



Sinhgad Technical Education Society's®

NBN SINHGAD TECHNICAL INSTITUTES CAMPUS

Approved by AICTE, New Delhi, Recognized by Government of Maharashtra & Affiliated to University of Pune (ID No. - PU/PN/Engg/432/2012)

Sinhgad Institutes

S. No. 10/1, Ambegaon (Budruk), Off Sinhgad Road, Pune 411041

- Tel. : +91-20-24355042 / 46, +91-20-24610880/881 • Tele Fax : +91-20-24355042 • Website : www.sinhgad.edu
- Email : nbnssoe@sinhgad.edu / nbnsoms@sinhgad.edu / nbnsocs@sinhgad.edu

PROF. M. N. NAVALE
M.E. (Elect.) M.I.E., M.B.A.
FOUNDER PRESIDENT

DR. (MRS.) SUNANDA M. NAVALE
B.A., M.P.M., Ph.D.
FOUNDER SECRETARY

DR. SHIVPRASAD P. PATIL
Ph.D. (Aarhus University, Denmark)
PRINCIPAL / DIRECTOR (I/C)

3.2: Innovation Ecosystem

3.2.1 : Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Name of the ecosystem	Category
<u>Centre for Innovation Incubation and linkage (CIIL)</u>	Innovation, Creation and transfer of knowledge
<u>Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC)</u>	Creation and transfer of knowledge
<u>Choice Based credit System</u>	
<u>Industrial Visits</u>	
<u>MoUs</u>	Innovations and has initiatives for creation and transfer of knowledge
<u>National Conference on Cognitive Computing for students</u>	Creation and transfer of knowledge
<u>Erasmus Mundus with Alborg University-Denmark</u>	Innovations and has initiatives for creation and transfer of knowledge
<u>Train the Trainers</u>	Creation and transfer of knowledge
<u>Study Leave for Course Work Completion</u>	Creation of knowledge

Encl. :

- Sample copy of each is attached for reference.



Dr.
Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.



Figure 1: Certificate of Institution's Innovation Council



TRUE COPY

[Signature]
Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.



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* Email : nbnssoe@sinhgad.edu / nbnssoes@sinhgad.edu / nbnsoc@sinhgad.edu

PROF. M. N. NAVALE
M.E. (Elec.) M.E. MBA
FOUNDER PRESIDENT

DR. (MRS.) SUNANDA M. NAVALE
B.A. M.P.M. Ph.D.
FOUNDER SECRETARY

DR. SHIVPRASAD P. PATIL
Ph.D. (Aarhus University, Denmark)
PRINCIPAL / DIRECTOR (JC)

Sinhgad Technical Education Society's
NBN Sinhgad Technical Institutes Campus
INTERNAL STARTUP & INNOVATION CELL COMMITTEE

Sr. No.	Name	Position	Email ID	Contact
1	Dr. Prakash Pise	Head	prakash.pise@sinhgad.edu	9011067318
2	Prof. S. S. Mane	Department Faculty Coordinator	sagamane.nbnsoc@sinhgad.edu	9970366936
3	Suraj Ram Mapari	Student Member (IE Computer)	suraj02mapari@gmail.com	7558577321
4	Prof. Tejashree Soni	Department Faculty Coordinator	tejshree.777@gmail.com	9284889659
5	Himani Shrivastava	Student Member	himanshivastava0210@gmail.com	7974931711
6	Prof. K.M. Karthickbabu	Department Faculty Coordinator	karthick.nbnsoc@sinhgad.edu	7204733416
7	Danish Shaikh	Student Member	danishshaikh4479@gmail.com	9960715116
8	Shivam Chincholkar	Student Member	shivamchincholkar@outlook.com	9359829504
9	Prof. Chetana Khairnar	Department Faculty Coordinator	chetana.khairnar@sinhgad.edu	9975709945
10	Tejas Patil	Student Member	tp07474@gmail.com	9158084406
11	Prof. S. S. Jalkote	Department Faculty Coordinator	ssjalkote_sis@sinhgad.edu	9766422064
12	Devesh Bendale	Student Member	deveshbendale860@gmail.com	7038680208
13	Prof. V. M. Bansode	Department Faculty Coordinator	vined.bansode.nbnsoc@sinhgad.edu	9860083737
14	Sanket Satyapal	Student Member	sanketsatyapal@gmail.com	9172111526
15	Prof. Mrs. S.A. Khule	Department Faculty Coordinator	sangita.khule@sinhgad.edu	8975974063
16	Syed Zafar Hassan	Invitee Member, from Industry (Amber Soft Tech System Pvt.Ltd.)	zafar@ambersoft.in	9570299996
17	Suraj Korade	Invitee Member, from Industry	suraj.korade@gmail.com	9372147147



Dr. Shivprasad P. Patil
Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.

Figure 2: Committee Members of "Institution's Innovation Council Academic year 2022-23"



TRUE COPY

Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.

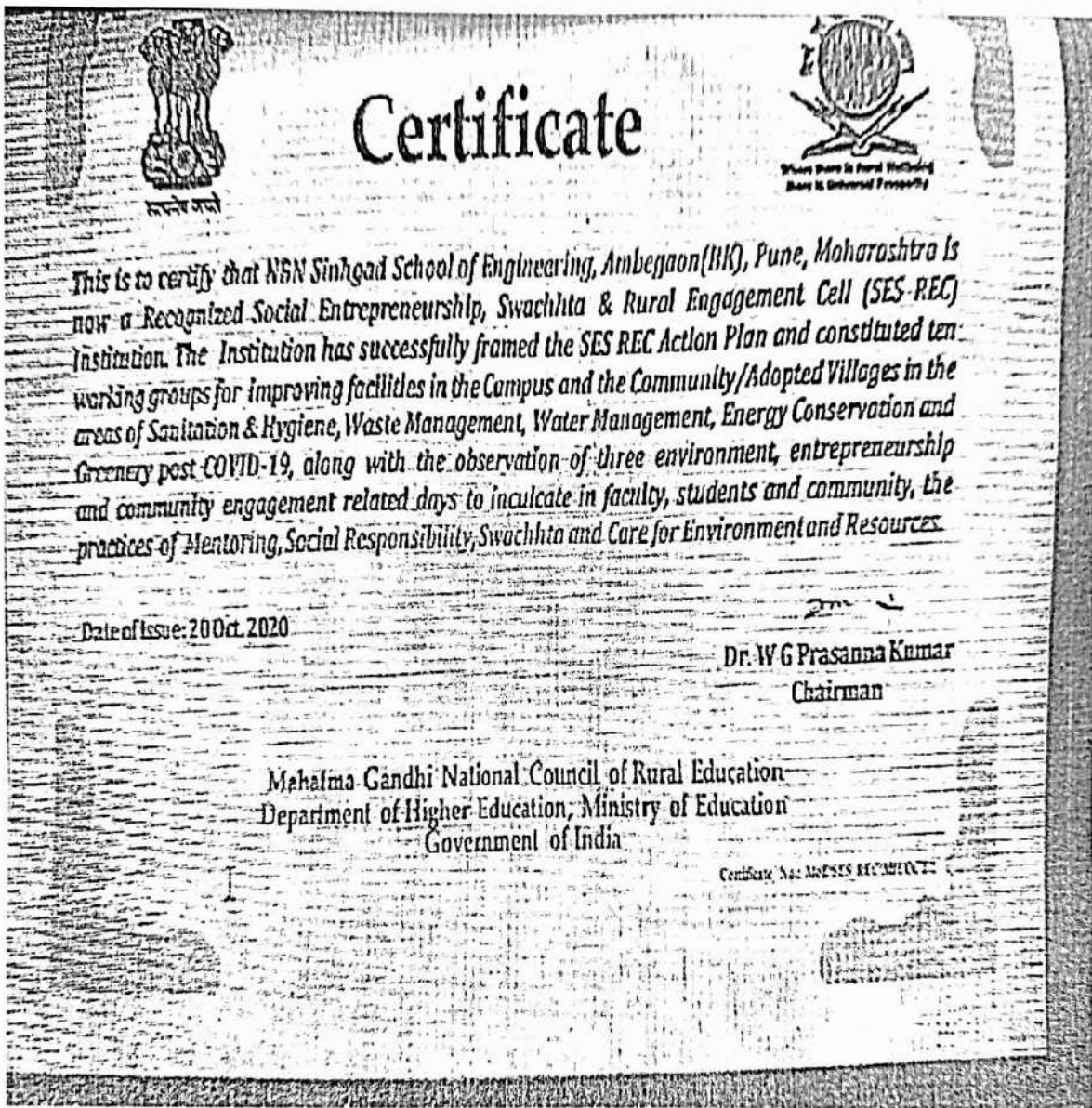


Figure 3: Certificate of "Social Entrepreneurship, Swachhita & Rural Engagement Cell (SES REC)"



TRUE COPY

[Signature]
(Director
NBN Sinhgad Technical Institute
Campus, Ambegaon(Bk.), Pune



Sinhgad Institutes

SINHGAD TECHNICAL EDUCATION SOCIETY'S NBN SINHGAD TECHNICAL INSTITUTES CAMPUS

Approved by AICTE, New Delhi, Recognized by Govt. of Maharashtra & Affiliated to Savitribai Phule Pune University (ID No. PU/PN/Engg/432/2012)

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Tel: +91-20-24355042 / 44, +91-20-24616850/801 • Tele Fax: +91-20-24355042 • Website: www.sinhgad.edu

Email: nbnstic@sinhgad.edu / nbnssoc@sinhgad.edu / nbnssocs@sinhgad.edu

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DR. (MRS.) SUNANDA M. NAVALE
B.A. MPM PH.D.
FOUNDER - SECRETARY

DR. SHRIRAM D. MARKANDE
M.E. Ph.D. (Electronics Engg.), FIETE
PRINCIPAL / DIRECTOR

Ref: NBNSTIC/REDC/2020-21/ 59

Date: 23/11/2020

To
Dr. W. G. Prasanna Kumar,
Chairman,
Mahatma Gandhi National Council of Rural Education,
Department of Higher Education, Ministry of Education,
Government of India

Subject: Submission of details of Rural Entrepreneurship Development Cell in our Institution

Dear Sir,

We are happy to hear that MGNCRE at the behest of MoE is organizing online workshop on "Rural Entrepreneurship Development" and we are looking forward to participate in the workshop.

As required for taking this mission of building entrepreneurship among students of our Institution, a cell on Rural Entrepreneurship Development is formed as under:

S. No.	Role in Cell	Name	Designation/ Assigned Faculty	Mobile No.	E-mail ID
1	Chairman	Dr. S. D. Markande	Principal	8308816104	sdmarkande@sinhgad.edu
2	Internship and Apprenticeship with Rural Enterprises (Training and Placement Wing)	Mr. Abhishek Pandey	Training and Placement Officer	8956564310	abhishek.pandey@sinhgad.edu
3	Initiating Rural Entrepreneurship (Entrepreneurship wing)	Ms. Jyoti Howale	Asst. Professor	8390160500	jyoti.howale@sinhgad.edu
4	Networking with Rural Manufacturers (Rural Engagement wing)	Mr. S. D. Patoie	Asst. Registrar	9075540633	registrar.nbnstic@sinhgad.edu
5	Developing Rural Technological Interventions (Technology wing)	Dr. M. M. Jadhav	HoD/E&TC	9890644549	hedentc.nbnssoc@sinhgad.edu
6	Grooming students to be Rural Entrepreneurs (Personality Development wing)	Mr. Yogesh Gawale	Asst. Professor	9503492423	yogesh.gawale@sinhgad.edu

Thanking you,
With Regards

(Dr. S. D. Markande)
Principal
(NBNSTIC), Affiliated to (Savitribai Phule Pune University)
(Pune, Maharashtra)



Figure 4: Committee Members of "Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC)"



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Director

NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41



BE Computer Engineering 2019 Course tentative Curriculum structure:

Savitribai Phule Pune University Fourth Year of Computer Engineering (2019 Course) (With effect from Academic Year-2022-23)														
Semester VII														
Course Code	Course Name	Teaching Scheme (Hours/week)			Examination Scheme and Marks						Credit Scheme			
		Lecture	Practical	Tutorial	Mid-Sem	End-Sem	Term work	Practical	Oral/Pre	Total	Lecture	Practical	Tutorial	Total
410241	Design and Analysis of Algorithms	03	-	-	30	70	-	-	-	100	3	-	-	3
410242	Machine Learning	03	-	-	30	70	-	-	-	100	3	-	-	3
410243	Blockchain Technology	03	-	-	30	70	-	-	-	100	3	-	-	3
410244	Elective III	03	-	-	30	70	-	-	-	100	3	-	-	3
410245	Elective IV	03	-	-	30	70	-	-	-	100	3	-	-	3
410246	Laboratory Practice III	-	04	-	-	-	50	50	-	100	-	2	-	2
410247	Laboratory Practice IV	-	02	-	-	-	50	-	-	50	-	1	-	1
410248	Project Stage I	-	02	-	-	-	50	-	-	50	-	2	-	2
Total Credit											15	05	-	20
Total		15	08	-	150	350	150	50	-	700	15	05	-	20
410249	Audit Course 7													Grade
Elective III							Elective IV							
410244(A) Pervasive Computing 410244(B) Multimedia Techniques 410244(C) Cyber Security and Digital Forensics 410244(D) Object Oriented Modeling and Design 410244(E) Digital Signal Processing							410245(A) Information Retrieval 410245(B) GPU Programming and Architecture 410245(C) Mobile Computing 410245(D) Software Testing and Quality Assurance 410245(E) Compilers							
Laboratory Practice III: Laboratory assignments Courses- 410241, 410242, 410243							Laboratory Practice IV: Laboratory assignments Courses- 410244, 410245							
Audit Course 7(AC7) Options: AC7- I MOOC- Learn New Skills AC7- II Entrepreneurship Development AC7- III Botnet of Things AC7- IV 3D Printing AC7- V Industrial Safety and Environment Consciousness														

Figure 5: Teaching Learning process Based on "Choice-based credit system"



Shad
Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.

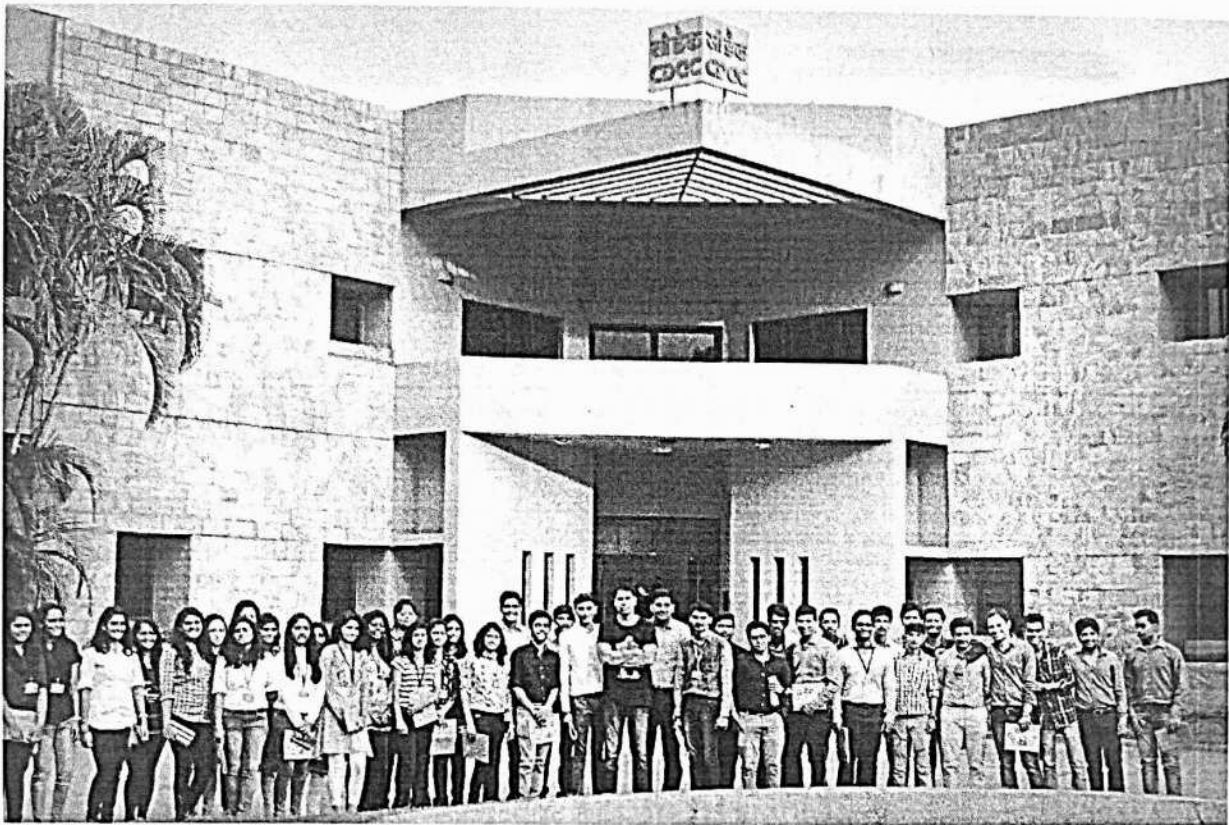


Figure 6: Industrial visit at “C-DAC Company Bangalore”.



Figure 7: Industrial visit “Manisha Engineers Pvt. Ltd., Pune”.



Dr. J. D. Patil
Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.



महाराष्ट्र MAHARASHTRA 2022 07AA 288347

2384 दि. 22/04/2022 7 9 100079-1700079 = 100

स्ताचा प्रकार.....

स्त नोंदणी करणारा व्यक्तीचा नाव.....

पत्तिकाचा पत्ता.....

राज्य विलगत पत्ता याच नाव.....

ना.....

इसच्या पक्षकारांचे नाव.....

मते व्यक्तीचे नाव व पत्ता.....

सी मालती वसंत पोकारणी

पत्तिका क्र. 201986

महाराष्ट्र शासन, मुंबई

कोषाधिकारी

20 APR 2022

प्रथम मुद्रांक लिपीक कोषानार पुणे करिता

Memorandum of Understanding

Between

Mahindra & Mahindra Ltd.

Plot no. A-1, Chakan Industrial Area, Phase - IV, Village - Nighoje, Chakan, Tal. Khed. Dist. Pune - 410501.

&

Sinhgad Technical Education Society's
NBN Sinhgad Technical Institutes Campus

NBN Sinhgad School of Engineering, Pune

(Department of Mechanical Engineering)
Sr. No. 10/1 Ambegaon (Bk), Off Sinhgad road, Pune - 411041

Figure 8: MoU with "Mahindra and Mahindra Pvt Ltd, Pune"



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Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.

Annexure B

Description of work: M&M Ltd Training Program.

Location of work: Online or Offline. (M&M Ltd. Chakan / NBN SSOE)

Scope of NBN SSOE: NBN SSOE will provide approximately 12 Faculties to develop and deliver technical training program content of 200 Hrs. over the span of Six months. Generally, 2 to 3 faculties will work on Sunday and one of the day during week, without hampering regular academics at NBN SSOE.

Support provided by M&M Ltd.: Release of Associates for training and infrastructure / logistics support.


Annexure C


Technical Training Content / Syllabus (attached)

IN WITNESS WHEREOF this Agreement is executed in two counterparts on the day and year first above written. Each Party hereto shall preserve one counterpart of the Agreement.

For:
NBN Sinhgad School of Engineering, Pune.

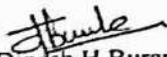
For:
Mahindra & Mahindra Ltd, Chakan, Pune.


Name: Dr. Shivprasad P. Patil
Title: Principal,
NBN SSOE, Ambegaon, Pune.


Name: Mr. Nasir Deshmukh
Title: Plant Head,
M&M Ltd. Chakan, Pune.

Witness:

Witness:


Name: Prof. Dinesh H Burande.
Title: Head,
Dept. of Mechanical Engineering.

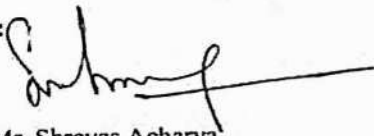

Name: Mr. Shreyas Acharya
Title: General Manager
Employee Relations, M&M Ltd. Chakan.



Figure 9: MoU with "Mahindra and Mahindra Pvt Ltd, Pune"



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Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.

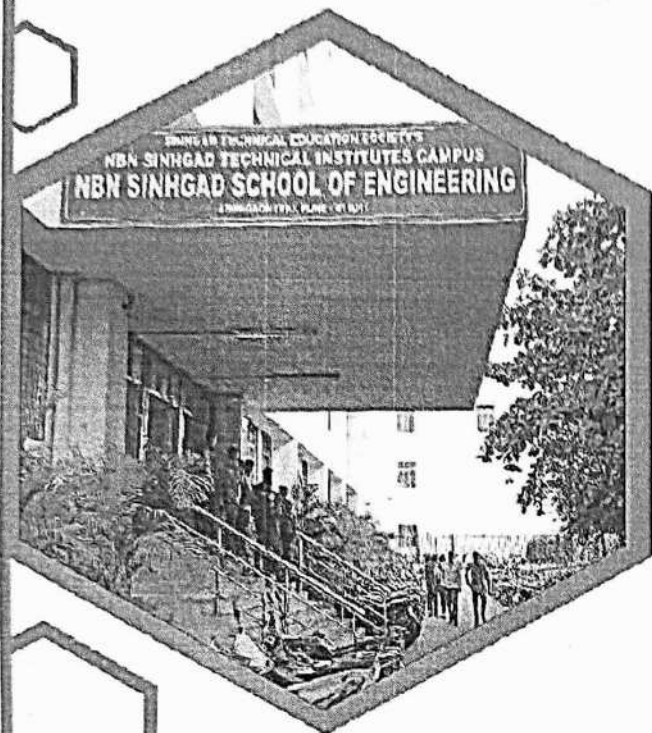


**JOURNAL OF SCIENCE
& TECHNOLOGY**

Journal of Science & Technology



Sinhgad Institutes



**Proceedings
of
National Conference
on
Cognitive Computing
(NCCC-2021)**

Organized by

**NBN Sinhgad School of Engineering &
NBN Sinhgad School of Management Studies, Pune.**

June 28 - 30, 2021

**Sinhgad Technical Education Society's
NBN Sinhgad Technical Institutes Campus,
Ambegaon (Bk.), Pune-411041.**

Figure 10: Annual National Conference on Cognitive Computing NCCC(2021)



[Signature]
Director

**NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.**



Memorandum of Understanding

Summer Internship Programme

Between

SINHGAD TECHNICAL EDUCATION SOCIETY (STES)

(Regd. No. MAH/7199-93/Pune Off.6-7-93 & F-8282/Pune dt.12-8-93)

44/1, Vadgaon (Budruk) Off Sinhgad Road, Pune – 411041

Maharashtra, India

And

Center for Communication, Media and Information Technologies (CMI),

AALBORG UNIVERSITY

Copenhagen, Denmark.

Figure 11: MoU of “Summer Internship Program Alborg University-Denmark”



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A handwritten signature in black ink.

Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.

Both Parties agree that all information and materials disclosed by the them regarding the proposed model, including the terms and conditions of this Agreement and the existence of the discussion between the them, will be considered and referred to collectively in this Agreement as "Confidential Information".

Each Party shall not disclose, publish, or otherwise disseminate Confidential information to anyone other than those of its employees and trusted subcontractors with a need to know, and shall take reasonable precautions to prevent any unauthorized use, disclosure, publication, or dissemination of Confidential Information.

Sinhgad Institutes



Prof. M. N. Navale
Founder President
Sinhgad Technical Education Society,
Pune, India

Date: 10 AUG 2016

CMI, Aalborg University



Prof. Knud Eric Skouby
CMI, Director
Aalborg University, Copenhagen
Denmark.

Date: Tuesday, August 02, 2016



Dr. A. V. Deshpande,
Principal,
Smt. Kashibai Navale College of
Engineering,
Vadgaon, Pune, India.

Date: 10 AUG 2016

Figure 12: MoU of "Summer Internship Program Aalborg University-Denmark"



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Director
NBN Sinhgad Technical Institutes
Campus, Ambegaon(Bk.), Pune-41.

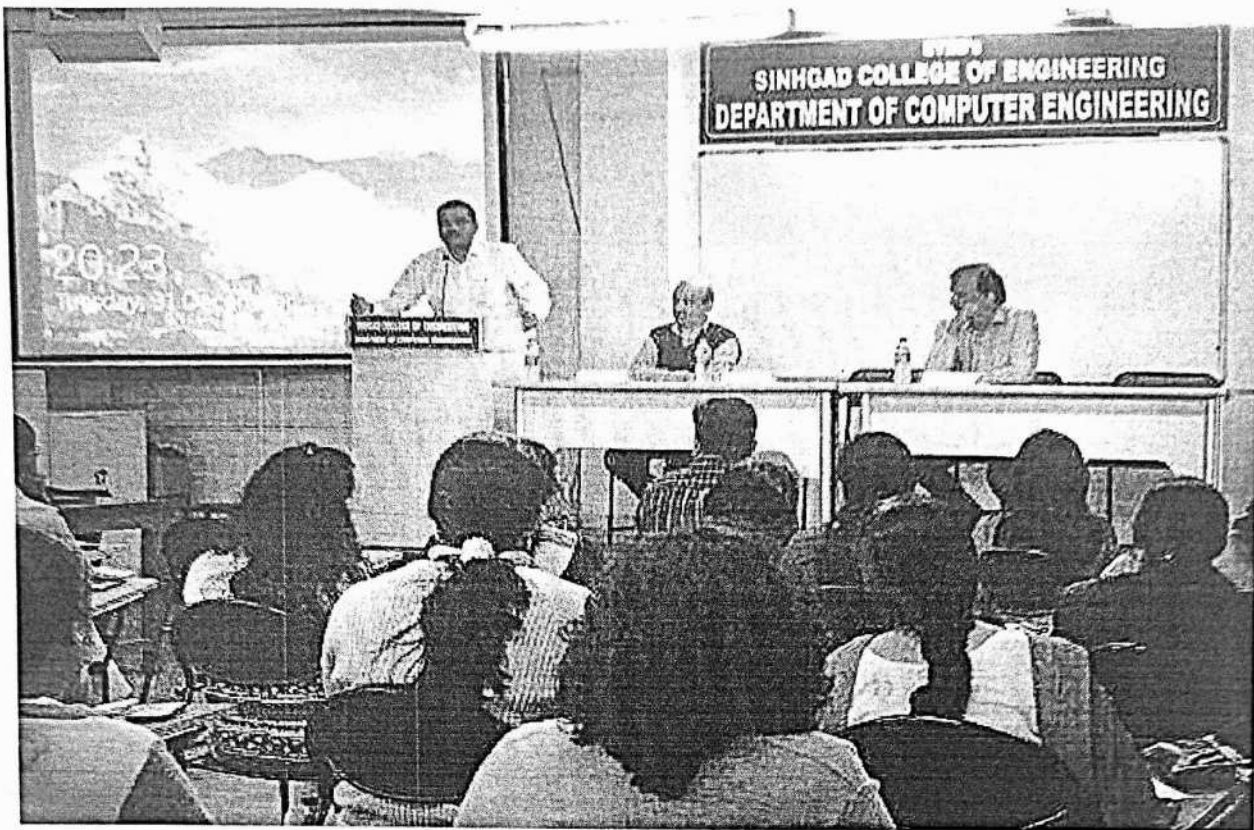


Figure 13: Train the Trainer Workshop

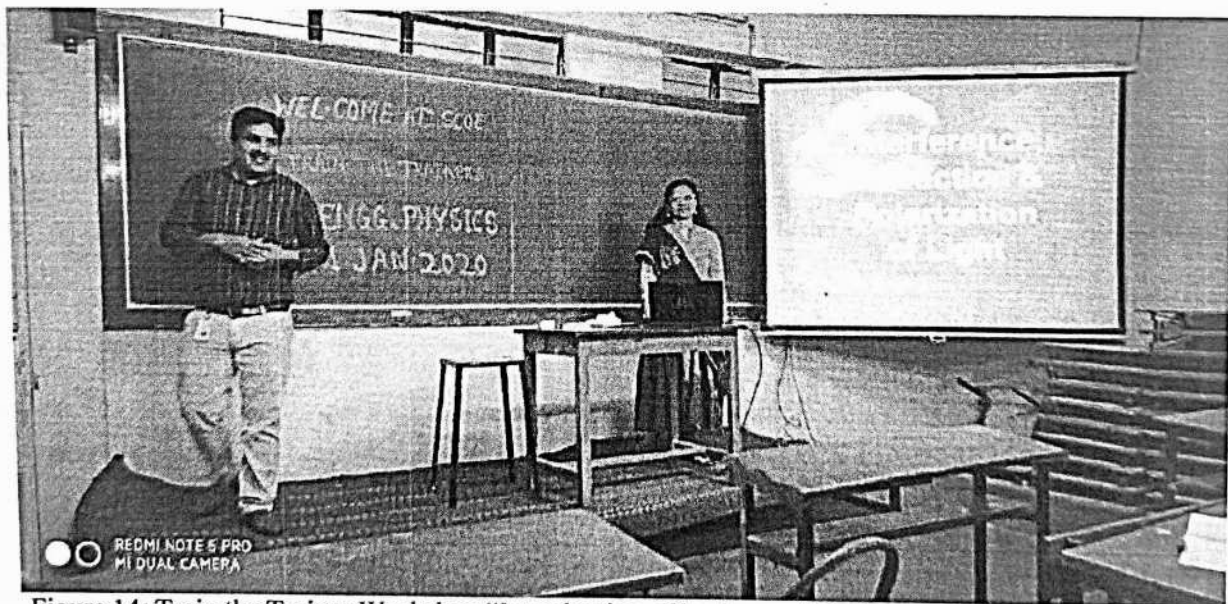


Figure 14: Train the Trainer Workshop "Introduction of lead expert Dr. (Mrs.) Sadhana Sawant by Dr. S.S.Pawar"



Sat
 Director
 NBN Sinhgad Technical Institutes
 Campus, Ambegon(Bk.), Pune-41.





Sinhgad Technical Education Society's
SMT. KASHIBAI NAVALE COLLEGE OF ENGINEERING,
 VADGAON (Bk), Pune -411041


Department of Computer Engineering
TRAIN THE TRAINER (SE)

CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT Prof. S.P. Bendale OF
NBNSOIE HAS ATTENDED TRAIN THE TRAINER WORKSHOP FOR
 THE SUBJECT COA ORGANIZED FROM 5TH TO 10TH JUNE 2017.


 Prof. V.V. Jog
 Coordinator


 Dr. P.N. Mahalle
 Head of Dept


 Dr. K.R. Borole
 Vice Principal


 Dr. A.V. Deshpande
 Principal

Figure 15: Certificate of participation in "Train the Trainer Workshop at SKNCOE"



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 Director
 NBN Sinhgad Technical Institutes
 Campus, Ambegaon(Bk.), Pune-41.

SINHGAD TECHNICAL EDUCATION SOCIETY®

(Regd. No. MAH / 7199-93 / Pune dt. 6/7/93 & F - 8282 (Pune) dt. 12/8/93)



Sinhgad Institutes

19/15, Erandwane, Smt. Khatore Marg, Off Karva Road, Pune 411 004.
 ☎: (020) 2545 9751 Fax: 2545 3456 E-mail: stes@sinhgad.edu Website: www.sinhgad.edu

PROF. M. N. NAVALE
 M.E. (Elect), M.E., MCA
 FOUNDER PRESIDENT

DR. (MRS.) SUMANDA M. NAVALE
 B.A., M.F.M., Ph.D.
 FOUNDER SECRETARY


STES/2021-2022/4105

06.04.2022

NO OBJECTION CERTIFICATE

With reference to the letter dated 05.04.2022 from Ms. Navale Manisha Pandurang, working as Asst. Professor (Computer) in NBN Sinhgad School of Engineering, Ambegaon (Bk.), Pune - 411041; she is informed that Sinhgad Technical Education Society has **NO OBJECTION** for her further studies - Ph.D. (Part Time) - from Savitribai Phule Pune University, Pune; subject to following conditions:

1. If leave is required for the study; she will have to take L.W.P only with prior approval.
2. Further studies should not affect her normal duties as Asst. Professor (Computer) in NBN Sinhgad School of Engineering, Ambegaon (Bk.), Pune - 411041.
3. She will not be provided with any other extra facilities.


 Rachana M. Navale
 President / Vice-President

To,
 Ms. Navale Manisha Pandurang
 Asst. Professor (Computer)
 NBN Sinhgad School of Engineering, Ambegaon (Bk.), Pune - 411041

- Copy to:
1. Founder Secretary, STE Society, Vadgaon (Bk.), Pune - 411041
 2. Principal, NBN Sinhgad School of Engineering, Ambegaon (Bk.), Pune - 411041
 3. Personal File.

M.N.

Manishy
 Received 4/4/2022

Figure 16: NOC for Ph.D Course work completion.



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 Director
 NBN Sinhgad Technical Institutes
 Campus, Ambegaon(Bk.), Pune-41.