Agalya V

No. of Participants: 23

Organizers: Department of Research & Development, NHCE

Venue: ME – II OT LAB

Action Plan for Institution's Innovation Council- NHCE:

- Department-wise interested faculties and students name list has to be collected to drive the IIC activities.
- Role of IIC members should be circulated from next QUARTER(Q3&Q4).
- IIC calendar to be planned and executed.
- IIC Driven activities status for AY 2021-22 should be presented every month.
- All activities, including elective(Self)activities, as listed in calendar by IIC are mandatory for IIC members.
- Activities planned/conducted should have impact.
- Feedback should be collected for every activities and discussed in the monthly meeting.
- Event Report should be submitted within 3 days of completion of events. Template should be followed for report.
- All IIC related events report should be collected by **IIC Coordinators** and uploaded in IIC 4.0 –MOE folder(will be circulate soon).



NEW HORIZON
COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA



NHCE
**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)

- All IIC members of the respective department should give at least 5 ideas for IIC which can be taken further for prototype development towards NIC 2022.
- Details of shortlisted IIC ideas with short description and POC tracking should be maintained in google sheet shared by **IPR coordinator**.
- IIC ideas: 50 ideas to be given from NHCE (Each department minimum 8 Maximum 10. It depends upon the intake) by **28th March 2022**. These ideas can be divided with different departments.
- Motivate students to participate. Train them who are participating in the competitions. Provide all possible support to students who are participating in the competition.
- While selecting a team, select students from all consecutive years and not just with final year students as it is becoming difficult to contact them after they pass out.
- Every department should find out that each project is suitable for competition.
- **Date for review should be decided and check list to be prepared.(Convenor)**

S.No.	Name of Member	Department	Signature
1.	Prof. Siddesh G K	R&D	Siddesh
2.	Prof. Agalya V	R&D	Agalya
3.	Prof. Piruthiviraj	ECE	Piruthiviraj
4.	Prof. Dinesh J	AI-ML	Dinesh
5.	Prof. P. Adhikary	R&D	Adhikary
6.	Prof. Singaravelan A	EEE	Singaravelan
7.	Prof. Gopal K	ME	Gopal
8.	Prof. Natchimuthu Subramani	CIVIL	Natchimuthu
9.	Prof. Punniyamoorthy	MBA	Punniyamoorthy
10.	Prof. Sujin Jose A	AU	Sujin
11.	Prof. Gurulakshmi A B	ECE	Gurulakshmi
12.	Prof. Sujitha S	EEE	Sujitha
13.	Prof. Subhashini	CSE	Subhashini



NEW HORIZON
COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HSD Initiative)

NHCE IIC 4.0 Council Members and Student Coordinators

SL No	IIC Student Coordinator Name	Department	Academic Year
1	Sai Charan	AIML	2
2	Rohan S Siddeshwara	AIML	2
3	Shreyas L	AU	3
4	Rajarshi Chatterjee	AU	3
5	Charitha N	CE	2
6	Kanisha S	CE	2
7	Sandeep Chaudhary (1NH18CV157)	CIVIL	4
8	Divya T V (1NH18CV051)	CIVIL	4
9	Bhavana K	CSE	4
10	Anshika Singh	CSE	4
11	LOKESH BISWAS M	ECE	3
12	KRISHNENDH J	ECE	3
13	ABHISEK BEDANT	EEE	3
14	W Y JHANSIPRIYA	EEE	3
15	Dhyan D Kedilaya	ISE	2
16	Krithin R	ISE	3
17	Chandan .KM	MBA	2
18	Shimon Bollamma	MBA	2
19	Ramya S	MCA	2
20	Lingaraj Mudhol	ME	3
21	Nahush PN	ME	3

Siddesh
President (IIC)

Manguthu
Principal & Head of the Institute



NEW HORIZON
COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA



NHCE
INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD, Government of India)

14.	Prof. Rajesh G	ECE	<i>C. Rajesh</i>
15.	Prof. Saravanan K	ISE	<i>S. Saravanan</i>
16.	Prof. Vishwanatha C R	MCA	<i>V. Vishwanatha</i>
17.	Prof. C R Rathish	CO	<i>C. R. Rathish</i>
18.	Prof. Ramachandra Naik	BSH-Physics	<i>R. Naik</i>
19.	Prof. M S Raghu	BSH-Chemistry	<i>M. S. Raghu</i>
20.	Prof. Madhumohana Raju A B	BSH-Maths	<i>M. A. B. Raju</i>
21.	Prof. L. Srinivasan	ISE	<i>L. Srinivasan</i>
22.	Prof. Karthick Myilvahanan	ISE	<i>K. Myilvahanan</i>
23.	Prof. Gunapriya B	EEE	<i>G. Gunapriya</i>

Siddesh
President (IIC)

Manjith
Principal & Head of the Institute

NHCE INSTITUTION'S INNOVATION COUNCIL (IIC-4.0)

Innovation Ambassador (Foundation Level Completed)

S. No.	Name	Department	Contact	Status
1	Dr. Sheelan Misra	MBA	9900911649	Completed
2	Dr.R.Thirukkumaran	CSE	9789697169	Completed
3	Dr. G Rajesh	ECE	8500952735	Completed
4	Mr. Vishwanatha C R	MCA	9481800936	Completed
5	Dr. Gopal K	ME	9940936669	Completed
6	Dr.Gurulakshmi AB	ECE	8870317249	Completed
7	Dr.Natchimuthu Subramani	CIVIL	8056244064	Ongoing
8	Dr. K. Saravanan	ISE	8883825005	Completed
9	Dr. A B Madhu Mohana Raju	BSH	9441035789	Ongoing
10	Mr.Jayasheel Kumar K A	AU	9986995105	Completed

Innovation Ambassador (Advanced Level Completed)

S.No.	Name	Department	Contact	Status
1	Ms.SAUMI ROY	MBA	9945586671	Completed
2	Dr.Gunapriya.B	EEE	9994171297	Completed

Siddesh
President (IIC)

Mayanth
Principal & Head of the Institute



NEW HORIZON
COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU - Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA



NHCE

INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HOD Initiative)

NHCE IIC 4.0 Council Members and Student Coordinators

SL No	IIC Student Coordinator Name	Department	Academic Year
1	Sai Charan	AIML	2
2	Rohan S Siddeshwara	AIML	2
3	Shreyas L	AU	3
4	Rajarshi Chatterjee	AU	3
5	Charitha N	CE	2
6	Kanisha S	CE	2
7	Sandeep Chaudhary (1NH18CV157)	CIVIL	4
8	Divya T V (1NH18CV051)	CIVIL	4
9	Bhavana K	CSE	4
10	Anshika Singh	CSE	4
11	LOKESH BISWAS M	ECE	3
12	KRISHNENDH J	ECE	3
13	ABHISEK BEDANT	EEE	3
14	W Y JHANSIPRIYA	EEE	3
15	Dhyan D Kedilaya	ISE	2
16	Krithin R	ISE	3
17	Chandan .KM	MBA	2
18	Shimon Bollamma	MBA	2
19	Ramya S	MCA	2
20	Lingaraj Mudhol	ME	3
21	Nahush PN	ME	3

Siddesh
President (IIC)

Manjith
Principal & Head of the Institute



NEW HORIZON
COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA



INSTITUTION'S
INNOVATION
COUNCIL
(FORMERLY OF NHCE ASSOCIATE)

14.	Prof. Rajesh G	ECE	<i>C. Rajesh</i>
15.	Prof. Saravanan K	ISE	<i>S. Saravanan</i>
16.	Prof. Vishwanatha C R	MCA	<i>V. Vishwanatha</i>
17.	Prof. C R Rathish	CO	<i>C. R. Rathish</i>
18.	Prof. Ramachandra Naik	BSH-Physics	<i>R. Naik</i>
19.	Prof. M S Raghu	BSH-Chemistry	<i>M. S. Raghu</i>
20.	Prof. Madhumohana Raju A B	BSH-Maths	<i>A. B. Madhumohana</i>
21.	Prof. L. Srinivasan	ISE	<i>L. Srinivasan</i>
22.	Prof. Karthick Myilvahanan	ISE	<i>K. Myilvahanan</i>
23.	Prof. Gunapriya B	EEE	<i>B. Gunapriya</i>

Siddesh
President (IIC)

Manjith
Principal & Head of the Institute



NEW HORIZON
COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

Department of Research & Development

Title: Minutes of Meeting – Department of R&D

Category: Meeting

Date: 12/03/2022

Chair Person: Head – R&D

Convenor: Associate Heads R&D

No. of Participants: 16

Organizers: Department of Research & Development, NHCE

Venue: Room No-322, Department of Physics, NHCE

Objective:

- To give awareness about importance of Faculty Publications in Scopus and WoS
- To give awareness about importance of Faculty Citations in Scopus and WoS
- To give awareness about importance of Faculty Patents
- Progress of R&D initiatives from December 2021 to February 2022

About the Institution:

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.

About the Department of Research and Development

R&D Cell is headed by the Dean of Research and Development at New Horizon College of Engineering (NHCE), Bangalore. The various facilities, proactive initiatives to promote research and consultancy are un-paralleled at NHCE. The vibrant R&D culture fosters innovative spirit to kindle the young minds at the campus under able guidance and mentorship of motivated faculty members at all the departments. The sustained and passionate efforts of R&D Cell at NHCE have carved a niche in India and abroad for NHCE. R&D Cell has established vibrant Institution's Innovation Council (IIC) and also has active collaborations with various work groups and professional bodies in India and abroad. The Department with support of various Departments has been sanctioned funded projects from AICTE, VGST, KSCST etc. It has also made inroads in filing patents and working on consultancy projects apart from publishing articles in Scopus and WoS indexed Journals and Conferences.

Dr. Adhikary welcomed the Co-ordinators and briefed the importance of research in NIRF.

Dr. Siddesh G.K. provided the progress of the research at NHCE. The growth in the research is due to the hard work of the faculty members. He provided a detail information that 27 Quality Publications has been made since December 2022.

He also congratulated the efforts of the department of Civil Engineering in getting consultancy from KRIDC.

He briefed on the incentives provided by the management for Quality paper publications fetching research grants and consultancy. He also said that management would like to provide Rs. 1 lakh as a reward if the Indian patent or US patent is granted.

He also mentioned the initiatives of Research and Development to enhance research at NHCE. He provided the road map of research initiatives of the R & D department.

Faculties interacted, and the Head R&D clarified about the incentives regarding Book Publications and Book Chapters.

He mentioned that Institute has received 5 research grants from VTU, AICTE, KSCST and total of 36 Lakhs has been received.

Dr. Agalya provided the information on impact of patents and process of patenting. She briefed on how student project ideas can be converted into patents and commercialized. She also

explained about the fees relaxation of educational institutions to be a part of one of the applicants.

At the end of interaction, Dr. Adhikary provided the roadmap of research initiatives towards R&D development and 8th Sem project conversion into paper publication.

Attendance:

New Horizon College of Engineering					
R&D Meeting					
Venue: 322 (Physics Dept)			Date: 12-03-2022		
Sl No	Faculty Name	Designation	Department	Coordinator - R&D / NIRF	Sign
1	Ishani Mishra	Sr AP	ECE	Project Coordinator	gus
2	Dr. B. Nithya Ramesh	Asso. Prof.	MCA	R&D	Dr.
3	Teeyitha R	Sr. AP	CSE	Project Coordinator	Dr. R.
4	Amarjot Pal Chema	Sr. AP	ECE	R&D	Dr. R.
5	R. Baby Chithra	SAP	ECE	R&D	Dr. R.
6	Dr. D. KRISHNAN KUMAR	Asso. Prof	MCA	NIRF	Dr. R.
7	Dr. A. Swin Jose	Asso. Prof	AU	R&D	Dr. R.
8	Dr. K. Gopal	Asso. Prof	MECH	NIRF	Dr. R.
9	Dr. L. SRINIVASAN	Asso. Prof	ISE	NIRF	Dr. R.
10	Dr. B. Meenakshi Sundaram	Professor	CSE	NIRF	Dr. R.
11	Dr. K. A. Madhwaraj	Professor	MCA	NIRF	Dr. R.
12	Dr. Jagadeesh C.B.	Professor	Civil	NIRF - R and D	Dr. R.
13	Dr. P. Adhikary	Prof and Asst Head	R&D/ME	R&D Dept.	Dr. R.
14	Kanithi C. A.V	Sr. AP	AU	Project Coordinator	Dr. R.
15	Dr. VINITH KUMAR H	Asso. Prof	ECE	NIRF	Dr. R.
16	Dr. N. Prabakaran	Sr. A.P	ECE	R&D	Dr. R.
17					
18					
19					
20					
21					
22					
23					
24					
25					

Siddesh
Head-R&D



Siddesh
Head - R & D

Siddesh 12.3.22
Head - R & D

New Horizon College of Engineering						
R&D Meeting						
Venue: 322 (Physics Dept)		Date: 12-03-2022				
Sl No	Faculty Name	Designation	Department	Coordinator - R&D / NIRF	Sign	
1	Ishani Mishra	Sr AP	ECE	Project Coordinator	gus	
2	Dr. B. Nithya Ramesh	Asso. Prof.	MCA	R&D	Dr	
3	Teerth R	Sr. AP	CSE	Project Coordinator	Arta	
4	Amarjot Pal Chuma	Sr. AP	ECE	R&D	Arta	
5	R. Baby Chitra	SAP	ECE	R&D	Arta	
6	Dr. D. Devisathianar	Asso. Prof	MCA	NIRF	Arta	
7	Dr. A. Swin Jose	Asso. Prof	AV	R&D	Arta	
8	Dr. K. Gopal	Asso. Prof	MECH	NIRF	Arta	
9	Dr. L. SRINIVASAN	Asso. Prof	ISE	NIRF	Arta	
10	Dr. B. Meenakshi Sundaram	Professor	CSE	NIRF	Arta	
11	Dr. K. A. Madhwaraj	Professor	MCA	NIRF	Arta	
12	Dr. Jagadeesh C-B.	Professor	Civil	NIRF-R&D	Arta	
13	Dr. P. Adhikary	Prof and Asst Head R&D/ME		R&D Dept.	Arta	
14	Karthik. AV	Sr. AP	AV	Project Coordinator	Arta	
15	Dr. Nivith Kumar K	Asso. Prof	EEE	NIRF	Arta	
16	Dr. N. Prabhakaran	Sr. AP	EEE	R&D	Arta	
17						
18						
19						
20						
21						
22						
23						
24						
25						

NEW HORIZON COLLEGE OF ENGINEERING

Minutes of Meeting at FKCCI

Date: 02 Feb 2022

Time: 3:30 pm – 4:15 pm

Venue: FKCCI Office, Bangalore.

Members Present:

CA . I S PRASAD – President, FKCCI

Dr. Amarjeet Singh - Dean-Academics, NHCE

Dr. Siddesh G K - Head R&D, NHCE

Dr. P. Adhikary - Professor & Associate Head R&D, NHCE

Agenda:

- (i) FKCCI to act as Mentor / Guide for possible consultancy
- (ii) Strengthen Industry – Institute Collaborations

Team from NHCE gave a glimpse on R&D activities at New Horizon College of Engg and also requested President, FKCCI to provide guidance to take NHCE to greater heights.

President, FKCCI provided the following suggestions

- President, FKCCI suggested about SWOT (Strength, Weak, Opportunity and Threat) analysis of NHCE Research.
- President FKCCI informed that NHCE has a potential to compete at Global Level and not to focus only on NIRF Ranking.
- President FKCCI asked to share names of faculty members and research domain for possible and potential consultancy.
- President FKCCI suggested NHCE should focus on 40 teams in Manthan.

- The Institution need to nurture, train the 40 teams and ensure the teams are selected for final round.
- A Strong R&D advisory board is to be framed compressing of senior Researchers from Industry and Academics.
- President FKCCI also suggested that all the Departments need to have a strong Industry collaborations and work on Consultancy Projects



An Interaction President, FKCCI

From L to R : Siddesh G K, CA . I S PRASAD, Amarjeet Singh and P. Adhikary.

Siddesh
Head-R&D

NEW HORIZON COLLEGE OF ENGINEERING

Minutes of IEEE HoD's Meeting – January 2022

Date: 29.01.2022

Time: 11:00 am – 12:20 pm

Venue: Conference Hall, NHCE

Members Present:

Principal, Dean-Academics, HoD's and IEEE members.

The Principal welcomed all the members and discussed agenda points. He has given following direction/ approval to implement the following agenda points:

Agenda:

1. IEEE conference plan for year 2022

The conduction of IEEE conference for the year 2022 has been initiated. Principal has nominated the following committee members.

- a) Advisory Committee – The Principal, Dean – Academics, HOD – ECE
- b) Execution Committee - Head– R&D
- c) Organizing Committee (IEEE Members) – Dr. Rajesh (ECE), Dr. Vinoth Kumar.K (EEE)
- d) Technical Committee – Dr. P Adhikary (ME), Dr. Ramachandra N. (Applied Sciences)

2. Updating of curriculum/syllabus with the help of PAC (Program Assessment Committee) and DAB (Department Advisory Board).

- a) Principal informed all the HOD's about PAC& DAB Meeting.
- b) PAC meeting is to be held twice per Semester& DAB Meeting to be held once per Semester.
- c) It should be implemented properly.

3. Department plan for Research Paper, Grants, Consultancy, Patents, Startup, Entrepreneurship, and Innovation.

- a) Head- R&D informed department HOD's about prompt submission of VGST proposal.
- b) KSCST Project – Application Progress. The last date to submit is 15th February 2022.

4. Conducting department wise FDP's on Saturdays

- a) Principal informed all the HOD's about Departmental FDPs to be conducted on Saturdays (Topic to be decided by HODs)
- b) Dean Academics to monitor the progress of FDPs.

5. Improvement of NIRF Perception.

Principal informed all the department HOD's to work on improving NIRF:RPC and Perception components as listed below:

- a) IPR & Patent Progress
- b) NIRF Perception – Methods to improve
- c) Scopus /WoS Publication – Any NHCE author for collaborative research (with other colleges) will be counted for appraisal
- d) Perception.

6. NEP 2020 – Scheme and Syllabus. Obsolete subjects to be removed. Meeting is scheduled on 15-02-2022 to discuss the same.

The principal thanked all members

Dean-Academics

(Dr. Amarjeet Singh)



Principal

(Dr.Manjunatha)



NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF RESEARCH & DEVELOPMENT

Title: Minutes of Meeting – Department of R&D

Category: Research Committee Meeting (Research Progress Evaluation Meeting)

Date: 21/01/2022

Chair Person: Head – R&D

Convenor: Associate Head R&D

No. of Participants: 45

Venue: Online

AGENDA

- Progress of Research Work
- Publications in Scopus / WoS Journals with good impact factor by Scholars
- Full Time Research Scholars and their availability in the Institution
- Facilities for Scholars to carry out research
- Any other points

ABOUT THE INSTITUTION:

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.

ABOUT THE DEPARTMENT OF RESEARCH AND DEVELOPMENT

R&D Cell is headed by the Dean of Research and Development at New Horizon College of Engineering (NHCE), Bangalore. The various facilities, proactive initiatives to promote research and consultancy are un-paralleled at NHCE. The vibrant R&D culture fosters innovative spirit to kindle the young minds at the campus under able guidance and

mentorship of motivated faculty members at all the departments. The sustained and passionate efforts of R&D Cell at NHCE have carved a niche in India and abroad for NHCE. R&D Cell has established vibrant Institution's Innovation Council (IIC) and also has active collaborations with various work groups and professional bodies in India and abroad. The Department with support of various Departments has been sanctioned funded projects from AICTE, VGST, KSCST etc. It has also made inroads in filing patents and working on consultancy projects apart from publishing articles in Scopus and WoS indexed Journals and Conferences

MEETING OUTCOME:

The meeting was chaired by Dr Siddesh G K, Head – R&D. He mentioned about the various facilities, proactive initiatives to promote research and consultancy are un-paralleled at NHCE. The vibrant R&D culture fosters innovative spirit to kindle the young minds at the campus under able guidance and mentorship of motivated faculty members at all the departments. Dr P. Adhikary, Associate Head – R&D, NHCE mentioned about the importance of publication in scholarly journals (Scopus / WoS) during PhD work.

Dr Uma Reddy, HOD-AI&ML explained about the importance of publication in top scholarly journals (Q1 & Q2 Ranked Scopus / WoS) during PhD work.

Dr Revathi M, HOD-Physics explained about the importance of publication in top journals (Q1 & Q2 Ranked Scopus / WoS) in academic's career.

Mr D. Majumder, PhD Scholar explained his status of PhD work along with his experience in doing research at N.H.C.E. (VTU), Bangalore.

Mr Veerasha G, PhD Scholar explained his status of PhD work along with his experience in working at N.H.C.E. (VTU), Bangalore.

Mr Karthik AV, PhD Scholar explained his status of starting PhD work along with his experience in working at N.H.C.E. (VTU), Bangalore.

Siddesh
Head-R&D



NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF RESEARCH & DEVELOPMENT

Title: Minutes of Meeting – Department of R&D

Category: Research Committee Meeting (Student Project – Publication & KSCST Funding)

Date: 12/01/2022

Chair Person: Head – R&D

Convenor: Associate Head R&D

No. of Participants: 12

Venue: Room-322, Physics Department, N.H.C.E.

AGENDA

- KSCST Student Project
- Sem-7 & Sem-8 Student Project based Scopus / WoS Papers

ABOUT THE INSTITUTION:

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.

ABOUT THE DEPARTMENT OF RESEARCH AND DEVELOPMENT

R&D Cell is headed by the Dean of Research and Development at New Horizon College of Engineering (NHCE), Bangalore. The various facilities, proactive initiatives to promote research and consultancy are un-paralleled at NHCE. The vibrant R&D culture fosters innovative spirit to kindle the young minds at the campus under able guidance and mentorship of motivated faculty members at all the departments. The sustained and passionate efforts of R&D Cell at NHCE have carved a niche in India and abroad for NHCE. R&D Cell has established vibrant Institution's Innovation Council (IIC) and also has active

collaborations with various work groups and professional bodies in India and abroad. The Department with support of various Departments has been sanctioned funded projects from AICTE, VGST, KSCST etc. It has also made inroads in filing patents and working on consultancy projects apart from publishing articles in Scopus and WoS indexed Journals and Conferences

MEETING OUTCOME:

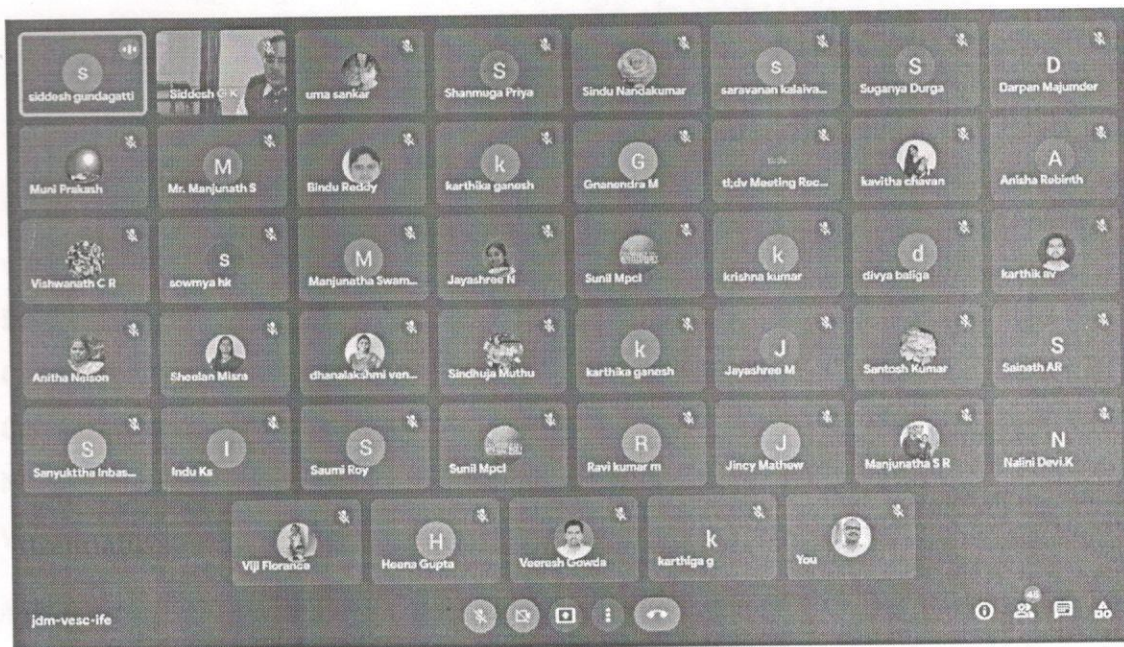
The meeting was chaired by Dr Siddesh G K, Head – R&D. He mentioned that the scheme provides financial assistance to students enrolled in professional courses (Graduate and Post Graduate) and Science Post Graduate Courses in colleges and university departments to carry out science and technology projects. Dr P Adhikary, Associate Head – R&D also added the importance to student project based publications in their career path (for both job and higher study).

Attendance:

R&D Department Meeting - 12-Jan-2022			
Sl. No	Name	Department	Signature
1	Dr. K. G. Madhwaraj	Professor, MCA	
2	Dr. N. Mahalingam	SAP, EEE	
3	Dr. Vinodh Kumar K	Assoc Prof, EEE	
4	Dr. D. R. S. A. Kumar	MBA	
5	Dr. P. Rajamurthy	MBA	
6	Dr. A. P. Nirmala	MBA	
7	Dr. B. Nitya	MCA	
8	Kavyashree	AIML	
9	Dr. P. Adhikary	R&D	
10	B. A. Sujin Jose	AU	
11	Dr. S. Nagarajan	CSE	
12	Dr. B. Meenakshi Sundaram	CSE	
13			

Chairman/ Research Committee

Attendance:



Chairman/ Research Committee

Siddesh
Head-R & D

Composition of Research Advisory Board of New Horizon College of Engineering (NHCE)


Name	Designation	Internal/ External	Organisation
Padma Shri. Prof. R. M. Vasagam	Chairman, Research Advisory Board of NHCE, Eminent Scientist, ISRO, Former Vice Chancellor, Anna University and Dr. MGR University	External	World Academy of Engineers
Dr. L. V. Muralikrishna Reddy	President, BRICS FEO & Past President, IEI and Emeritus Professor	Internal	BRICS Federation of Engineering Organisation
Prof. E.S. Dwarakadasa	Former Professor, Dept of Metallurgy, IISc & CEO & MD, KHMD Ltd	External	Karnataka Hybrid Micro Devices Ltd.
Dr. Wooday P Krishna	President, Indian Institution of Production Engineers & Emeritus Professor	Internal	Indian Institution of Production Engineers
Dr. N. Mohandas,	Former Registrar, & Technical Advisor, MHRD, Government of India (GoI), New Delhi	External	Indian Institute of Science
Dr. V. S. Somanath,	Former Chairman, KSIIDC	External	Venture Capital Investments
Dr. K. Ramachandra,	Former Director, GTRE, DRDO & Director, NDRF	External	National Design and Research Forum
Dr. R. Venkatesan,	Scientist "G", Group Head, Ocean Observation Systems, NIOT	External	National Institute of Ocean Technology, Chennai
Dr. K. Venkatesh,	Executive Committee Member, VTU, COO,	External	Drone Aerospace P Ltd
Dr. M.R. Pranesh,	Former Registrar & Professor (Ocean Technology), IIT-Madras	External	Indian Institute of Technology-Madras
Dr. S. Ravichandran	Vice Chancellor, St. Peters University & CEO & Chief Scientist, KP Tech P Ltd	External	KP Technologies P Ltd, Chennai
Mr. S.M. Jamkhandi,	Director, IISc-MSME Centre of Excellence	External	MSME, GoI
Dr. J. Ramkumar,	Asst Professor, IIT-Kanpur	External	Indian Institute of Technology-Kanpur
Dr. G. Prabhukumar	Emeritus Professor, NHCE	Internal	NHCE
Dr. Manjunatha	Principal, NHCE, Ex-officio Member		NHCE
Dr. K. Gopalakrishnan	Dean (R&D) and Member Secretary, Research Advisory Board, NHCE	Internal	NHCE

Consolidated Proceedings of Research Advisory Board Meetings held during Last 5 Years

Sl.No.	Year	Date and Time of Meeting Held
1.	2015-16	10 June 2015 Wednesday 15:00 hrs
2.		22 January 2016 Friday 16:00 hrs
3.	2016-17	18 August 2016 Thursday 15:00 hrs
4.		17 July 2017 Monday 11:30 hrs
5.	2017-18	25 October 2017 Wednesday 14:30 hrs
6.		07 February 2018 Wednesday 14:30 hrs
7.	2018-19	19 September 2018 Wednesday 11:30 hrs
8.		28 June 2019 Friday 15:30 hrs
9.	2019-20	25 October 2019 Friday 11:30 hrs
10.		09 January 2020 Thursday 10.30 hrs


Dr. K. GOPALAKRISHNAN
 Dean (R&D)-NHCE




Dr. Manjunatha
 Principal
New Horizon College of Engineering
 Ring Road, Bellandur Post, Near Marathahalli,
 Bangalore - 560 103

New Horizon College of Engineering

Research Advisory Board

Proceedings of the Meeting held at R&D Cell (RDC), NHCE on 10 June 2015 Wednesday 15:00 hrs

Members Present:

1. Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
2. Dr. L. V. Muralikrishna Reddy
3. Prof. E.S. Dwarakadasa
4. Dr. Wooday P Krishna
5. Dr. N. Mohandas,
6. Dr. V. S. Somanath,
7. Dr. K. Ramachandra,
8. Dr. R. Venkatesan,
9. Dr. K. Venkatesh,
10. Dr. M.R. Pranesh,
11. Dr. S. Ravichandran
12. Mr. S.M. Jamkhandi,
13. Dr. J. Ramkumar,
14. Dr. G. Prabhukumar
15. Dr. Manjunatha
16. Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

Decisions:

- a) The Dean (R&D) has welcomed the Members of Research Advisory Board (RAB) of NHCE, while he reposed faith and confidence on them, since they are going to provide the vital organic link between the R&D Cell with their respective Domain Experts/Industries/Departments/Faculty members & Students, during the course of implementation of various decisions of RAB.
- b) It is decided to identify minimum 2 or 3 interested and needy faculty members by the R&D Coordinators at their Departments, in such a way to ensure them to write papers and hand hold them to achieve any one or more of the following activities by creating appropriate awareness or hand holding or with positive interventions among them/faculty members and students. It is also decided to provide all out support for those who are interested to write/publish papers from any/every Department by R&D Cell right from start to end till their paper get published. Similarly, all the registered PhD Scholars will be provided adequate support for their works in terms of fulfilling their Publication requirements and logically elevated to the level of Patents based on the needs as required.

Envisaged Activities:

- ▶ **R&D Awareness/Sensitization Programmes** (*Individual/Team/Group*)
- ▶ **Publications** (*Papers/Books/Monographs/White Papers/Compendia/Proceedings of Conference/Seminars/Symposia etc*)
- ▶ **Patents** (*Utility/Design/Biological/Business/Chem./Software/Copy Right/Trade Mark*)
- ▶ **R&D Proposal for Funding:** *Faculty/Students/Jointly with Experts/Industry*
- ▶ **Startups & Technology Business Incubators (TBI):** *Proposal under Ministries/CDP/MSME etc*
- ▶ **Awards & Honors:** *National/International Competitions*
- ▶ **Student Satellite Programmes:** *Collaborative Mode/ISRO/Global Opportunities/Advantages*

- c) As a part of R&D Awareness initiatives, it has been circulated the following documents to the R&D Coordinators and HoDs of all the Departments. It is also decided to Circulate this information to all the Faculty Members in Department in general and among the needy Faculty Members in particular.


- Opportunities for Publications Provided by NHCE R&D Cell
- List of Sponsoring Agencies Providing Research Grants for Projects
- Funding Opportunities at Various Ministries
- Research Grants to Projects in Humanities and Sciences including English
- R&D Grant Opportunities-National Centre for Biological Science
- Modified Guidelines of MSE

- d) The Proposed Quarterly Plan of R&D Cell


New Horizon College of Engineering
R&D Cell
Quarterly Plan to Realize Annual Target/Milestones
(Once in 15 days Review with/reporting to Chairman)

Sl. No.	Major/Minor Activity (Annual Target)	Target for 1 st Quarter				Remarks
		Jan	Feb	Mar	Total	
1	R&D Awareness Programme: <i>Funding & Publications (12 @ 1 per month)</i>	1	1	1	3	
2	Patents <i>(10-25 in 2 Years)</i>	1	1	1	3	Dean R&D
3	Publications <i>(Print/On-line) @ 2 per Dept</i> Journals Monographs/Books/White Papers Conference Proceedings	-	10-20	15-30	25-50	Co-ordination and Monitoring at Dept Level with R&D Coordinators/HoD
4	R&D Funding Proposals: <i>Min 1/2 per Dept/Month (Rs.50 Lacs-2 Cr. in 2 Years)</i> Project Funding <i>(Grant-in-Aid)</i> Collaborative Research Projects with Industry Programme Funding <i>(Events/Conferences etc)</i> Travel Grant for International Participation Consultancy Projects Skill Training Programmes/MDPs	3-6	3-6	3-6	9-18	-do-
5	Technology Business Incubator (TBI)/Start-ups) Project Proposals with Ministries/Others	1	1	1	3	DST/MSE-CDP/NMCP
6	Student Satellite Programme					Preparatory Works
7	Catch Them Young: Student Projects UG/PG/Short-Term/NH Schools					Submission for Grants/Awards/Honors
8	Signing MoU/Networking for Collaboration	1	1	1	3	
9	Establishing Centers (of Excellence)/Societies Centre for Teaching-Learning Resources <i>(Physical/Virtual)</i> Centre for Technopreneurship Development Centre for Innovation and IPR Centre for Technology Transfer SPICE: <i>Society for Promotion of Innovation, Creativity and Entrepreneurship</i>	1	1	1	3	Co-ordination and Monitoring at Dept Level with R&D Rep./HoD with Lead Dept to Mentor the Activities

	Society for Students Satellite Programmes (SSSP/S3P/3SP)					
10	Open House: Student Project /Design Awards UG/PG/PhD/Polytechnics/ Schools					Regularly Drive Traffic of Smart Students/Aspirants to NHCE (Future Recruits to Us) Right Time: Sept-Dec
11	Explorium (Exhibition + Museum + Projects) To provide hands-on experience and kindle creativity, innovation, lateral thinking of young minds at UG/PG/PhD/Polytechnics/ Schools					State of the Art to be built over the period of 3 years with Global Funding
12	Activate/Make Vibrant "New Horizon Research Foundation" R&D Advisory Board with Eminent People Introduction of "Emeritus Professors" or "Distinguished Professor of Eminence in Research" for NHCE to Mentor Our Faculty Members:					Update the Website with Papers/Books Published by NHCE Faculty Members during the last 10 Years. List of Student Projects, R&D Projects/Activities etc


Dr. K. GOPALAKRISHNAN
 Dean (R&D)-NHCE




Dr. Manjunatha
 Principal
New Horizon College of Engineering
 Ring Road, Bellandur Post, Near Marathahalli,
 Bangalore - 560 103

New Horizon College of Engineering Research Advisory Board

Proceedings of the Meeting held at R&D Cell (RDC), NHCE on 22 Jan 2016 Friday 16:00 hrs

Members Present:

1. Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
2. Dr. L. V. Muralikrishna Reddy
3. Prof. E.S. Dwarakadasa
4. Dr. Wooday P Krishna
5. Dr. V. S. Somanath
6. Dr. K. Ramachandra
7. Dr. R. Venkatesan
8. Dr. K. Venkatesh
9. Mr. S.M. Jamkhandi
10. Dr. G. Prabhukumar
11. Dr. Manjunatha
12. Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

Leave Absence Granted: *Dr. N. Mohandas, Dr. J. Ramkumar, Dr. M.R. Pranesh and Dr. S. Ravichandran*

Decisions:

It is decided to have an ambitious target of filling Minimum 365 Patents of NHCE in 100 days' time frame.

*Here after the Project will have a Nick Name: “**Project: 365 Wheels**”*

Name of the Proposed Event (May be decided after the Brainstorming with activists):

- a) **Invent for India**
- b) **Invent in India**
- c) **Invent 2 Succeed** *(The name Dr. Amarnath used, INV for **invent** and ENT for **entrepreneurship**.)*

Once the name is finalized we can design a logo for the event.

Road Map:

- a) We need assistance from Lawyers to draft the Patents. We can speak to the law college (Seshadripuram Law College/National Law School): Bringing in the students specializing in Patent Law.
- b) We also need draft for,
 - i. Non-Disclosure Agreement
 - ii. Sharing commercial value in case the idea is generated by the student(s) **OR**
 - iii. Non-Sharing of commercial value in case the idea is other than that of the student(s).
- c) If industries can sponsor from the start, they will be interested in the commercial aspects and we can also inform that we can take up projects to solve their technical problems/requirements.
- d) Agencies to be Networked for Support/Sponsorship:
 - i. National Design and Research Foundation (NDRF)-IEI
 - ii. National Institute for Advance Studies (NIAS)-IISc *(Both the NDRF & NIAS headed by Dr. Baldevraj as Chairman and Director respectively)*
 - iii. TIE, Bangalore for a tie up since they support such events.
 - iv. Other sponsors for the event could be CII, FICCI, MSME, Registrar of Patents, NID, IIPe etc

- e) We need at least 400 students, who will be willing to be guided in creating new ideas and new product.
- f) **Dr. Amarnath**, Our Lead Anchor & Head for the Project, will have to address them generally on CREATIVITY & INNOVATIONS for which he will prepare a PPT. Date for Inauguration/Launch of the Project/Event need to be decided (*Preferable date during the 1st week of Feb 2016*).
- g) Subsequently he can guide a minimum of 25 and maximum of 50 students at a time to create an individual product for each and also *aimed for such a mega event which will result in filling of Patents*).

h) Methodology:

- i. He needs 3-6 days per batch of undivided attention from the students in a classroom (from 9 a.m. to 5 p.m. with lunch and tea breaks) and they should know at least one software to create the model on a computer (*It may outsource or done with the help of others/students who are good at it*). At the end of 3-5 days they will be able to give a PPT of their own. The best can be showcased at an exhibition after completing all 365 innovations.
- ii. The student will have to sign a nondisclosure agreement (NDA) and also a joint agreement that the patent will be filed jointly by the College, Dr.Amarnath, the student(s) and any other Faculty member(s) involved in the process/contributed towards the sensible idea/product(s). The sequential order of name(s) will be in the same order/level of individuals' Contribution from top first to least.
- iii. As and when the project is completed, we should engage a patent lawyer(s) and file for a priority date. On completion of all the 400 innovations, the best 365 or 366 should be filed for a patent on a single day.
- iv. There are many incentives available for filing a patent and we can look into the same. Project funding can also be availed based on individual idea(s)/project(s).
- v. A team of student representatives from different departments should be selected and a cell for creativity and innovation should be set up in the campus and one or two staff members from each department along with R&D Coordinators should also take responsibility for the event.
- vi. Wherever possible we can make a prototype and an exhibition can be held on a suitable day to showcase all the innovative products under one roof.
- vii. If possible a VVIP should be invited to inaugurate the exhibition and industrialist should be invited and the patents offered for sale on suitable terms such that the students will also be benefited.
- viii. The entire event can be packaged in such a way to attract funding/internal or self supporting by the participating students/faculty members/professional bodies/ industrial association/Crowdfunding etc and/or funding Agencies may also be approached appropriately.
- ix. If the entire Project goes as we envisaged and if could succeed, then it will be historical event, across the World and surely will get an entry in to **“Guinness Book of World Records”**

- x. Networking with “**Guinness Book of World Records**” and fulfill their requirements etc to be done on fast track. We have also identified an agency at London, which has recently (2014-15) done liaison works for a leading TV Channel in Chennai for their Guinness Record.
- xi. The Proposed Budget/Economics need to be worked out in detail. However, the primary focus will be making it a “Frugal Event” with self generated/self-propelled event with optimum budget and with financially viable model. Local Hospitality (*Accommodation at our Guest House/Hostel with Boarding is preferable to have more evening sessions with Students (4-7/9 pm)*), Logistical support to Dr.Amarnath (*2AC/AC Chair Car Train Fare: To & Fro Chennai. 4/5 times only in 2-3 months*) may be provided by NHCE to Dr.Amarnath.
- xii. We need a Team of dedicated/interested/self-motivated team of volunteers from Students (UG/PG) & Core Faculty members from all departments.

We are open to any suggestion from the members of RAB.

Last week of April is celebrated as **International Innovation Week** and we should target to complete the project before that. We have approximately 90 days to achieve it.


Dr. K. GOPALAKRISHNAN
Dean (R&D)-NHCE




Dr. Manjunatha
Principal
New Horizon College of Engineering
Ring Road, Bellandur Post, Near Marathahalli,
Bangalore - 560 103

New Horizon College of Engineering

Research Advisory Board

**Proceedings of the Meeting held at R&D Cell (RDC), NHCE on
18 August 2016 Thursday 15:00 hrs**

Members Present:

- a) Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
- b) Dr. L. V. Muralikrishna Reddy
- c) Prof. E.S. Dwarakadasa
- d) Dr. Wooday P Krishna
- e) Dr. V. S. Somanath
- f) Dr. K. Ramachandra
- g) Dr. J. Ramkumar
- h) Dr. R. Venkatesan
- i) Dr. K. Venkatesh
- j) Dr. S. Ravichandran
- k) Mr. S.M. Jamkhandi
- l) Dr. G. Prabhukumar
- m) Dr. Manjunatha
- n) Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

Leave Absence Granted: *Dr. N. Mohandas and Dr. M.R. Pranesh*

Decisions:

Items Discussed and Approved for Immediate Implementation

A. Incentive for Best Performance: Introduction of Awards (*Financial/Non-Financial*)

Teaching Awards

- Outstanding Performance Award
- Long Service Award
- Teaching Honour Roll
- Annual Teaching Excellence Award
- Most Promising Teacher Award
- Engineering Educator Award
- Teaching Commendation Award

Research Awards/Student Awards

- Certificate of Appreciation/Award
- Best Paper Award/Best Monograph Award/Best Proceedings Award
- Certificate of Merit Award
- Prestigious Publication Award
- Research Innovation Award

Teaching Learning Process: Self Learning, MOOCs, Discovery Channel, You Tube Videos, Webinar etc

Audio/Video Recording of Keynote Addresses of Chief Guests (Including Convocation Addresses) at Main Auditorium

Suggested Innovation in Teaching & Learning Process

- Process Approach to Teaching Learning
- Focus to kindle Students' Creativity and Innovation/Lateral Thinking
- Revised Bloom's Taxonomy
- Experiential Learning
- Real World Applications and Examples
- Video Assignments (*Must Watch Series*): Refer to the Group-Moderator
- Audio Assignment s (*Must Hear Series*)
- Audit Courses
- Open Air Theatre: Group Presentation/Oral/Audio-Visual etc; Evening Open Screening
- Peer Learning/Role Play/Debate/Elocution
- Traditional Knowledge/Vedic Science Foundation/Historical Learning
- Monograph Series (*Contribution from All the Students: Wiki Model*) To enrich contemporary Understanding/To Know the Emerging Trends
- Centre for Teaching Resources and Teaching Aids
- Technology Watch/Future Watch (Discovery Channels/You Tube Watch)
- Patents' Watch: PQ (*Patent Quotient*)
- Startups' Watch: SQ (*Startup Quotient*)
- Innovation Quotient: *InnovQ*
- Creativity Quotient: *CQ*

B. Co-curricular & Extra-curricular Activities

(30 Activities under 12 & 16 Possible/Proposed)

If any of the following activities are already in place, can be strengthened and shall be made visible in Campus and in our Website

1. **Infosys Campus Connect/Foundation Programme**
2. **Microsoft Innovation Center**
3. **CAMBRIDGE ESOL Examination Center**
4. **Wipro: Mission 10X**
5. **Microsoft: Campus Agreement**
6. **Online Certificate Verification of Students** (*Credentials of Students Can be verified through online with payment*)
7. **NHCE Moodle**
(*Moodle is an education software helping teachers and trainers create and deliver effective online learning environments used by millions world-wide*).
8. **IIT-Bombay FOSSEE**
(*FOSSEE: Free and Open Software in Education*) project promotes the use of FOSS tools to improve the quality of education in our country. We aim to reduce dependency on proprietary software in educational institutions. We encourage the use of FOSS tools through various activities to ensure commercial software is replaced by equivalent FOSS tools. We also develop new FOSS tools and upgrade existing tools to meet requirements in academia and research.
The FOSSEE project is part of the National Mission on Education through Information and Communication Technology (ICT), Ministry of Human Resources and Development, Government of India.)
9. **CEC**
The Consortium for Educational Communication (CEC) popularly known as CEC is one of the Inter University Centres set up by the University Grants Commission of India.

10. ICTACT

ICT Academy (ICTACT) is an initiative of the Government of India in collaboration with the state Governments and Industries. The organization was formed with representations from the State Government of Tamil Nadu, leading companies in the ICT industry and National Association of Software Services Companies (NASSCOM) in India. ICTACT is a not-for-profit society. It was started to meet the skill requirements of the industry and generate more employment especially in tier 2 and 3 towns, the rural parts of the country.

11. ARM University Program: The Architecture for the Digital World

(Similar initiatives are listed in Table under Advanced Labs, which may bring very good value addition during NB: Industry Driven Labs or Contemporary Tools of Industries etc at Campus)


Preparing Students Today for Tomorrow's Technology





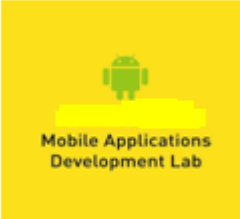
The ARM University Program enables educational use of ARM technology. University courses and labs, student projects, and academic research in embedded systems, microprocessors/controllers, mechatronics, System on Chip (SoC) design, computer architecture, and other areas all benefit from using ARM. The program provides a variety of teaching materials, hardware platforms, software development tools, IP, and other resources for educators, students, and researchers.




The ARM University Program Launches the Graphics and Mobile Gaming Education Kit: ARM Launches the Graphics and Mobile Gaming Education Kit in partnership with Chukong Technologies and Rockchip Microelectronics. The kit enables educators worldwide to teach students the fundamentals of graphics and mobile game design using state-of-the-art technologies from the ARM eco-system.

Find below the Proposed Advanced Labs, which are primarily for Free or through MoU may be established at NHCE. Concerned Departments can look in to it and do the needful. There are similar opportunities available with many industries. Many such free tools can be put in to use at our existing Labs with the involvement of our Faculty Members and Students. Many of these Labs will provide contemporary insight and real life industry practices and exposure to real life needs of industry. They can be easily setup at our existing Labs by freely downloading many of these tools or by signing MoU with little negotiations. Even some of the Modules can be part of our G, P & E Programmes, if any cost involved. Many of our faculty members may aware of the existence of these tools and techniques; however, it needs sensible intervention from Management to make them to realize/understand the seriousness and expectations of management in this regard in such a way to transfer the benefits to our students in ensuring their employability/overall developments etc.

12. Advanced Labs (10) Identified for Establishment at NHCE

Name of the Lab	Salient Features/Description/Benefits	Beneficiaries Dept/ Engagement Model/Remarks
	SIEMENS: Industrial Automation Lab SIEMENS certification training (45 hours) is given to the third year ECE and EEE students which provide hands on training in Ladder Logic design. This lab is being powered by Siemens "State of the art" Programmable Logic Controllers (PLCs) of 1200 and 200 series, AC and servo drives, Human Machine Interface (HMI) and SCADA software.	ECE, EEE MoU

	<p>ARM: ES Lab</p> <p>Students are trained on 8/16/32 bit processors ranging from ARM7, ARM, Cortex M0/A8 PIC 16F/18F, DSP C51, TMS C67xx DSK, Raspberry pi, Beagle bone</p> <p>Students are exposed to hardware platforms like ARM, Free scale, Intel, Texas Instruments ARM University Program.</p> <p>Working knowledge of ARM assembly Language and optimization Knowledge of the Linux internals / Linux device drivers. Ability to use JTAG debuggers, logic analyzers. Familiar with RTOS concepts and develop applications using communication protocols Students on track for ARM Accredited Engineer Certification program from ARM.</p>	<p>ECE, EEE, (CSE, ISE: If Electives Offered) Free/MoU</p>
	<p>LABVIEW</p> <p>Training our students on LabVIEW Core I and II Producing Certified LabVIEW Associate Developers Getting Internships for our students Solving problems related to Measurement, Automation and Control Engg. (MACE) Prototyping proof-of-concept pieces of software and hardware</p>	<p>ECE CSE, ISE, MCA & Others MoU</p>
	<p>CADENCE: VLSI Lab</p> <p>With an objective of bringing out a System on Chip (SoC) from our student's community, an advanced VLSI lab is set up with Cadence Design Suite (30 users' license) and also Xilinx FPGAs for FPGA prototyping. Skilled professors with enough industrial experience are able to inspire, motivate and guide the students to carry out our initiatives/mission. Students are categorized based on their skill set and trained as required by industries as a Digital Logic Design Engineers Verification Engineers FPGA Design Engineers Physical Design Engineers ASIC Design Engineers</p>	<p>ECE, EEE</p>
	<p>ISTQB Software Testing Lab</p> <p>We train our students on manual and automated testing using Quick Test Professional (Functional), Load Runner (Performance) and Quality Centre (Defect management). Students also learn about software testing life cycle and test cases preparation and execution. Students gain International Software Testing Qualification Board (ISTQB) Certification (Foundation Level).</p>	<p>CSE, ISE, MCA MoU</p>
	<p>MOBILE APPLICATIONS DEVELOPMENT Lab</p> <p>A dedicated laboratory for development of mobile applications can be established with state of the art computing machines and smart devices. Enthusiastic teams of students and faculty members develop industry standard applications to cater the needs of individual smart phone users and corporate world.</p>	<p>CSE, ISE, MCA MoU</p>

	<p>RUBY ON RAILS Lab</p> <p>Ruby on Rails (RoR) is uniquely structured and an aspirant Open Source Dynamic Web Development Framework. Our training on RoR covers OOPS in Ruby, Control structures in Ruby, Mixins in Ruby, MVC architecture, Ruby gems and rake tool and creating applications in rails. Also add Python, Objective-C, PyObjC, Node.js etc. The trained students are assigned with projects like Web Blog creation, Expert corner, Employee time tracking system, E- Magazine, etc. We produce Certified Ruby Programmers (Silver).</p>	<p>CSE, ISE, MCA Free</p>
	<p>LADDER Lab</p> <p>We can enter into an Academic Certification Partner (ACP) Agreement with Dassault Systems. Activities included in the LADDER lab: Training our students on CATIA V6 PLATFORM - CATIA, DELMIA, SIMULIA and ENNOVIA for duration of 120 hours. Producing Certified CATIA Users Training our students on SolidWorks 2016 Getting Internships for our students Providing support and consultancy to industries on design and development projects.</p>	<p>Mech, Auto, Civil, EEE MoU</p>
	<p>AUTODESK CERTIFICATION</p> <p>We train the students on products from AUTODESK like AUTOCAD 2016, Inventor Professional 2016. Students are trained by Autodesk Certified Instructor - ACI. Training students based on the course prescribed AUTODESK Producing AutoCAD Certified Professionals Producing Autodesk Inventor Certified Professionals.</p>	<p>Mech, Auto, Civil, EEE MoU</p>
	<p>CLOUD COMPUTING Lab</p> <p>We provide 40 hours training for international certification course Cloud Infrastructure Associate (CIA), framed by EMC. We also initiated a Level-I certification program called "Cloud Infrastructure and Services Associate" collaborated with ICTACT.</p>	<p>CSE, ISE, MCA & Others MoU</p>

13. Scientific and Industrial Research Organisation (SIRO) as Recognized by Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India

The Recognition Scheme for Scientific and Industrial Research Organisations (SIROs) will bring together voluntary organizations operating in non-commercial sector with a view to promote their activities in the area of scientific and industrial research, design and development of indigenous technology to achieve technological self-reliance and minimize foreign inputs.

The Organisations seeking support under the scheme will undertake activities for the extension of knowledge in the field of natural and applied sciences, agricultural, medical and social sciences. Functional SIROs having clearly stated objectives of undertaking scientific research, broad based Governing Council, Research Advisory Committee, research personnel, infrastructure facilities for research, well defined, time bound research programmes and clearly stated objectives of undertaking scientific research are

considered eligible for recognition by Department of Scientific and Industrial Research (DSIR).

The SIROs recognized by DSIR (other than hospitals) are eligible for customs duty exemption and excise duty waiver on import of equipment/instruments and their spares and consumables; under notification nos. 51/96-Customs dated 23.7.1996 and 10/97-Central Excise dated 1.3.1997 respectively. The recognition would help them to evolve research infrastructure by way of overall administrative support assistance and other assistance as may be necessary for the efficient working of a research-oriented organization.

14. Events/Competitions may be planned regularly among Students' Teams

On/Covering: Self Learning, MOOCs, Discovery Channel, You Tube Videos, and Webinar etc.

15. List of Professional Bodies (*Few may be already existing at our Campus*)

1. Institution of Engineers (India)	2. Bangalore Management Association
3. Institute of Electrical and Electronics Engineers	4. Institute of Directors
5. Institution of Engineering and Technology	6. Indian Society for Training & Development
7. Institution of Electronics and Telecommunication Engineers	8. Federation of Karnataka Chambers of Commerce and Industry
9. Institution of Civil Engineers (India)	10. Institute of Indian Foundry Men
11. Institution of Mechanical Engineers (India)	12. Engineering Design and Analysis Forum
13. American Society of Mechanical Engineers	14. Rapid Prototyping Society of India
15. Indian Institution of Industrial Engineering	16. Bird Strike Research Group of India
17. Aeronautical Society of India	18. National Design and Research Forum
19. Computer Society of India	20. Indian Welding Society
21. Indian Society for Technical Education	22. Institute of Marine Engineers (India)
23. Indian Institution of Bridge Engineers	24. National Safety Council of India
25. Indian Institution of Production Engineers	26. Loss Prevention Association of India
27. National Institution for Quality & Reliability	28. Indian Institution of Plant Engineers
29. Indian Environmental Association, Accredited Member of Water Environment Federation USA	30. Indian Society for Networked Autonomous Unmanned Systems
31. Institute for Counseling & Transactional Analysis (India), Affiliated to International Transactional Analysis Association	33. International Association of Engineers
32. Data Science Association	34. International Association of Computer Science and Information Technology
	<i>50+ Domain Specific Societies are there with them</i>

List Incomplete (*Many more Professional Societies are there in India and abroad for Networking*)

SOCIETIES OF IACSIT (*Many are Free Online Membership Only*)

International Association of Computer Science and Information Technology (IACSIT)

IACSIT Society Chapters

♦ Chapters are:

- technical subunit of one or more Sections, or a Council;
- constituted by a minimum of five (5) members of a Society;
- established by petition to the parent unit(s) and Societies concerned to represent and fulfill the technical needs of the members and the missions of IACSIT;

IACSIT Sections

♦ Sections are:

- the basic operating organizational unit of IACSIT;
- constituted by a minimum of ten (10) members;
- established with the approval of IACSIT by petition of those who live/work in relatively

close proximity to be served by activities that meet their needs and further the missions of IACSIT.

If you want to apply for to establish IACSIT new Chapter/ Section, please compile and return the SOCIETY CHAPTER PETITION / SECTION PETITION to petition@iacsit.org. Your application will be processed in 15 work days.

SOCIETIES OF IACSIT

Most IACSIT members choose to add value to their membership by joining one or more IACSIT Societies. Benefits include access to current information, opportunities to network with peers, and enhancement of the worldwide value of your profession. The members of IACSIT Societies can help the development of IACSIT by joining our different societies, proposing new societies, acting in our journal's editorial boards, organizing conferences and involving in our executive committee.

- IACSIT Transportation and Traffic Society (TTS)
- IACSIT Systems, Man & Cybernetics Society (SMCS)
- IACSIT Software Engineering Society (SES)
- IACSIT Social Science and Humanities Society (SSHS)
- IACSIT Signal Processing Society (SPS)
- Reproductive Biology and Genetics Society (RBGS)
- IACSIT Reliability and Safety Society (RSS)
- IACSIT Power Engineering Society (PES)
- IACSIT Photonics and Microelectronics Society (PMS)
- IACSIT Modern Education Technology Society (METS)
- IACSIT Modeling and Simulation Society (MSS)
- IACSIT Microwave, Antennas and Remote Society (MARS)
- IACSIT Mechanical Engineering Society (MES)
- IACSIT Management Science and Engineering Society (MSES)
- IACSIT Internet Society (IS)
- IACSIT Information Technology Society (ITS)
- IACSIT Industry and Management Society (IMS)
- IACSIT Graphic and Image Processing Society (GIPS)
- IACSIT Food and Agriculture Society (FAS)
- IACSIT Financial Engineering Society (FES)
- IACSIT Environment Science Society (ESS)
- IACSIT Electronics and Electrical Society (EES)
- IACSIT Economics and Business Society (EBS)
- IACSIT Communication Engineering Society (CES)
- IACSIT Construction and Building Society (CBS)
- IACSIT Computer Society (CS)
- IACSIT Computer Theory and Engineering Society (CTES)
- IACSIT Components, Packaging & Manufacturing Society (CPMS)
- IACSIT Communication Engineering Society (CES)
- IACSIT Circuits & Systems Society (CSS)
- IACSIT Applied Chemical Engineering Society (ACES)
- IACSIT Bioinformatics and Biomedical Engineering Society (BBES)
- IACSIT Automation and Robotics Society (ARS)
- IACSIT Applied Physics Society (APS)
- IACSIT Applied Mathematics Society (AMS)
- IACSIT Aerospace Society (AS)
- IACSIT Advanced Control System Society (ACSS)

16. Co-curricular and Extra Curricular Activities

- a) Forum for Women Empowerment
- b) ECO MITRA: Nature Club
- c) Vivekananda Adhyayana Kendra
- d) Life Skills Forum
- e) LAKSHYA: Commerce and Management Forum

- f) DEEKSHA: The Humanities Forum
- g) PRAGNAYA: The Science Forum
- h) Society for the Promotion of Innovation, Creativity and Entrepreneurship (SPICE) Club
- i) SHRISTI: Entrepreneurship Cell
- j) Wellness Centre
- k) Centre for Global Excellence
- l) Bhasha Sngama: The Forum for Languages
- m) National cadet Corps (NCC)
- n) National service Scheme (NSS)
- o) Youth Red Cross
- p) Bharat Seva Dal
- q) Free Thinkers' Forum
- r) Film Appreciation Club
- s) Humour Club

17.Events/Competitions on Gaming Industry (Video Games, ICT Tools), Game Engine/Game Development etc.

18. Centre of Excellence for E-Sports/Gaming Industry/VR/AR etc

19. Crytek Focuses on the Future with New “VR First” Academic Initiative

Frankfurt am Main (Germany) – January 19, 2016

The creators of CRYENGINE will provide full source code access for free and equip a new generation of talent to explore the power and potential of VR

Seeking to nurture grassroots virtual reality development worldwide, Crytek today announced the launch of its new *VR First* program.

Under the initiative, Crytek will partner with academic institutions to provide state-of-the-art technology and facilities for students and researchers looking to explore the power and potential of VR.

Beneficiaries of the *VR First* program will not only enjoy full source code access to Crytek's CRYENGINE development suite, but also free use of hardware from *VR First* affiliates.


VR First seeks to empower the development talent of tomorrow by ensuring academic institutions around the world are equipped to support their ambitions in this exciting new field. The initial *VR First* Lab opens its doors today at Istanbul's Bahçeşehir University and will act as a pilot destination for the scheme. Crytek and the program's affiliate hope to ensure every *VR First* lab facilitates users to play a key part in shaping the future of VR.

For more information on *VR First*, and details of how to become an affiliate or academic partner, please visit <http://vrfirst.cryengine.com>

About Crytek

Crytek is an independent videogame developer, publisher and technology provider with headquarters in Frankfurt am Main (Germany) and seven other studios around the world. Established in 1999, Crytek has created multiple award-winning titles, including the original Far Cry, the Crysis series, Ryse: Son of Rome and Warface. All of Crytek's games are developed using CRYENGINE, the company's cutting-edge 3D game technology, which is also the first choice of other leading developers and licensees when creating games for PC, Xbox One, PlayStation®4, and Android. Crytek's ongoing growth in the games-as-a-service market has extended the company's reach as they continue to deliver top quality interactive experiences to players through self-publishing platforms online.

For more information visit: www.crytek.com and www.cryengine.com.


Dr. K. GOPALAKRISHNAN
Dean (R&D)-NHCE



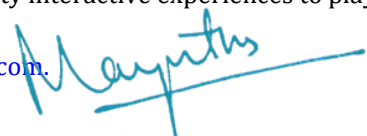

Dr. Manjunatha
Principal
New Horizon College of Engineering
Ring Road, Bellandur Post, Near Marathahalli,
Bangalore - 560 103

Table Agenda Items Circulated Among the Members of Research Advisory Board

References:

<http://venturebeat.com/2015/10/27/even-siberians-can-make-a-game-with-30m-downloads-in-todays-global-game-market/>

Perhaps the most unusual game company I met while in Israel was [MyTona](#), a studio founded by twin brothers who grew up in one of the coldest regions of the world in Russia's Siberia. MyTona has more than 100 employees in Yakutsk, and it published a hit game [The Secret Society: Hidden Mystery](#), via Swedish game publisher G5. The game has been downloaded more than 30 million times since 2012.

The DeanBeat: 10 predictions for the game industry in 2016

<http://venturebeat.com/2015/12/25/the-deanbeat-predictions-for-the-game-industry-in-2016/>

The trends below were conceived with the help of game industry observers, but the arguments are my own. I thought about making predictions about Steam Machines and Apple TV as alternative platforms, but the future of those products seems foggy.

For fun and embarrassment, here are my predictions for [2015](#), [2014](#), [2013](#) and [2012](#). Please vote for your favorite prediction in the poll at the bottom. I've credited people who came up with the ideas in the text.

- 1. Virtual reality will take off, but not as fast as the hype would suggest**
- 2. VR and AR will command much of the new investments in gaming**
- 3. Esports viewership will be on a path to rival the Super Bowl**
- 4. Sony will widen its lead again in consoles**

This prediction is based on momentum and the idea of the big getting bigger.



With 30 million units sold, Sony has won the current generation console war. Nintendo, which had a one-year headstart on Sony, has sold only 11 million Wii U consoles. And Microsoft's Xbox One is at about 17 million. Even with a stronger lineup for Xbox One, Microsoft isn't gaining much ground on Sony during this holiday season.

Next year, Sony is expected to launch a series of big titles such as Uncharted 4: A Thief's End, Street Fighter V, The Last Guardian, Horizon: Zero Dawn, Hellblade, Ratchet & Clank, and more. Those exclusives, as well as the launch of the PlayStation VR platform, should satisfy the appetites of PlayStation fans and help ward off competitive threats from rivals.

Microsoft and Nintendo will likely provide stiff competition and survive as alternative, profitable game companies. But I can't see them catching up with Sony in this generation.

- 5. Game companies will explore the possibilities of augmented reality (AR) but won't cash in on it yet**
- 6. Nintendo will show its cards for its turnaround strategy**
- 7. Hardcore gaming gains ground on mobile devices**
- 8. Consolidation will continue as foreign companies and media conglomerates acquire more game publishers**

9. Markets such as India and Brazil will become much more interesting

	INDIA (2014) CHINA (2004)	
1.2 billion	Population	1.3 billion
32%	Urban population	38%
26.2 years	Median age	31.9 years
\$1.50 trillion	GDP	\$1.49 trillion
7-8%*	GDP Growth (next five years)	11.42%
140 M	Smartphone Users (India)/Internet Users (China)	95 million
650 million*	Smartphone Users (India) /Internet Users (China) (next 5 years)	390 million

Above: Is India just like China was five years ago?

Image Credit: Atul Bagga

It took a very short time for China to move from a gaming backwater to the world's biggest gaming market. It owes that growth to the fast adoption of digital gaming on the PC and mobile devices.

As smartphone adoption picks up in other emerging markets such as India and Brazil, we'll see games in those markets take off. Games are becoming a global business, and they always make their way to the fastest-growing platforms in the fastest-growing markets. After years of slow growth, India is looking promising, and Brazil is close behind. These countries may very well leapfrog Western countries when it comes to mobile growth.

Atul Bagga, a longtime game analyst and the former head of Zynga Asia, [estimates](#) the Indian mobile-game market could grow from \$200 million today to \$3 billion by 2019. Bagga wrote, "India's smartphone installed base [is] expected to reach 650 million units by 2019, up from 140 million in 2014; it's driven by a large mobile subscriber base (900 million, or three times the size of the U.S.), a shift from feature-phones to smartphones, increasing smartphone affordability, and new business-friendly government. The demographics of the nation, most of all, make it ripe for the game industry."

10. The traditional gaming media will lose ground to new ways of reaching consumers

- **Wargaming**

Wargaming is an award-winning online game developer and publisher and one of the leaders in the free-to-play MMO market. Founded as a privately held company in 1998, Wargaming has shipped mo... [All Wargaming news »](#)



Track **Wargaming's Landscape** to stay on top of the industry. Access the entire ecosystem, track innovation & deals. [Learn more.](#)

New Horizon College of Engineering

Research Advisory Board

**Proceedings of the Meeting held at Conference Room, NHCE on
17 July 2017 Monday 11:30 hrs**

Members Present:

- a) Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
- b) Dr. L. V. Muralikrishna Reddy
- c) Dr. Wooday P Krishna
- d) Dr. V. S. Somanath
- e) Dr. K. Ramachandra
- f) Dr. J. Ramkumar
- g) Dr. K. Venkatesh
- h) Dr. S. Ravichandran
- i) Dr. G. Prabhukumar
- j) Dr. Manjunatha
- k) Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

Leave Absence Granted: *Prof. E.S. Dwarakadasa, Dr. N. Mohandas, Dr. R. Venkatesan, Mr. S.M. Jamkhandi and Dr. M.R. Pranesh*

Decisions:

The Member Secretary has presented the Action Taken Report on the Decisions of RAB Meeting held on **18 August 2016 Thursday 15:00 hrs**

It is decided unanimously to implement the Proposals with an Approval to the Drafts as presented as below:

1. Draft Incentive Schemes for Motivation/Encouragement to Sponsored Research Projects/Consultancy Projects/Publications,
2. Operational Guidelines to Strengthen Sponsored Research,
3. IPR Policy of NHCE and
4. Business Incubation Policy of NHCE to encourage the Startup Companies" etc including the views and suggestions/modifications, as suggested by board members. It is decided to implement it immediately and circulate among the Faculty Members for their information at all Departments of NHCE.
5. Encourage the Participation of Students' Teams to Various Hackathons including UC Berkeley-AP Smart India Hackathon, 2017 to be held during 2017, August 29-31, Vijayawada, AP with the support of IBM-OpenPOWER Foundation!

Action Taken on Report on Meeting held on 13th June 2017 and Review on Suggestions Given by NBA Committee Experts' Exit Meeting (*Presented before the RAB for Noting*)

1. 10% incentive will be paid by Trust to the faculty members for getting Research Grants. (*Noted*)
2. Quality Research papers should be published. Dr. Gopalakrishnan, Dean - R&D should prepare list of Journals & circulate among everyone. (*List has been Shared with Head-HR & Principal: Awaiting Circulation among Faculty after Review/Approval of Principal*) Attached here also.
3. Dean-R&D should submit proposal for paper publication incentives (*Non Financial Incentive: Every Paper Published in our proposed List of Journals, by our Faculty*)

Member/Students will get 8hrs of OOD in his/her Account which can be consumed later by themselves as 30 minutes/1 hour or 2 hours or in multiples of permissions either in the morning or in the evening based on their needs. However, they can consume it without affecting their regular class work).

4. Dean – R&D to submit proposal for incentives to students for good paper publication.
5. Every department should have consultancy project. To immediately start in CSE/CIVIL/ME/MBA. Dean- R&D to frame consultancy policy. *(Revised Policy Based on earlier Approval of our Chairman)*
6. Dean R&D to make Innovation Center and Entrepreneurship Development Center active. *(Work with EDC/Club & MBA Dept. Orientation with Dr.W.Amarnath & Others Planned)*
7. Dean- R&D should allot 4 to 5 Project Works *(Socially Relevant Products)* to students which can continue among the students.

RAB has Recommended the Seed Money: Rs. 5 Lacs-50 Lacs in Phases-Leading to Start-ups (Investments will be Recovered & Recycled) for the following Projects:

- a) *Intrusion Detection using OFC-Defence/Border Security/e-Fencing(ECE/EEE/CSE/ ISE/MCA)*
- b) *Desktop Machine for Making Oil (Petrol/Diesel) from Waste Plastics (Mech/Auto/ MBA)*
- c) *Intelligent Career Design Tool (Online/Physical) Decision Support System (All Depts)*
- d) *Science DTH: Learning Solutions (All Departments)*
- e) *Tourism: Home Stay/Serviced Apartments-Decision Tool (Civil/CSE/ISE/MCA)*
- f) *Water: Cost Effective Desalination Plant for Coastal Zone Living/Agriculture (All Depts)*
- g) *Conservation and Two-way Transportation of Fresh Water along the Coast for Long Distance: Alternate Proposal to Inter-Linking of Rivers (Civil/All Depts)*
- h) *Smart Agriculture: IoT for Agriculture (All Depts)*
- i) *Virtual Reality-Augmented Reality for Education/Training/Entertainment (All Depts)*
- j) *Affordable Health Care: Portable Devices/System for Rural Health Care (All Depts)*
- k) *Power Generation Using Waves (All Depts)*
- l) *Fuel Cell Projects (All Depts)*
- m) *Student Satellite Project (All Depts)*
- n) *Applications of Satellite Images for Domestic Needs/Urban Planning/Water Tables/ Crop Monitoring etc (All Depts)*


Dr. K. GOPALAKRISHNAN
Dean (R&D)-NHCE




Dr. Manjunatha
Principal
New Horizon College of Engineering
Ring Road, Bellandur Post, Near Marathahalli,
Bangalore - 560 103

NEW HORIZON COLLEGE OF ENGINEERING

Research Advisory Board (RAB)

Proceedings of the Meeting held at Conference Room, NHCE on
25 October 2017 Wednesday 14:30 hrs

Members Present:

1. Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
2. Padma Shri. Dr. Mylswamy Annadurai, *Special Invitee*
3. Prof. E.S. Dwarakadasa
4. Dr. N. Mohandas
5. Dr. R. Venkatesan
6. Dr. L. V. Muralikrishna Reddy
7. Dr. Wooday P Krishna
8. Dr. J. Ramkumar
9. Dr. S. Ravichandran
10. Dr. G. Prabhukumar
11. Dr. Manjunatha
12. Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

Leave Absence Granted: *Dr. V. S. Somanath, Dr. K. Ramachandra, Dr. K. Venkatesh,
Mr. S.M. Jamkhandi and Dr. M.R. Pranesh*


DECISIONS:

The Research Advisory Board has Decided the following unanimously after due deliberations:

1. Appreciated the Successful Students' Team who have Won the UC Berkeley-AP Smart India Hackathon-2017, under "Entrepreneurship Category" held during August 29-31, Vijayawada, AP.
2. Decided to Conduct Karnataka Smart Village Hackathon- Review of Preparations- Accommodation -Inauguration-Minute by Minute Programme- Any other Items
3. Coordinate the IBM OpenPOWER-DL/ML Expert's Visit to NHCE on 9 Feb
4. Initiate Students Satellite Programme at NHCE as suggested by Padma Shri. Dr. Mylswamy Annadurai, *Project Director, Chandrayaan 1 & 2 and Mars Orbiter Mission (MOM)-Mangalyaan*
5. Establish Tinkering Lab: *Chairman has also Approved it!*
6. Organise Interdisciplinary International Conference with Foreign Speakers: *Chairman has also Approved it!*
7. RAB has Appreciated the efforts of Dean (R&D) for Filing Patents as planned and Reviewed the Patents Filed, Progress have Made with reference to Sponsored Research/Consultancy Projects & Publications and then Appreciated the R&D Cell for its significant interventions at Department Level at NHCE!


Dr. K. GOPALAKRISHNAN
Dean (R&D)-NHCE




Dr. Manjunatha
Principal
New Horizon College of Engineering
Ring Road, Bellandur Post, Near Marathahalli,
Bangalore - 560 103

NEW HORIZON COLLEGE OF ENGINEERING

Research Advisory Board (RAB)

Proceedings of the Meeting held at Conference Room, NHCE on
07 Feb 2018 Wednesday 14:30 hrs

Members Present:


1. Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
2. Prof. E.S. Dwarakadasa
3. Dr. M.R. Pranesh
4. Dr. N. Mohandas
5. Dr. R. Venkatesan
6. Dr. L. V. Muralikrishna Reddy
7. Dr. Wooday P Krishna
8. Dr. K. Ramachandra
9. Dr. J. Ramkumar
10. Dr. S. Ravichandran
11. Dr. G. Prabhukumar
12. Dr. Manjunatha
13. Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

Leave Absence Granted: *Dr. V. S. Somanath, Dr. K. Venkatesh and Mr. S.M. Jamkhandi*

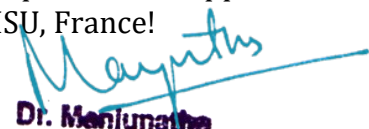
DECISIONS:

1. It is decided to encourage the Students' Satellite Team Members to participate in **International CanSat/Rocketry Championship** to be held at Serbia during October 2019. Preliminary trainings as required need to be supported by NHCE.
2. Decided to Organise AgRuTech Hackathon 2018 and Accelathon 2.0 Hackathon etc at NHCE during 2018-19 Academic Year!
3. Decided to be part of **Indo-Israel ITCA's Delegation: Global Technology Cooperation Initiatives with Israel** (03-08 June 2018) and arrange the interaction with Mr. Ofir Akunis, Israel's Minister of Science. Technology and Space at the Israeli Parliament "Knesset" on 06 June 2018.
4. **Decided to Publish "Compendium of Students' Satellites" with the support of World Federation of Engineering Organisations (WFEO)** and Indian Technology Congress Association (ITCA) with ISBN: 978-93-84893-88-0, to be Edited by **Dr. K. Gopalakrishnan**. The Compendium shall be Compiled by NHCE Students and to be Released by Hon'ble CM of Karnataka on 05 September 2018 at NIMHANS Convention Centre, Bangalore.
5. **Decided to initiate "75 Students' Satellite Consortium" under the Guidance of Dr. K. Gopalakrishnan, Dean (R&D)-NHCE** and also decided to Organise "**1st International Seminar on Students' Satellites**" in association with ITC 2018 and other Professional Bodies during 05-06 September 2018 at NIMHANS Convention Centre, Bangalore. He will be the Convener of "**75 Students' Satellite Consortium: Mission 2022!**"

6. **Decided to Sponsor 13 Students of NHCE who have gone for International Internship at France to Participate in IBM Hackathon at Netherlands** and the Visit to Rome Sapienza University, Italy. NHCE Students (13) will participate in IBM OpenPOWER Summit Europe and Netherlands Hackathon to be held at Netherlands (Amsterdam) during 06-07 October 2018.
7. **Decided to Sponsor NHCE Students (3) for Visiting Rome Sapienza University, Italy** during 24-26 November 2018 and to explore the possibilities collaborations/ interactions on space debris research projects etc with Prof. Fabio Santoni.
8. **Decided to strengthen the ITCA-Israel Tie-ups: Dr. K. Gopalakrishnan, Dean (R&D)-NHCE** has established active working relationships with Israel. ITCA has planning to coordinate **2nd Indo-Israel Delegation Visit to Israel** during 10-16 November 2018 to explore the funding opportunities at Israel for EEs. It is approved by RAB and noted the progress with appreciation.
9. **Authorized Dr. K. Gopalakrishnan, Dean (R&D)-NHCE** to Organise “**2nd International Programme on Students’ Satellites: Mission 2022**” during 28-29 Nov 2018 in association with ITCA and UNISEC India at FKCCI Auditorium, Bangalore as Organising Secretary.
10. **Decided to provide an Opportunity and also provide Financial Support/ Sponsorship** for **SIX** of our NHCE Students who have got selected to participate in World Famous “**The International Summer Space School: Future Space Technologies and Experiments in Space**” held at **Samara National Research University, Samara, Russia** during **17-29 June 2019**. FIVE of them will participate in this Summer School at Russia; even our Chairman has sponsored part of their expenses.
11. **Authorized Dr. K. Gopalakrishnan, Dean (R&D)-NHCE** for establishing the Chapter of **University Space Engineering Consortium (UNISEC) India** and Approved his candidature as **the Secretary General and Point of Contact** for the **Global Activities**. <http://www.unisec-global.org/pointofcontact.html>.
12. Decided to network with D’Vine Research Labs (DRS) and encourage them to NHCE as Start-up.
13. Three of our Students Mr. Nihkil, Mr. Denzel and Ms. Bhavana from New Horizon College of Engineering, Bangalore have been selected for **Attending 6th Global Meet of UNISEC** and presenting at International Space University, France. NHCE Students will Represent UNISEC India at International Space University, Strasbourg, France during 6th UNISEC Global Meeting as the Representatives of Indian Student Community! They will also present reports of activities during the Global Meet! University Space Engineering Consortium (UNISEC)- India has been repressed by our Delegates at 6th UNISEC Global Meeting held at International Space University (ISU), Strasbourg, France during 19-21 November 2018! UNISEC Global Head Quarters is situated at Japan. UNISEC India Chapter will be Approved formally and to be Inaugurated during the Global Meet at ISU, France!


Dr. K. GOPALAKRISHNAN
 Dean (R&D)-NHCE




Dr. Manjunatha
 Principal
New Horizon College of Engineering
 Ring Road, Bellandur Post, Near Marathahalli,
 Bangalore - 560 103

NEW HORIZON COLLEGE OF ENGINEERING

Research Advisory Board (RAB)

Proceedings of the Meeting held at Conference Room, NHCE on
19 September 2018 Wednesday 11:30 hrs

Members Present:


1. Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
2. Prof. E.S. Dwarakadasa
3. Dr. M.R. Pranesh
4. Dr. N. Mohandas
5. Dr. R. Venkatesan
6. Dr. L. V. Muralikrishna Reddy
7. Dr. Wooday P Krishna
8. Dr. V. S. Somanath
9. Dr. K. Venkatesh
10. Dr. K. Ramachandra
11. Dr. G. Prabhukumar
12. Dr. Manjunatha
13. Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

Leave Absence Granted: Dr. J. Ramkumar, Dr. S. Ravichandran and Mr. S.M. Jamkhandi


DECISIONS:

The RAB has Congratulated the Dean (R&D) for the Successful Implementation of the following Decisions:

1. **Indo-Israel ITCA's Delegation: Global Technology Cooperation Initiatives with Israel** (03-08 June 2018) and the fruitful interaction of Dr. K. Gopalakrishnan, Dean (R&D), NHCE with **Mr. Ofir Akunis**, Israel's Minister of Science, Technology and Space at the Israeli Parliament "Knesset" on 06 June 2018.
2. **Published the "Compendium of Students' Satellites" with the support of World Federation of Engineering Organisations (WFEO)** and Indian Technology Congress Association (ITCA) with ISBN: 978-93-84893-88-0, Edited by **Dr. K. Gopalakrishnan**. The Compendium was Compiled by NHCE Students and Released by Hon'ble CM of Karnataka on 05 September 2018 at NIMHANS Convention Centre, Bangalore.
3. **Dr. K. Gopalakrishnan, Dean (R&D)-NHCE has founded the "75 Students' Satellite Consortium"** and also Organised "**1st International Seminar on Students' Satellites**" in association with ITC 2018 and other Professional Bodies during 05-06 September 2018 at NIMHANS Convention Centre, Bangalore. He was the Convener of "**75 Students' Satellite Consortium: Mission 2022!**"
4. It is decided to organise Inter-disciplinary International Conference at NHCE with International participations of delegates.
5. Decided to encourage the International Internships for deserving "smart students of NHCE" at Various European Countries/Russia/USA/Canada for deserving students with the support of NHCE.


Dr. K. GOPALAKRISHNAN
Dean (R&D)-NHCE




Dr. Manjunatha
Principal
New Horizon College of Engineering
Ring Road, Bellandur Post, Near Marathahalli,
Bangalore - 560 103

NEW HORIZON COLLEGE OF ENGINEERING

Research Advisory Board (RAB)

Proceedings of the Meeting held at Conference Room on 28 Jun 2019, Friday @ 15:30 hrs


Members Present:

1. Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
2. Prof. E.S. Dwarakadasa
3. Dr. M.R. Pranesh
4. Dr. N. Mohandas
5. Dr. R. Venkatesan
6. Dr. L. V. Muralikrishna Reddy
7. Dr. Wooday P Krishna
8. Dr. G. Prabhukumar
9. Dr. Manjunatha
10. Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

Leave Absence Granted: *Dr. J. Ramkumar, Dr. S. Ravichandran, Mr. S.M. Jamkhandi, Dr. V. S. Somanath, Dr. K. Venkatesh and Dr. K. Ramachandra*

DECISIONS:

1. **Decided to provide** an Opportunity and also provide Financial Support/Sponsorship for **6 of our NHCE Students** to part of **2nd Indo-Israel Space Tech Leadership Programme held at Israel during 26-31 May 2019**. FIVE of them will participate in this delegation; even our Chairman has agreed to sponsor part of their expenses. *(6th Student has joined duty with IBM on regular scale, hence, he could not avail leaves to be part of this delegation. Appreciated the Dean R&D who is instrumental in getting these boys Internship at IBM, USA and at IIT Kanpur during May 2018 which has led to his selection at IBM-Off Campus Placement Interview again coordinated by Dean R&D through his links at IBM).*
2. Appreciated the Success of NHCE Students (13) who have Sponsored and participated in IBM OpenPOWER Summit Europe and Netherlands Hackathon held at Netherlands (Amsterdam) during 06-07 October 2018-**NHCE Students' Won 2 Awards**. This event has paved the way and instrumental for IBM has agreed to establish IBM OpenPOWER AI Centre of Excellence at NHCE! RAB has Congratulated Dr. K. Gopalakrishnan, Dean (R&D) for his sensible interventions!
3. Congratulated the NHCE Students (3) who have Visited Rome Sapienza University, Italy during 24-26 November 2018 and had interactions with Prof. Fabio Santoni and he has agreed to attend the International Conference to be held at NHCE during Dec 2019!
4. Appreciated the efforts of IPR related activities and Strat-up Initiatives at NHCE by R&D Cell.
5. Suggested to conduct Orientations and Workshops to sensitize the faculty members with respect to the Quality Metrics of Publications with Quality Journals!


Dr. K. GOPALAKRISHNAN
Dean (R&D)-NHCE




Dr. Manjunatha
Principal
New Horizon College of Engineering
Ring Road, Bellandur Post, Near Marathahalli,
Bangalore - 560 103

NEW HORIZON COLLEGE OF ENGINEERING

Research Advisory Board (RAB)

Proceedings of the Meeting held at Conference Room on 25 Oct 2019, Friday at 11:30 hrs


Members Present:

1. Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
2. Prof. E.S. Dwarakadasa
3. Dr. M.R. Pranesh
4. Dr. N. Mohandas
5. Dr. R. Venkatesan
6. Dr. L. V. Muralikrishna Reddy
7. Dr. Wooday P Krishna
8. Dr. V. S. Somanath
9. Dr. K. Venkatesh
10. Dr. J. Ramkumar
11. Dr. K. Ramachandra
12. Mr. S.M. Jamkhandi
13. Dr. G. Prabhukumar
14. Dr. Manjunatha
15. Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*

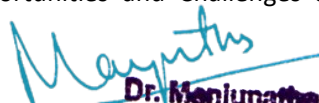
Leave Absence Granted: *Dr. S. Ravichandran*

DECISIONS:

1. Congratulated Dr. K. Gopalakrishnan, Dean (R&D)-NHCE who have identified potential students from current final years and have fielded them as Competition Teams after 2 months of training and interventions for 2019 SERBIA CANSAT COMPETITION held at Serbia during 04-06 October 2019. FOUR of NHCE Team have been shortlisted for the Final Competition among other teams from various Countries! NHCE Teams Won GOLD and SILVER Medals in the Competition and also all the FOUR Teams have received UNISEC Global Jury Award as well! Dean (R&D) have also successful in arranging the sponsorship through ITCA and UNISEC India Chapters!
2. **Provided an Opportunity for NHEI for Collaboration with Israel Satellite Launching at PSLV, India (October/November 2019 Launch with PSLV, India)**
The Israeli Student Satellite **Duchifat-3** is an experimental and educational spacecraft developed and built by students of secondary schools at the Space Laboratory of the Herzliya Science Centre (HSC), Israel. It is built to the 3U CubeSat standard (10 cm x 10 cm x 30 cm with an Approximate Cost: USD 1.5 Million-Rs. 9-10 Cr in Last 1-2 Years. Approximate Mass of Satellite: 2.5 kg) under the Guidance of **Dr.Meir Ariel**, Director, Nano Satellite Centre, Tel Aviv University, Israel and Director, Herzliya Science Centre, Israel who have instrumental for the design of longest serving Nano Satellite in orbit.
 - Opportunity to Launch Jointly as Member of ITC 75 Students' Satellites Consortium by Supporting minimum 1/6 of the Launch Cost to the tune of up to Rs.25 Lakhs! However, negotiations are underway with ISRO-NSIL through our network to optimize/finalize the cost of Launch! It was also approved by ExCom Meeting held during 04 & 08 April 2019.
3. Established UNISEC India Chapter at NHCE and Inaugurated by **Padma Shri Prof. R. M. Vasagam** during National Seminar on New Space-An Era of Small Satellites: Opportunities and Challenges at our Auditorium, NHCE.


Dr. K. GOPALAKRISHNAN
Dean (R&D)-NHCE




Dr. Manjunatha
Principal
New Horizon College of Engineering
Ring Road, Bellandur Post, Near Marathahalli,
Bangalore - 560 103

NEW HORIZON COLLEGE OF ENGINEERING

Research Advisory Board (RAB)

Proceedings of the Meeting held at Conference Room on 09 Jan 2020, Thursday at 10.30 hrs

Members Present:

1. Padma Shri. Prof. R. M. Vasagam, *Chairman, Research Advisory Board*
2. Prof. E.S. Dwarakadasa
3. Dr. M.R. Pranesh
4. Dr. N. Mohandas
5. Dr. R. Venkatesan
6. Dr. L. V. Muralikrishna Reddy
7. Dr. Wooday P Krishna
8. Dr. V. S. Somanath
9. Dr. S. Ravichandran
10. Dr. K. Venkatesh
11. Dr. G. Prabhukumar
12. Dr. Manjunatha
13. Dr. K. Gopalakrishnan, *Member Secretary, Research Advisory Board*


Leave Absence Granted: Dr. J. Ramkumar, Dr. K. Ramachandra and Mr. S.M. Jamkhandi

DECISIONS:


1. Recommended the following Metrics to be followed for Research Publications @ NHCE:
 - a) *Google Scholar*
 - b) *Web of Science*
 - c) *Scopus*
 - d) *PUBMED*
 - e) *FT45/FT50*
 - f) *Research ID*
 - g) *ORCID ID*
 - h) *"h" Index*

Decided to Circulate the details of the above Metrics and respective Agencies etc among the Faculty Members of NHCE.

2. Suggested to conduct the detailed Objective Evaluation of the R&D Training Requirements at Departments of NHCE as per the Guidelines/Format Provided by the RAB of NHCE.
3. Recommended Self Evaluation Format for Faculty Members regarding their own Progress/continuous Improvement with reference to "R&D Performance Evaluation Metrics"


Dr. K. GOPALAKRISHNAN
Dean (R&D)-NHCE




Dr. Manjunatha
Principal
New Horizon College of Engineering
Ring Road, Bellandur Post, Near Marathahalli,
Bangalore - 560 103

Publication Metrics and Respective Agencies/Companies Responsible for Calculation

Metrics	Parent Organisation/ Company	Description
Google Scholar	Google Inc	Google Scholar Citation
Web of Science	Thomson Reuters Inc	Web of Science is an online subscription-based scientific citation indexing service originally produced by the Institute for Scientific Information, now maintained by Clarivate Analytics, that provides a comprehensive citation search. Web of Science provides you access to the most reliable, integrated, multidisciplinary research connected through linked content citation metrics from multiple sources within a single interface. And since Web of Science adheres to a strict evaluation process, you can be assured only the most influential, relevant, and credible information is included - allowing you to uncover your next big idea faster. (90 million+ records)
Scopus	Elsevier Inc	Scopus is the largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Delivering a comprehensive overview of the world's research output in the fields of science, technology, medicine, social sciences, and arts and humanities, Scopus features smart tools to track, analyze and visualize research. Scopus is Elsevier's abstract and citation database launched in 2004. It is the world's largest abstract and citation database of peer-reviewed research literature. (69 million+ records)
PUBMED	National Center for Biotechnology Information, USA	PubMed is a free search engine accessing primarily the MEDLINE database of references and abstracts on life sciences and biomedical topics. (27 million Citations)
FT45/FT50	Financial Times Rank Research	This was the "FT 45" list, which was expanded in 2016 and now it is the FT50 list.
Research ID	Thomson Reuters Inc	ResearcherID is an identifying system for scientific authors. The system was introduced in January 2008 by Thomson Reuters. This unique identifier aims at solving the problem of author identification.
ORCID ID	Non-Profit Organization <i>Connecting Research and Researchers</i>	ORCID is a nonproprietary alphanumeric code to uniquely identify scientific and other academic authors and contributors. ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized.
"h" Index	Open Tool	The h-index is an author-level metric that attempts to measure both the productivity and citation impact of the publications of a scientist or scholar. The index was suggested in 2005 by Jorge E. Hirsch, a physicist at UCSD, as a tool for determining theoretical physicists' relative quality and is sometimes called the <i>Hirsch index</i> or <i>Hirsch number</i> . Hirsch suggested that, for physicists, a value for <i>h</i> of about 12 might be typical for advancement to tenure (associate professor) at major research universities. A value of about 18 could mean a full professorship, 15–20 could mean a fellowship in the American Physical Society , and 45 or higher could mean membership in the United States National Academy of Sciences .
"i-10" Index	Google Inc	Created by Google Scholar and used in Google's My Citations feature. i10-Index = the number of publications with at least 10 citations. This very simple measure is only used by Google Scholar, and is another way to help gauge the productivity of a scholar.
SJR	SCImago Journal & Country Rank	SCR lets you view journal rankings by subject category, to view a variety of indicators (including the SCR Rank and H-index) for individual journals, and to compare journals to each other

Objective^ Evaluation of the R&D Training Requirements of Individual Faculty Members at Departments

- A. How to write research papers for Journals/Conferences?(5 = Know Very well; Do not Know = 1)
 B. How to write and publish books with ISBN/book chapters?(5 = Know Very well; Do not Know = 1)
 C. Where can I get the details of R&D Grants availability for Engineering College Faculty Members?(5 = Know Very well; Do not Know = 1)
 D. Where can I get the details of funding agencies and their formats for applying?(5 = Know Very well; Do not Know = 1)
 E. How to write Proposals for Sponsored Research Organisations?(5 = Know Very well; Do not Know = 1)
 F. Do you need help in correcting your R&D Proposals before submitting to funding agencies?(5 = Know Very well, hence not required; Do not Know, hence, required = 1)
 G. How to understand the difference between Sponsored Research Projects and Consultancy Projects?(5 = Know Very well; Do not Know = 1)

Kindly mark your current skills as applicable to the above questions: Likert Scale: 1, 2, 3, 4, 5; For Example, Question "A", if you know very well, how to write a paper then mark, "5"; if you do not know, how to write a paper, then mark "1". Similarly, based on the degree/level of your understanding/knowledge about the questions, you can choose

R&D Related Training Requirements of Faculty Members Vs Total Faculty Members in the Departments @ NHCE

Name of the Department	A. How to Write Research Papers for Journals/Conference	B. How to Write and Publish Books with ISBN	C. Where R&D Grants are Available for Faculty Members	D. Names of Funding Agencies and their Formats	E. How to Write Proposals for Funding Projects	F. How to Correct your R&D Proposal Before Submission	G. Difference Between Sponsored and Consultancy Projects	Specific Requirements
MBA	-	-	7/10	7/10	5/10	5/10	5/10	How to Apply and Get R&D Grants and Consultancy
CSE	5/31	17/31	20/31	21/31	21/31	22/31	17/31	R&D/Consultancy Proposal Writing
Auto	-	6/7	7/7	7/7	4/7	4/7	4/7	-
Maths	-	1/13	4/13	7/13	9/13	9/13	12/13	Guidance in Writing R&D Proposal and Patent Filing
MCA	-	3/10	6/10	6/10	9/10	10/10	8/10	Training for How & Where to Get R&D Grants and Consultancy
EEE	-	14/21	7/21	11/21	8/21	10/21	7/21	Training for How & Where to Get R&D Grants and Consultancy
Mechanical	-	8/33	10/33	10/33	16/33	15/33	3/33	Training for How & Where to Get R&D Grants and Consultancy
Chemistry	-	-	-	-	-	-	-	Liasoning with Funding Agencies and Info on Patent Filing
Civil	-	18/23	12/23	12/23	14/23	15/23	12/23	Training for How & Where to Get R&D Grants and Consultancy
ECE	3/25	13/25	15/25	15/25	16/25	17/25	15/25	Training for How & Where to Get R&D Grants and Consultancy
Physics	-	1/7	-	-	1/7	4/7	2/7	Simulation, Monte-Carlo, DFT Techniques & Python Program
ISE	-	-	-	-	-	-	-	R&D/Consultancy Proposal Writing, Books & Patent Filing
Total	8/202	81/202	88/202	96/202	103/202	111/202	85/202	

Note: 3 HoDs of CSE, ECE & ISE has not given their own self assessment. May be they will take care of themselves! However, All Other 9 HoDs have given their Own Self Assessments, out of 12 HoDs!

Objective[^] Evaluation of the R&D Training Requirements of Individual Faculty Members at Departments

- A. How to write research papers for Journals/Conferences?(5 = Know Very well; Do not Know = 1)
 B. How to write and publish books with ISBN/book chapters?(5 = Know Very well; Do not Know = 1)
 C. Where can I get the details of R&D Grants availability for Engineering College Faculty Members?(5 = Know Very well; Do not Know = 1)
 D. Where can I get the details of funding agencies and their formats for applying?(5 = Know Very well; Do not Know = 1)
 E. How to write Proposals for Sponsored Research Organisations?(5 = Know Very well; Do not Know = 1)
 F. Do you need help in correcting your R&D Proposals before submitting to funding agencies?(5 = Know Very well, hence not required; Do not Know, hence, required = 1)
 G. How to understand the difference between Sponsored Research Projects and Consultancy Projects?(5 = Know Very well; Do not Know = 1)

Kindly mark your current skills as applicable to the above questions: Likert Scale: 1, 2, 3, 4, 5; For Example, Question "A", if you know very well, how to write a paper then mark, "5"; if you do not know, how to write a paper, then mark "1". Similarly, based on the degree/level of your understanding/knowledge about the questions, you can choose

Assessment Parameters Related to Publications, R&D Grants, Consultancy Etc.		A. How to write research papers for Journals/Conferen ce					B. How to write and publish books with ISBN					C. Where R&D Grants are available for faculty Members					D. Names of funding agencies and their formats					E. How to write Proposals for Funding Projects					F. How to correct your R&D Proposal before submission					G. Difference between Sponsored and Consultancy Projects					Do you require any training with ref to your R&D skill set, if so, What is that? Specify your requirement. (if you need more space, write below the table)*	
Name of the Faculty Member	Designation	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1		
Department of Management																																						
Dr.Sheelan Misra	Prof & HoD	5						4					4					4					5					4				5						How to procure consultancy
Dr. Sainath Ambedkar Ramoji Rao	Professor		4						3					3						3			4					4					3					How to write and publish books with ISBN.
Dr. Priyameet Kaur Keer	Assoc Professor		4					4						3						3				3					3				3					Various R&D funding/ Consultancy projects
Mr.Santosh Kumar S	Sr. Asst Professor		4					4							2					2				2				3					3					How to get funded projects. Links for the reference.
Mr.Lokesh K N	Sr. Asst Professor		4					4							2					2				2				3					3					Handholding in writing & publishing books research proposal
Mr.Sheshu A	Sr. Asst Professor			3					3						2					2				2					2					2				Rising fund for project/consultancy
Mr.Srikanth Rajath K G	Sr. Asst Professor			3					3						2					2				2					2					2				consultancy
Ms.Pavithra S	Asst Professor		4					4							2					2				2					2					2				R&D grants
Ms. Jayashree N	Asst Professor		4					4							2					2				2					2					3				R&D grants
Ms. Saumi Roy	Asst Professor		4						3						2					2				2					2					3				R&D grants
Department of CSE		5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1		
Dr. Pamela Vinitha Eric	Professor	✓						✓											✓				✓					✓					✓					Consultancy, Availability of Research Grants
Dr. Clara Kanmani A	Associate Prof	✓						✓											✓				✓					✓					✓					Consultancy, Availability of Research Grants
Dr. Thirukkumaran R	Associate Prof	✓						✓											✓				✓						✓					✓				Research proposal writing
Dr. Sridevi S	Associate Prof	✓							✓						✓								✓						✓						✓			Consultancy, Availability of Research Grants
Dr.Vinodha K	Associate Prof					✓	✓								✓	✓					✓						✓					✓						Proposals for Funding Projects and Grants
Dr. Rachana P	Associate Prof	✓													✓					✓							✓					✓				✓		Research proposal writing
Mr. Siva Balan N	Sr.Asst Prof	✓									✓					✓					✓						✓					✓	✓					Consultancy and Research proposal writing
Dr. Jaya R	Sr.Asst Prof	✓						✓					✓								✓						✓					✓				✓		Research proposal writing
Ms. Asha Rani Borah	Sr.Asst Prof	✓						✓					✓							✓				✓					✓						✓			Research proposal writing
Ms. Shanmuga Priya S	Sr.Asst Prof					✓									✓						✓						✓					✓				✓		Research proposal writing
Ms. Pramilarani K	Sr.Asst Prof	✓							✓						✓						✓					✓				✓						✓		Research proposal writing
Ms. Padmapriya M K	Sr.Asst Prof			✓						✓						✓					✓					✓				✓					✓			Research proposal writing
Ms. Alpha Vijayan	Sr.Asst Prof			✓							✓					✓					✓					✓				✓					✓			Research proposal writing
Ms. Soja Rani S	Sr.Asst Prof			✓						✓						✓					✓					✓				✓					✓			Research proposal writing
Mr. Santosh Kumar B	Sr.Asst Prof			✓					✓						✓						✓					✓						✓				✓		Consultancy project and Research proposal writing
Ms. Deepti Rai	Sr.Asst Prof			✓					✓						✓						✓					✓				✓						✓		Research proposal writing
Ms. Suganya.R	Sr. Asst Prof	✓									✓					✓					✓					✓						✓				✓		Proposals for Funding Projects and Grants

Mr. Manjunatha Swamy C		Sr. Asst Prof				√																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</
------------------------	--	---------------	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

Mr. Govindaraju M	Sr. Asst Professor			✓					✓				✓					✓					✓				✓				✓	Yes- C,D,E,F & G
Mr. Vishwanatha C R	Sr. Asst Professor			✓					✓				✓					✓					✓				✓				✓	Yes- C,D,E,F & G
Mrs. Jincy C Mathew	Asst. Professor			✓				✓					✓					✓					✓				✓				✓	Yes- C,D,E,F & G
Mrs. Kavitha S N	Asst. Professor			✓				✓					✓					✓					✓				✓				✓	Yes- C,D,E,F & G
Mrs. Anu Bala	Asst. Professor			✓					✓				✓					✓					✓				✓				✓	Yes- C,D,E,F & G
Department of EEE		5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	
Dr. Guna Priya B	Asso.prof			3					2				2				3					3					1				1	How to write Proposals for Funding Projects & Sponsored and Consultancy Projects *
Dr. Vinoth Kumar	Asso.prof	5					5						3				4					4				3				4		Nil
Mr. Inbasakaran S	Sr.Asst Prof		4					3					3				3					3				3				3		Nil
Ms. Karthika M	Sr.Asst Prof	5						2					4				4					4				3				3		Nil
Mr. Joshua Daniel Raj	Sr.Asst Prof		4						1				2									2					1			2		Funding Agencies, Proposal Writing and related software training
Mr. Satish Kumar D	Sr.Asst Prof			3				3					4				4					3					1			2		Yes
Mr. Muni Prakash. T	Sr.Asst Prof		4					3					3									3				3				3		Nil
Mr. Mohan B.S	Sr.Asst Prof		4						1				3									2					1			3		I want to do some consultancy projects.
Ms. Deepa V.Bolanavar	Sr.Asst Prof		4						2				3					3								3			5			Yes we require training on different funding agencies criteria and how to proceed, and Book writing
Mr. Vinod Kumar S	Sr.Asst Prof			3					2					1								1					2			3		Patent Filing Process Can Be Added
Dr. Prasanth Ram j	Sr.Asst Prof	5						3						1								3				3				3		Nil
Dr. Mohan Dass.R	Sr.Asst Prof			3				3					3					3				4				3				3		Yes for Funding Projects
Dr. Singaravelan.A	Sr. Asst Prof	5							2				2									2					2			2		Yes, I need training for Book publication and research fund proposal.
Ms. Kavitha Channa Reddy	Sr. Asst Prof			3					1					1								2					1			2		Yes we need training
Mr.Sunil S K	Sr. Asst Prof	5					4										5					4				4				4		R&D funding
Mr. Ramakrishnan.S	Asst Prof 2			3					1				2												1		1			3		Yes
Dr. N Prabhakaran	Sr. Asst Prof	5						3						1								3				3				3		How to write proposals for funding agencies.
Mr. Lithesh J	Asst Prof 2		4					3					3					3				3				3				3		Nil
Ms. Roopa.C	Asst Prof 2			3					1					1								2					1			2		Yes, Starting from proposal writing, funding agenesis, proposal correction and also how to make patenting of project.
Ms. Anitha A	Asst Prof 2		4					3					4				4								3					3		Licensed Software (PSCAD, Lab view) and Training on Hardware setup (proto type)
Ms .Rashmi N	Asst Prof 1		4						2				3									2				2				2		Yes
Department of Mechanical		5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	
Dr. M.S Ganesha Prasad	Dean, Professor & HoD	ü					ü					ü					ü					ü				ü				ü		
Dr. Gopalakrishnan. K	Dean, R&D	ü					ü					ü					ü					ü				ü				ü		
Dr. B. Viswanath	Professor		ü				ü					ü					ü					ü				ü				ü		Require help for Research proposals and Consultancy projects
Dr. Priyabrata Adhikary	Professor		ü				ü					ü					ü					ü				ü				ü		Liasoning with DST / AICTE
Dr. Ashok Kumar	Associate Professor	ü					ü					ü					ü					ü				ü				ü		
Dr. K Gopal	Associate Professor	ü					ü					ü					ü					ü				ü				ü		Training - Proposals Writing
Dr. Srinath. M.K	Associate Professor	ü					ü					ü					ü					ü				ü				ü		
Dr. Hemanth Raju T	Associate Professor	ü					ü					ü					ü					ü				ü				ü		Training required to write the proposals for funding projects
Dr. Nagendra.J	Sr. Assistant Professor	ü					ü					ü					ü					ü				ü				ü		Not required
Dr. Aditi Raj	Sr. Assistant Professor		ü				ü					ü					ü					ü				ü				ü		
Mr. Shiva Prakash. S	Sr. Assistant Professor		ü				ü					ü					ü					ü				ü				ü		Training required for sponsored and consultancy projects
Mr. Raghu Tilak Reddy	Sr. Assistant Professor	ü					ü					ü					ü					ü				ü				ü		
Mr. Ravi Kumar . M	Sr. Assistant Professor	ü					ü					ü					ü					ü				ü				ü		Not required
Mr. Nagabhushana. N	Sr. Assistant Professor		ü				ü					ü					ü					ü				ü				ü		

[illegible]

Mr. Channabasava		Asst Professor	√							√				√					√				√				√				B, C, E, F & G				
Mr. Yogesh K S		Asst Professor	√							√				√					√				√				√				B, C, E & F				
Mr. Rahul N K		Asst Professor		√						√									√							√					B, C, D, E, F & G				
Ms. Geethu V		Asst Professor	√						√				√					√				√				√					B, C, D, E, F & G				
Mr. Satish D		Sr. Asst Professor	√							√			√						√				√				√				B, C, D, E, F & G				
Department of ECE			5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1			
Dr. B. Mohan Kumar Naik		Professor		4					4						3							3					3			4		Kindly on effective R&D grant proposal write up and submission.			
Dr. K C R Nisha		Professor	√						√				√				√				√				√				√			Guidelines laid down for consultancy work How to effectively implement the projects with available resources and facilities to achieve desirable outcomes and deliverables			
Dr. Jayanthi M		Assoc Professor	5						3					2						2					2				1			1	Yes. Writing proposal for funding projects and requirement of research organizations		
Dr. Reema Sharma		Assoc Professor		4					3				4					4					3				3			4			How to improve proposal writing skills so that it gets selected?		
Dr. Piruthiviraj P		Assoc Professor									√			√						√					√						√		Patent Publish,		
Dr. Dhivya M		Assoc Professor		4				5					4							3					3					3					
Dr. A B Gurulakshmi		Assoc Professor		4					3					3					4				4				4				3				
Dr. Aravinda K		Sr. Asst Professor	5						4					3						3					3				2			2		Require training wrt Grants	
Dr. Naveen H		Sr. Asst Professor		4							1			2					2				3					2			3			Training on Patent Drafting, Training on effective technical writing	
Ms. Ishani Mishra		Sr. Asst Professor			√					√				√						√						√			√			√		How to publish papers in reputed journals ,how to write proposals in an effective manner. Training program should be conducted related to publications in reputed journal, writing research proposals and so on.	
Ms. Divya Sharma		Sr. Asst Professor			√					√				√						√								√				√		How to write and publish papers in SCI, IEEE and equivalent journals. Also would like to learn more on writing proposals	
Ms. Lipsa Dash		Sr. Asst Professor	√						√					√						√					√				√					Require inputs on how to write proposals	
Ms. Monika Gupta		Sr. Asst Professor			3							2				1							1			1				1			1		The training on patent drafting would help us in applying for patents.
Mr. Rajesh G		Sr. Asst Professor			3								1						2						2						3				
Mr. Ashok K		Sr. Asst Professor		4									1						1						1					1		2		Regarding how to apply for patents and research grants	
Ms. Daliya V K		Sr. Asst Professor		4								1				2							3					3				2		Training on scientific paper writing, patent filing, consultancy and sponsored projects	
Mr. Santhosh Krishna B V		Sr. Asst Professor			3					4					2								2					3				3		If provided will be better is what I feel.	
Ms.Ramanamma P		Asst Professor				2					4				1									1					1				1		YES.
Mr. karthik C V		Asst Professor			3							2			2								2					2				2			Yes. I would like to know how to write project proposals for funding projects.
Mr. Rajiv Gopal		Asst Professor			3								1		3									2				2				2			Yes required. With respect to being more active in R & D and contributing to the society.
Mr. Richard Lincoln Paulraj		Asst Professor			3						2				2									1			1					1		1	I would be willing to get trained on how to write the research papers effectively with minimum flaws
Ms. Tessy Tomy		Asst Professor				2							1						1						1				1				1		
Ms. Mamta B Savadatti		Asst Professor			√					√				√						√					√				√			√			
Mr. Deepak Kumar S N		Asst Professor			3						2				3									2				2				3			Yes , On how to get funded projects
Mr. Anush G R		Asst Professor				2						2				1									2				2				2		Yes I feel attending a training will help us understand the methodologies in a better manner.
Department of Physics			5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1	5	4	3	2	1			
Dr. Revathi V		Prof & HoD	5							4				4									4								3			Simulation techniques	
Dr. Prashanth K.S		Assoc Professor	5							4				5									4								4			Monte-Carlo, DFT Techniques	
Dr.Jisha P.K		Assoc Professor		4						4					4									3							2		3		Simulation techniques

New Horizon College of Engineering: Name of Department R&D: Performance Evaluation of Department- R&D Watch <i>R&D Activity Progress Monitoring Mechanism with Metrics: Self Evaluation by Each Department</i>								
Time Line/Out Come Activity Description	Points Per Activity	Weekly/ Points Earned	Fortnightly/ Points Earned	Monthly/ Points Earned	Quarterly/ Points Earned	Yearly/ Points Earned	Responsibility	Remarks
1. Publications								
Research Papers: Published in Journals @ 2 Points per Paper (With ISSN/Impact Factors etc)	2							
Research Papers: Published in Conference @ 2 Points per Paper (Proceedings with ISBN)	2							
Books @ 2 Points per Book	2							
Monographs/White Papers @ 2 Points per Publication	2							
"h" Index of Each Faculty @ 3 per 1 Index per Faculty	3							
"i10" Index @ 3 Points per 1 Index per Faculty	3							
Sub Total								
2. Intellectual Property Rights (IPR)								
Patents @ 5 Points per Patents	5							
Trade Marks @ 2 Points per TM	2							
Geographical Indications @ 2 Points per GI	2							
Layout-Designs of Integrated Circuits @ 2 Points per Design	2							
Industrial Designs @ 2 Points per Design	2							
Trade Secrets @ 2 Points per Trade Secret	2							
Copy Rights (rights of authors of literary and artistic works including Computer Programmes) @ 2 Points per Copy Right	2							
Sub Total								
3. Sponsored Research Projects/Grant-in-Aid: Received								
Students Min. Rs.5000/- @ 2 Points per 5K	2							
Faculty Min. Rs.25,000/- @ 3 Points per 25K	3							
Sub Total								
4. Sponsored Research Projects/Grant-in-Aid: Submitted								
Students Min. Rs.5000/- @ 0.25Points per 5K	0.25							
Faculty Min. Rs.1 Lakh @ 0.3 Points per 1 Lakh	0.3							
Faculty Min. Rs.10 Lakhs @ 3 Points per 10 Lakhs	3							

Faculty Min. Rs.100 Lakhs @ 30 Points per 1 Crore	30							
5. Consultancy Projects: Received								
Students Min. Rs.5000/- @ 2 Points per 5K	2							
Faculty Min. Rs.25,000/- @ 3 Points per 25K	3							
Sub Total								
6. Consultancy Projects: Submitted								
Students Min. Rs.5000/- @ 0.25Points per 5K	0.25							
Faculty Min. Rs.1 Lakh @ 0.3 Points per 1 Lakh	0.3							
Faculty Min. Rs.10 Lakhs @ 3 Points per 10 Lakhs	3							
Faculty Min. Rs.100 Lakhs @ 30 Points per 1 Crore	30							
Sub Total								
7. Industry Sponsored Equipment/Lab: Received								
Students Min. Rs.5000/- @ 2 Points per 5K	2							
Faculty Min. Rs.25,000/- @ 3 Points per 25K	3							
Sub Total								
8. Industry Sponsored Equipment/Lab: Submitted								
Students Min. Rs.5000/- @ 0.25Points per 5K	2							
Faculty Min. Rs.1 Lakh @ 0.5 Points per 1 Lakh	0.5							
Faculty Min. Rs.10 Lakhs @ 5 Points per 10 Lakhs	5							
Faculty Min. Rs.100 Lakhs @ 50 Points per 1 Crore	50							
Sub Total								
9. Free/Online/Advanced Labs: Established								
Students/ Faculty Activities @ 3 Points per Lab/Facility	3							
Sub Total								
10. R&D Awareness Programmes								
Participation of Min. 2 Faculty with Dean (R&D) or HoD @ 2 Points per Activity	2							
Sub Total								
11. Extra Curricular/Co curricular Activities								
Establishing Chapters of Professional Societies/Trade Bodies @ 2 Points per Activity	2							

Enhancing Team Activities/Interpersonal Skills etc –do-	2							
Sub Total								
12. Emerging Trends Watch: Alternative Teaching & Learning								
Innovations/Patents/Video Watch etc 2 Points per Activity	2							
Sub Total								
13. Industrial Visits/Industry Collaboration								
Arranging Industrial Visits/Field Training of Faculty/Students at Industries @ 3 Points per Visit	3							
B.Tech and M.Tech Mini-Major Project/Dissertation Work at Industries @ 3 Points per Activity	3							
Collaborative Training Programmes/Credit Courses –do-	3							
Companies to Take Students for Learn & Earn Programs –do-	3							
Practical Training/Pre Internship of students in Industries (Unpaid/Paid) –do-	3							
Professional Chairs sponsored by industries at NHCE –do-	3							
R&D Laboratories sponsored by industries at NHCE –do-	3							
MoU between Industries/R&D Labs/Professional/Trade Bodies	3							
Scholarships/Fellowships instituted by industries for students of NHCE –do-	3							
Short-Term Assignment/Exchange of Faculty Members in Industries –do-	3							
Expert/Professionals from Industry as Visiting Professors or Guest Lectures and delivering lectures on Industrial Best Practices & Trends –do-	3							
Sub Total								
14. Knowledge Conferences/Events: Organised/Attended								
Workshops, Conferences and Symposia @ 2 Points per Activity In House Events: Mini. 15 Students' Participation is Essential Faculty Participation in External Events: @ 2 Points per Faculty	2							
MoU between Industries/R&D Labs/Professional/Trade Bodies	2							
Having Tie-ups with Foreign Universities –do-	2							
Promote International Internship –do-	2							
Sub Total								
15. Startups: Established								

Startups by Students/Faculty Members @ 7 Points per Startup	7							
Grand Total								

New Horizon College of Engineering: Name of Department

R&D: Performance Evaluation of Department- R&D Watch

R&D Activity Progress Monitoring Mechanism with Metrics: Self Evaluation by Each Department

Spider Web Diagram/Radar Diagram to Monitor the R&D Performance of Each Department

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	Activities/Items as above
58	28	20	62	8	14	12	24	6	14	10	8	21	16	Secured Points: Week 1 (Series 1)
50	24	26	38	12	16	16	20	12	24	8	18	25	26	Secured Points: Week 2 (Series 2)

