

Amrutvahini College of Engineering, Sangamner
Project Exhibition 2019

The Project Exhibition 2019 will be scheduled on 29th & 30th March 2019. In this exhibition projects from our college as well as projects from various science colleges are going to participate.

Following committees are formed for smooth working of project exhibition 2019

Sr. No.	Name of Committee	Department	Nature of work
1.	Invitation	Mechanical	• Design & Printing of invitation cards • Distribution of invitation cards • Design & Printing of Certificates • Design & Printing of Pamphlet
2.	Registration	Computer - Engg. Registration W/S Prof. Sonawane Y.P.- Polytechnic Registration	• Arrangement of registration counter at reception • Giving batches to judges • Necessary arrangement for taking feedback • Judge evaluation sheet • If any related work
3.	Publicity	IT	• News & Banner • News 3 to 4 days before & after exhibition • Photograph & Video shooting during program
4.	Judge Selection Committee	All HOD's & Project Co-ordinator	• Selection & Appointment of judges from JCI, QCI, alumni, industry for respective domain • Inviting judges for the program & evaluation of projects
5.	Guest Refreshment	Production	• Morning breakfast • Lunch • Tea • Evening breakfast
6.	Sponsorship	All HOD's & Departmental Project Co-ordinator	• From industries & Alumni • Contact to industrial persons & Alumni for sponsorship in terms of money & prize for project • Receipt to sponsors' (Account-Ananosoft)
7.	Location & Pendol	Civil & Gymkhana	• Area to be fixed • Track for vehicle • Place for winner project • Erection of pendol • Arrangement for fixing banner / posters

circulate to all
P.T.O.
11/03/19.

P.T.O.

Figure1: Notice for conducting Project exhibition AmrutExpo-2k19

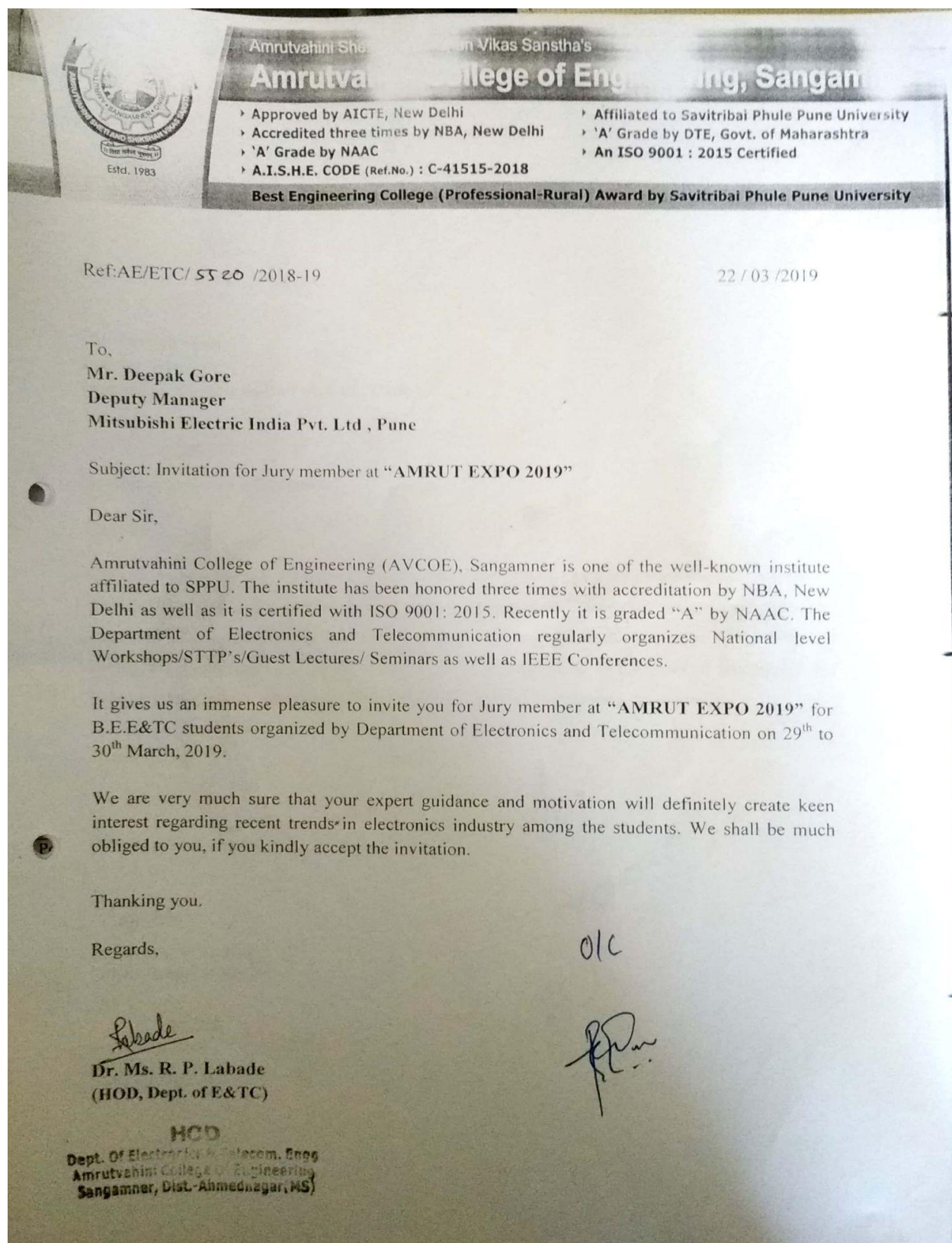


Figure 2: Invitation of exhibition for Jury1 of Electronics and Telecommunication department

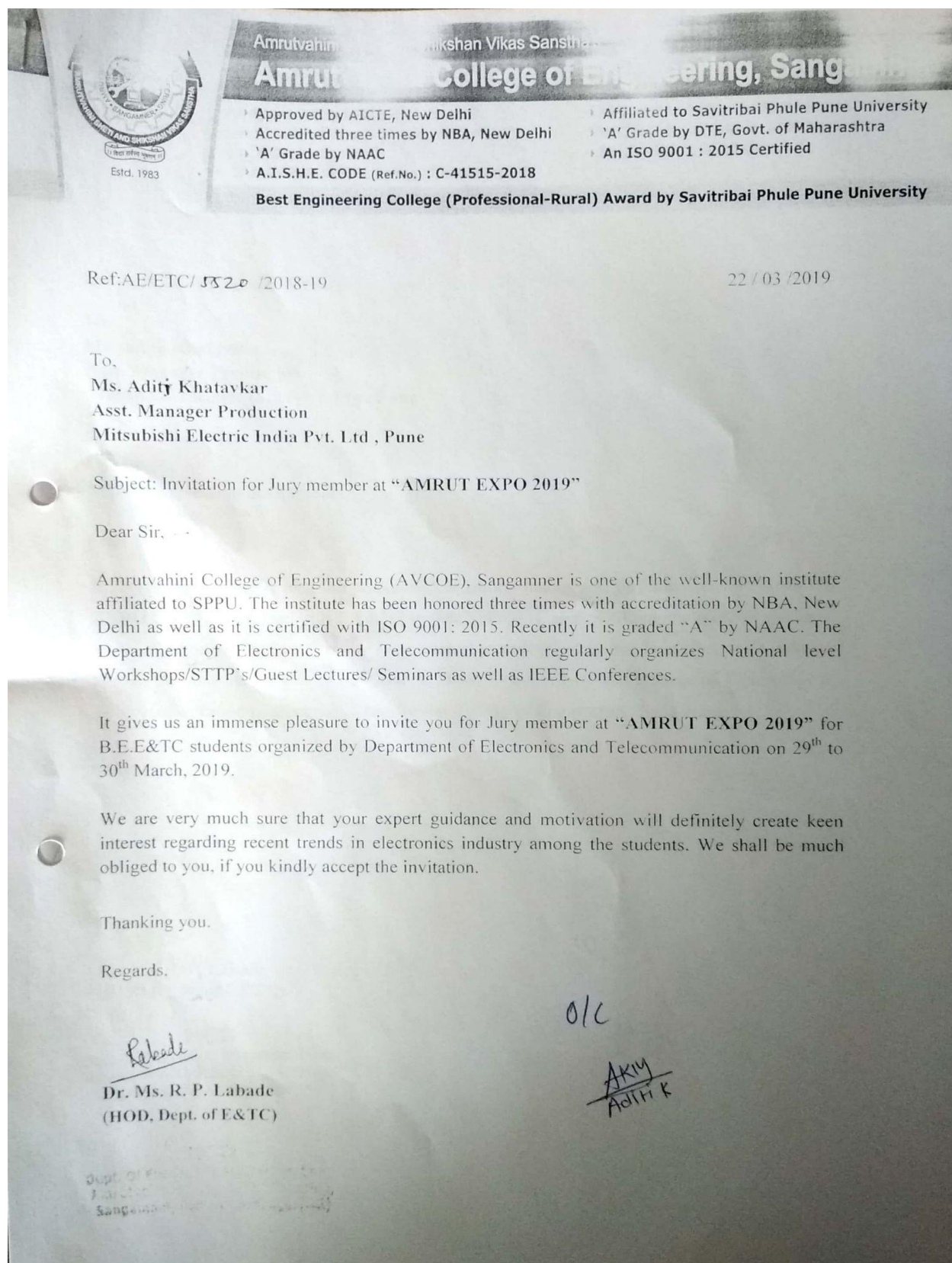


Figure 3: Invitation of exhibition for Jury2 of Electronics and Telecommunication department.

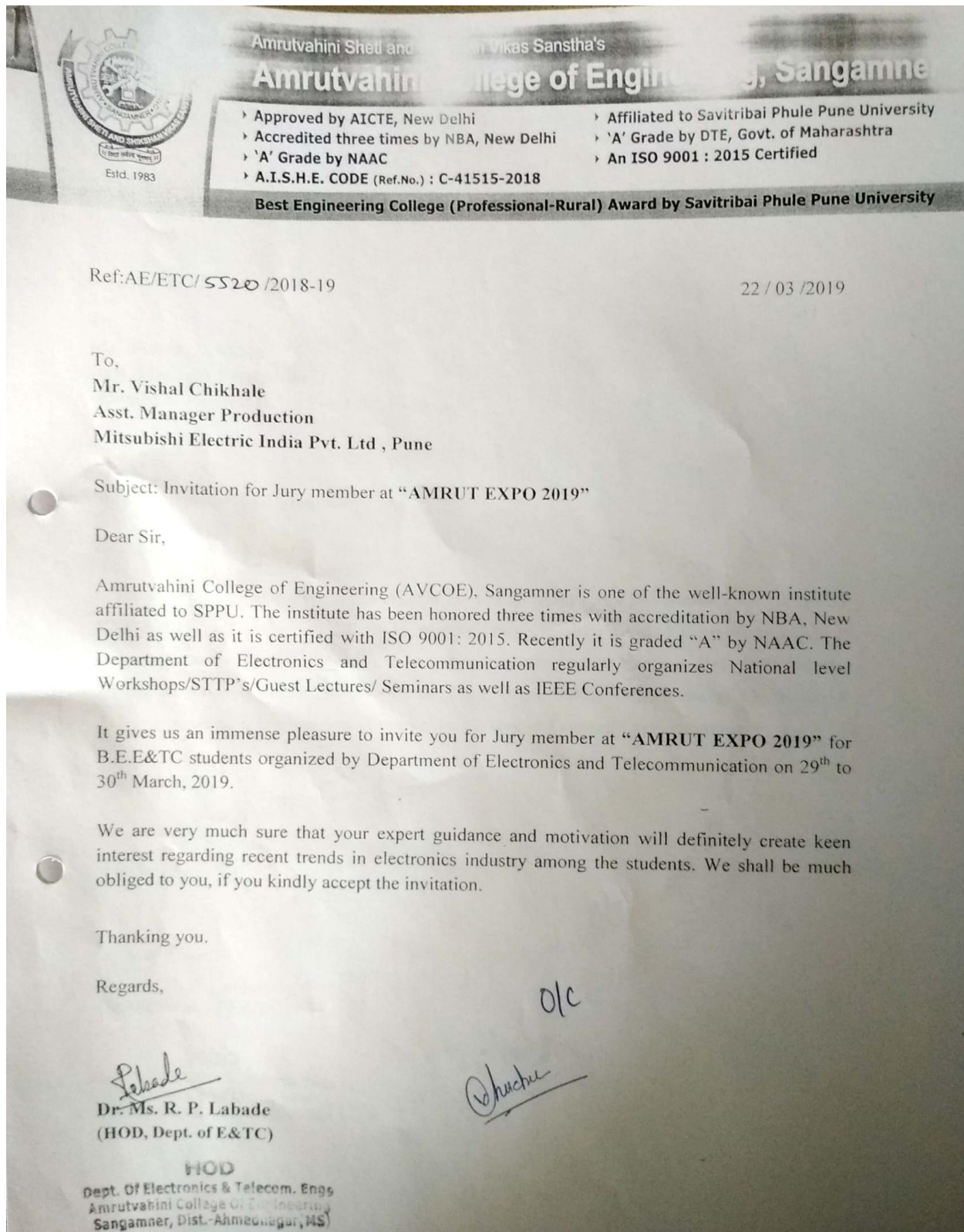


Figure 4: Invitation of exhibition for Jury3 of Electronics and Telecommunication department.

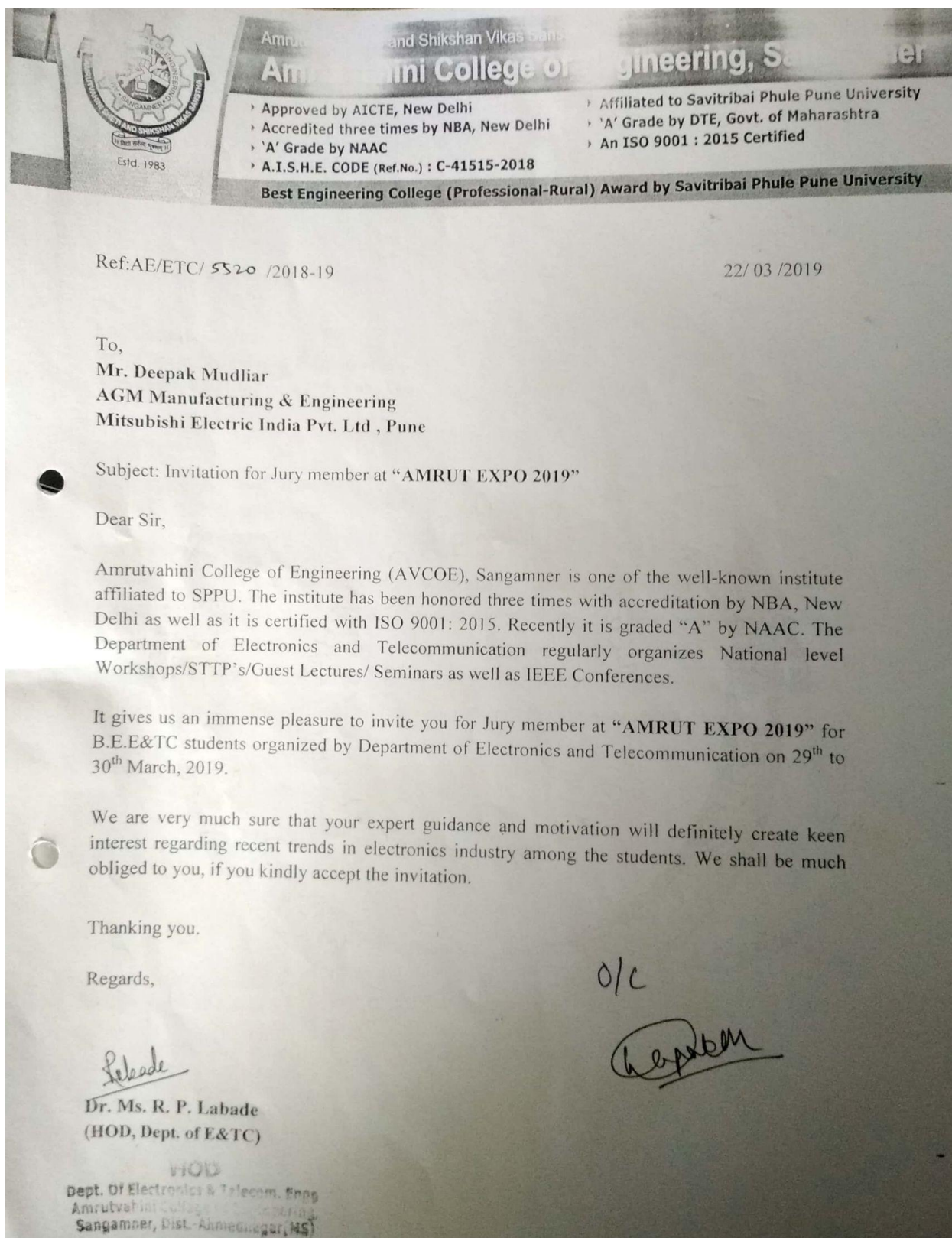


Figure 5: Invitation of exhibition for Jury4 of Electronics and Telecommunication department.

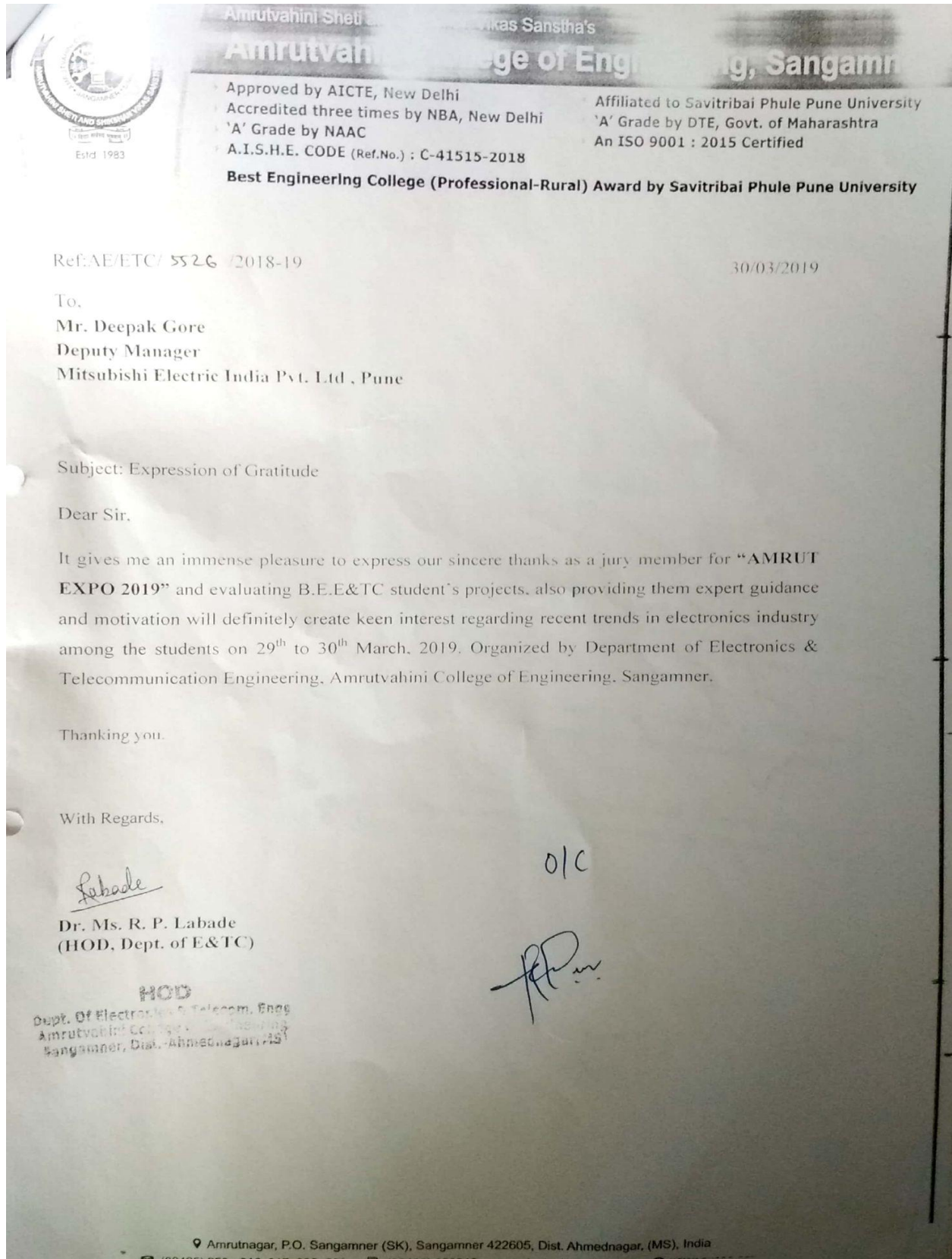


Figure 6: Expression of gratitude for Jury1 of Electronics and Telecommunication department.

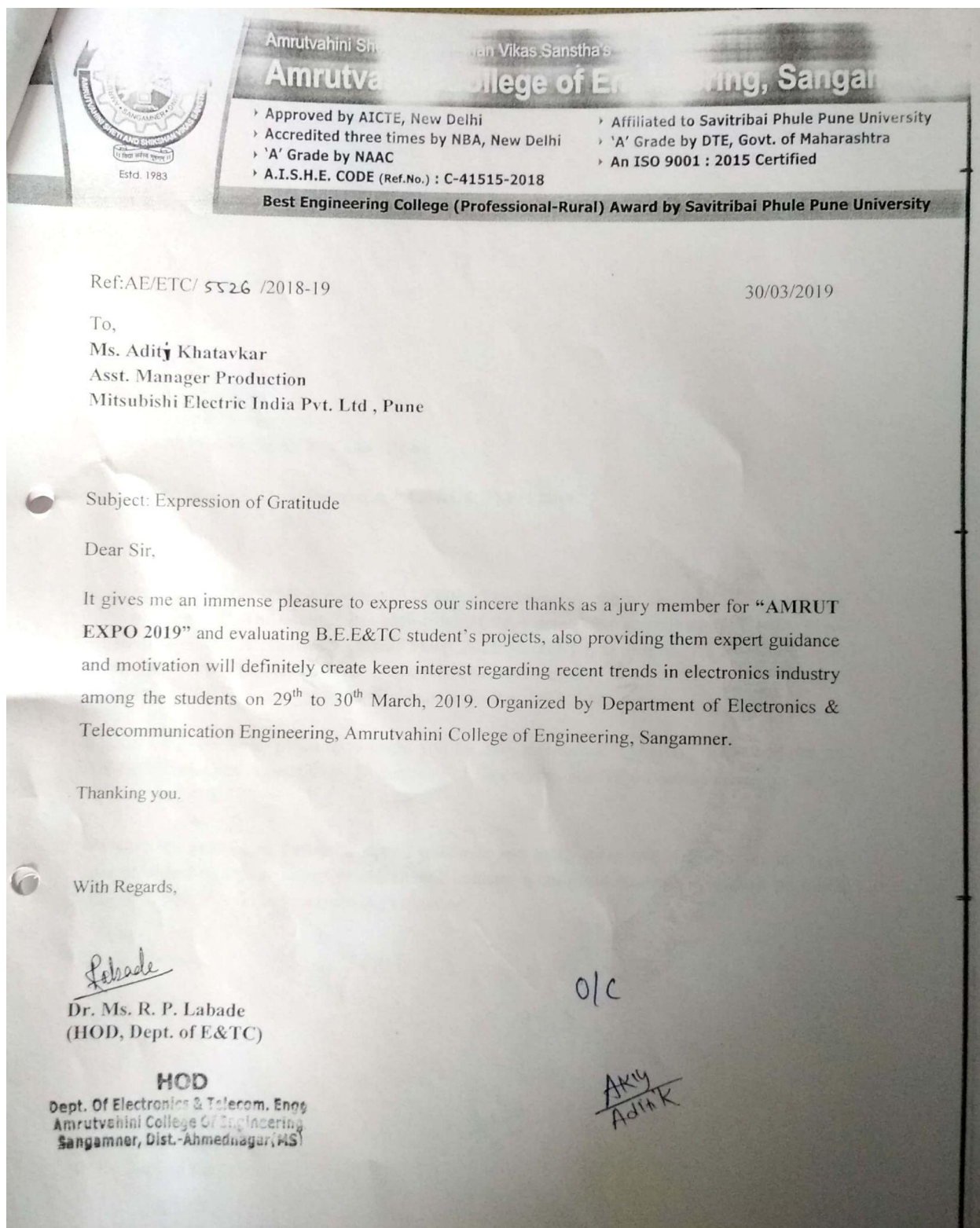


Figure 7: Expression of gratitude for Jury2 of Electronics and Telecommunication department.

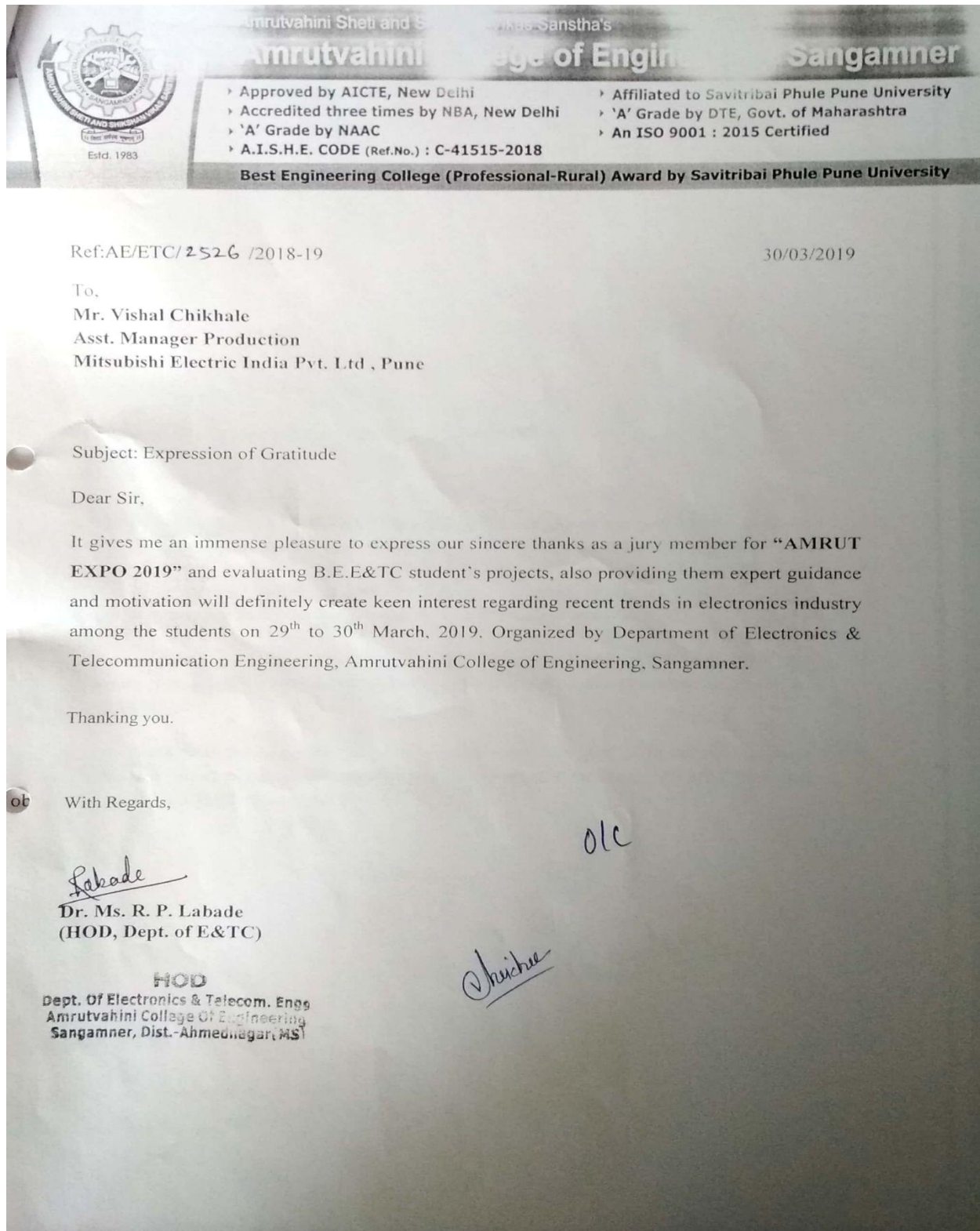


Figure 8: Expression of gratitude for Jury3 of Electronics and Telecommunication department.



Amrutvahini Education Society, Chikshan Vikas Sangamner

Amrutvahini College of Engineering, Sangamner

- Approved by AICTE, New Delhi
- Accredited three times by NBA, New Delhi
- 'A' Grade by NAAC
- A.I.S.H.E. CODE (Ref.No.) : C-41515-2018
- Affiliated to Savitribai Phule Pune University
- 'A' Grade by DTE, Govt. of Maharashtra
- An ISO 9001 : 2015 Certified

Best Engineering College (Professional-Rural) Award by Savitribai Phule Pune University

Ref:AE/ETC/SS26 /2018-19

30/03 /2019

To,
Mr. Deepak Mudliar
AGM Manufacturing & Engineering
Mitsubishi Electric India Pvt. Ltd , Pune

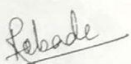
Subject: Expression of Gratitude

Dear Sir,

It gives me an immense pleasure to express our sincere thanks as a jury member for "AMRUT EXPO 2019" and evaluating B.E.E&TC student's projects, also providing them expert guidance and motivation will definitely create keen interest regarding recent trends in electronics industry among the students on 29th to 30th March, 2019. Organized by Department of Electronics & Telecommunication Engineering, Amrutvahini College of Engineering, Sangamner.

Thanking you.

With Regards,


Dr. Ms. R. P. Labade
(HOD, Dept. of E&TC)

HOD
Dept. Of Electronics & Telecom. Engg.
Amrutvahini College of Engineering,
Sangamner, Dist - Ahmednagar, MS

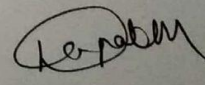
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Figure 9: Expression of gratitude for Jury4 of Electronics and Telecommunication department.

Amrutvahini College of Engineering, Sangamner
Department of Electronics and Telecommunication
AMRUT EXPO 2019
 29th and 30th March , 2019

SHEET OF PROJECT ASSESSMENT

Gr. no.	Title of the Project	Concept & Innovativeness (10)	Application (10)	Circuit Design (10)	Presentation (10)	Question & Answers (10)	Total Marks (50)
1.	Automatic PCB Drilling Machine using CNC	8	6	4	4	3	25
2.	Dronastra(Military Drone). <i>cybernetic Gun,</i>	5	3	3	4	4	23
3.	Quality Detection of Vegetables in Storage System. *	8	3	4	5	4	26
4.	Life Jacket For Military Persons. <i>life cycle- 2 days</i> <i>→ 60% - 70%</i>	8	6	4	4	5	27
5.	MEMS Multi Sensor Intelligence Damage Detection For Wind Turbines	8	7	5	4	3	27
6.	Gesture Based Communication System Using Flex Sensor for Deaf and Dumb People	8	8	4	4	5	29
7.	Sensor Based Eye Controlled Automated Wheelchair *	7	6	5	4	4	26
8.	Microcontroller based Wood Engraver and Paper Cutting Machine using Laser Technology	8	7	3	4	3	27
9.	Power Transmission Line Fault Detection & Rectification Using Robot	5	3	5	4	4	23
10.	Smart Bus Ticketing System	8	8	8	3	3	40
11.	Arm7 Based Wireless Sensor Network Communication Detection In Drinking Water Distribution System In Smart City	7	6	5	5	4	29
12.	IoT Based Weather Monitoring System	6	5	5	3	6	25

Mr. Deepak Gore
 Mr. Deepak Gore ,
 Deputy Manager-Manufacturing,
 Mitsubishi Electric India , Pune

Dr. R. P. Labade
 Dr. R. P. Labade
 Head, E&TC, AVCOE, Sangamner

Amrutvahini College of Engineering, Sangamner
Department of Electronics and Telecommunication
AMRUT EXPO 2019
 29th and 30th March , 2019

SHEET OF PROJECT ASSESSMENT

Gr. no.	Title of the Project	Concept & Innovativeness (10)	Application (10)	Circuit Design (10)	Presentation (10)	Question & Answers (10)	Total Marks (50)
13.	Night Vision Security Patrolling Robot	6	6	4	5	5	26
14.	Density Measurement of Fluid Using Embedded System	9	3	8	10	9	45
15.	Intelligent Automatic Power Factor Correction.	4	4	4	4	2	18
16.	Smart Energy Harvesting System	6	5	4	3	3	27
17.	Real Time Security System Using Face Recognition	6	6	3	6	5	25
18.	The De-attachable Side Wheel System for Two Wheeler Vehicle.	5	5	4	3	4	19
19.	IoT Based Home Accidents Prevention and Control System	6	4	4	5	4	23
20.	GSM Based Advanced Alert Home Security System.	5	4	6	7	6	28
21.	IoT Based Robotix Agriculture	5	5	5	6	8	29
22.	Automated Solar Panel Cleaning System	8	8	3	3	9	41
23.	Efficient Water & Fertilizer Distribution System.	-	-	-	-	-	-
24.	Electric Vehicle with Regeneration System.	5	5	3	5	8	27

Mr. Deepak Gore
 Mr. Deepak Gore ,
 Deputy Manager-Manufacturing,
 Mitsubishi Electric India , Pune

Dr. R. P. Labade
 Dr. R. P. Labade
 Head, E&TC, AVCOE, Sangamner

Figure 10 : Project evaluation sheet of Jury1 of Electronics and Telecommunication department.

Amrutvahini College of Engineering, Sangamner
Department of Electronics and Telecommunication
AMRUT EXPO 2019
 29th and 30th March , 2019
 SHEET OF PROJECT ASSESSMENT

Gr. no.	Title of the Project	Concept & Innovativeness	Application	Circuit Design	Presentation	Question & Answers	Total Marks
		(10)	(10)	(10)	(10)	(10)	(50)
1.	Automatic PCB Drilling Machine using CNC	05	05	05	06	05	26
2.	Dronastra(Military Drone). 7-8 Month construction time	06	06	05	08	08	33
3.	Quality Detection of Vegetables in Storage System. PT 100 SENSORE	05	05	05	05	05	25
4.	Life Jacket For Military Persons.	06	06	05	08	05	30
5.	MEMS Multi Sensor Intelligence Damage Detection For Wind Turbines	04	04	04	04	04	20
6.	Gesture Based Communication System Using Flex Sensor for Deaf and Dumb People	05	05	05	07	06	28
7.	Sensor Based Eye Controlled Automated Wheelchair	05	04	04	06	06	25
8.	Microcontroller based Wood Engraver and Paper Cutting Machine using Laser Technology Laser-500mm	05	05	05	08	08	31
9.	Power Transmission Line Fault Detection & Rectification Using Robot	05	06	06	07	07	31
10.	Smart Bus Ticketing System	09	08	07	10	7	41
11.	Arm7 Based Wireless Sensor Network Communication Detection In Drinking Water Distribution System In Smart City	06	06	06	07	07	32
12.	IoT Based Weather Monitoring System	06	07	07	07	07	34

Akshay
 Ms. Aditi Khataavkar,
 Assistant Manager-Production,
 Mitsubishi Electric India , Pune

Labade
 Dr. R. P. Labade
 Head, E&TC, AVCOE, Sangamner

Amrutvahini College of Engineering, Sangamner
Department of Electronics and Telecommunication
AMRUT EXPO 2019
 29th and 30th March , 2019
 SHEET OF PROJECT ASSESSMENT

Gr. no.	Title of the Project	Concept & Innovativeness	Application	Circuit Design	Presentation	Question & Answers	Total Marks
		(10)	(10)	(10)	(10)	(10)	(50)
13.	Night Vision Security Patrolling Robot	05	06	06	09	09	35
14.	Density Measurement of Fluid Using Embedded System	10	09	09	09	09	46
15.	Intelligent Automatic Power Factor Correction.	06	06	06	08	08	34
16.	Smart Energy Harvesting System	06	07	07	08	08	36
17.	Real Time Security System Using Face Recognition	05	05	05	08	05	28
18.	The De-attachable Side Wheel System for Two Wheeler Vehicle.	06	06	06	08	08	34
19.	IoT Based Home Accidents Prevention and Control System	04	05	05	05	05	24
20.	GSM Based Advanced Alert Home Security System.	05	05	05	05	05	25
21.	IoT Based Robotix Agriculture	05	05	05	06	06	27
22.	Automated Solar Panel Cleaning System	09	09	09	09	08	44
23.	Efficient Water & Fertilizer Distribution System.	05	-	-	-	-	-
24.	Electric Vehicle with Regeneration System.	05	05	05	08	08	31

Akshay
 Ms. Aditi Khataavkar,
 Assistant Manager-Production,
 Mitsubishi Electric India , Pune

Labade
 Dr. R. P. Labade
 Head, E&TC, AVCOE, Sangamner

Figure 11:Project evaluation sheet of Jury2 of Electronics and Telecommunication department.

Amrutvahini College of Engineering, Sangamner Department of Electronics and Telecommunication AMRUT EXPO 2019 29 th and 30 th March, 2019 SHEET OF PROJECT ASSESSMENT							
Gr. no.	Title of the Project	Concept & Innovativeness (10)	Application (10)	Circuit Design (10)	Presentation (10)	Question & Answers (10)	Total Marks (50)
1.	Automatic PCB Drilling Machine using CNC	7	6	6	5	5	31
2.	Dronastra(Military Drone) Project member: 1. Dronastra 2. Dronastra 3. Dronastra	8	7	7	7	7	36
3.	Quality Detection of Vegetables in Storage System Team member: 1. Quality 2. Quality 3. Quality	6	6	6	5	5	30
4.	Life Jacket For Military Persons. Project member: 1. Life 2. Life 3. Life	5	6	6	7	6	31
5.	MEMS Multi Sensor Intelligence Damage Detection For Wind Turbines Project member: 1. MEMS 2. MEMS 3. MEMS	7	6	6	5	5	31
6.	Gesture Based Communication System Using Flex Sensor for Deaf and Dumb People Team: 2 NOS. Project: 1. Gesture 2. Gesture	7	8	8	8	8	39
7.	Sensor Based Eye Controlled Automated Wheelchair Team: 4 NOS. Project: 1. Sensor 2. Sensor	6	7	8	8	9	38
8.	Microcontroller based Wood Engraver and Paper Cutting Machine using Laser Technology Team: 3 NOS. Project: 1. Micro 2. Micro	6	7	8	8	8	37
9.	Power Transmission Line Fault Detection & Rectification Using Robot Team: 3 NOS. Project: 1. Power 2. Power	7	7	6	7	7	34
10.	Smart Bus Ticketing System Team: 3 NOS. Project: 1. Smart 2. Smart	8	8	8	8	9	41
11.	Arm7 Based Wireless Sensor Network Communication Detection In Drinking Water Distribution System In Smart City Team: 3 NOS. Project: 1. Arm 2. Arm	7	6	6	6	7	32
12.	IoT Based Weather Monitoring System Team: 4 NOS. Project: 1. IoT 2. IoT	6	6	6	6	6	30

Amrutvahini College of Engineering, Sangamner Department of Electronics and Telecommunication AMRUT EXPO 2019 29 th and 30 th March, 2019 SHEET OF PROJECT ASSESSMENT							
Gr. no.	Title of the Project	Concept & Innovativeness (10)	Application (10)	Circuit Design (10)	Presentation (10)	Question & Answers (10)	Total Marks (50)
13.	Night Vision Security. Automatic PCB Drilling Machine using CNC Team: 3 NOS. Project: 1. Night 2. Night	7	6	6	7	7	33
14.	Dronastra(Military Drone) Team: 3 NOS. Project: 1. Dronastra 2. Dronastra	10	10	9	8	9	47
15.	Quality Detection of Vegetables in Storage System Team: 3 NOS. Project: 1. Quality 2. Quality	7	7	7	7	6	34
16.	Life Jacket For Military Persons. Team: 3 NOS. Project: 1. Life 2. Life	7	7	8	8	8	38
17.	MEMS Multi-Sensor Intelligence Damage Detection For Wind Turbines Team: 4 NOS. Project: 1. MEMS 2. MEMS	6	5	5	8	7	31
18.	Gesture Based Communication System Using Flex Sensor for Deaf and Dumb People Team: 3 NOS. Project: 1. Gesture 2. Gesture	7	7	7	7	7	35
19.	Sensor Based Eye Controlled Automated Wheelchair Team: 3 NOS. Project: 1. Sensor 2. Sensor	7	6	6	7	7	33
20.	Microcontroller based Wood Engraver and Paper Cutting Machine using Laser Technology Team: 3 NOS. Project: 1. Micro 2. Micro	7	7	7	7	6	35
21.	Power Transmission Line Fault Detection & Rectification Using Robot Team: 3 NOS. Project: 1. Power 2. Power	8	7	7	7	7	36
22.	Smart Bus Ticketing System Team: 3 NOS. Project: 1. Smart 2. Smart	9	8	8	10	10	45
23.	Arm7 Based Wireless Sensor Network Communication Detection In Drinking Water Distribution System In Smart City Team: 3 NOS. Project: 1. Arm 2. Arm	6	6	7	7	7	33
24.	IoT Based Weather Monitoring System Team: 3 NOS. Project: 1. IoT 2. IoT	6	6	7	7	7	33

Figure 12: Project evaluation sheet of Jury3 of Electronics and Telecommunication department.

Amrutvahini College of Engineering, Sangamner
Department of Electronics and Telecommunication
AMRUT EXPO 2019
 29th and 30th March , 2019
 SHEET OF PROJECT ASSESSMENT

Gr. no.	Title of the Project	Concept & Innovativeness	Application	Circuit Design	Presentation	Question & Answers	Total Marks
		(10)	(10)	(10)	(10)	(10)	(50)
1.	Automatic PCB Drilling Machine using CNC	05	05	05	06	05	26
2.	Dronastra(Military Drone). 7-8 Month construction time	06	06	05	08	08	33
3.	Quality Detection of Vegetables in Storage System. PT 100 SENSORE	05	05	05	05	05	25
4.	Life Jacket For Military Persons.	06	06	05	08	05	30
5.	MEMS Multi Sensor Intelligence Damage Detection For Wind Turbines	04	04	04	04	04	20
6.	Gesture Based Communication System Using Flex Sensor for Deaf and Dumb People	05	05	05	07	06	28
7.	Sensor Based Eye Controlled Automated Wheelchair	05	04	04	06	06	25
8.	Microcontroller based Wood Engraver and Paper Cutting Machine using Laser Technology Laser-COMM	05	05	05	08	08	31
9.	Power Transmission Line Fault Detection & Rectification Using Robot	05	06	06	07	07	31
10.	Smart Bus Ticketing System	09	08	07	10	7	41
11.	Arm7 Based Wireless Sensor Network Communication Detection In Drinking Water Distribution System In Smart City	06	06	06	07	07	32
12.	IoT Based Weather Monitoring System	06	07	07	07	07	34

AKW
 Ms. Aditi Khataavkar,
 Assistant Manager-Production,
 Mitsubishi Electric India , Pune

Labade
 Dr. R. P. Labade
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 SHEET OF PROJECT ASSESSMENT

Gr. no.	Title of the Project	Concept & Innovativeness	Application	Circuit Design	Presentation	Question & Answers	Total Marks
		(10)	(10)	(10)	(10)	(10)	(50)
13.	Night Vision Security Patrolling Robot	05	06	06	09	09	35
14.	Density Measurement of Fluid Using Embedded System	10	09	09	09	09	46
15.	Intelligent Automatic Power Factor Correction. Analog	06	06	06	08	08	34
16.	Smart Energy Harvesting System	06	07	07	08	08	36
17.	Real Time Security System Using Face Recognition	05	05	05	08	05	28
18.	The De-attachable Side Wheel System for Two Wheeler Vehicle.	06	06	06	08	08	34
19.	IoT Based Home Accidents Prevention and Control System	04	05	05	05	05	24
20.	GSM Based Advanced Alert Home Security System.	05	05	05	05	05	25
21.	IoT Based Robotix Agriculture	05	05	05	06	06	27
22.	Automated Solar Panel Cleaning System	09	09	09	09	08	44
23.	Efficient Water & Fertilizer Distribution System.	-	-	-	-	-	-
24.	Electric Vehicle with Regeneration System.	05	05	05	08	08	31

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Labade
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Figure 13: Project evaluation sheet of Jury4 of Electronics and Telecommunication department.

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER Amrut Expo – 2019 Project Exhibition & Competition Result Sheet				
Branch: <u>E&TC</u>				
Sr. No.	Title of Project	Name of Student	Rank	Amount
1.	Density Measurement of fluid using Embedded system	1. Ghinde Priyanka 2. Salunke Apeksha 3. Nisal Tyoti	1 st	Rs. 5000/-
2.	Automated Solar Panel Cleaning system	1. Deshmukh Shubham 2. Arote Akshay 3. Morat Tejal	2 nd	Rs. 3000/-
3.	Smart Bus Ticketing System	1. Ambhore Arti 2. Gadade Mamta 3. Bakhchavre Vaibhavi	3 rd	Rs. 2000/-

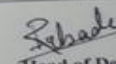
 **Project Coordinator**
 **Dr. R. P. Labade**
Head of Department

Figure 14: Winners list of Electronics and Telecommunication department.

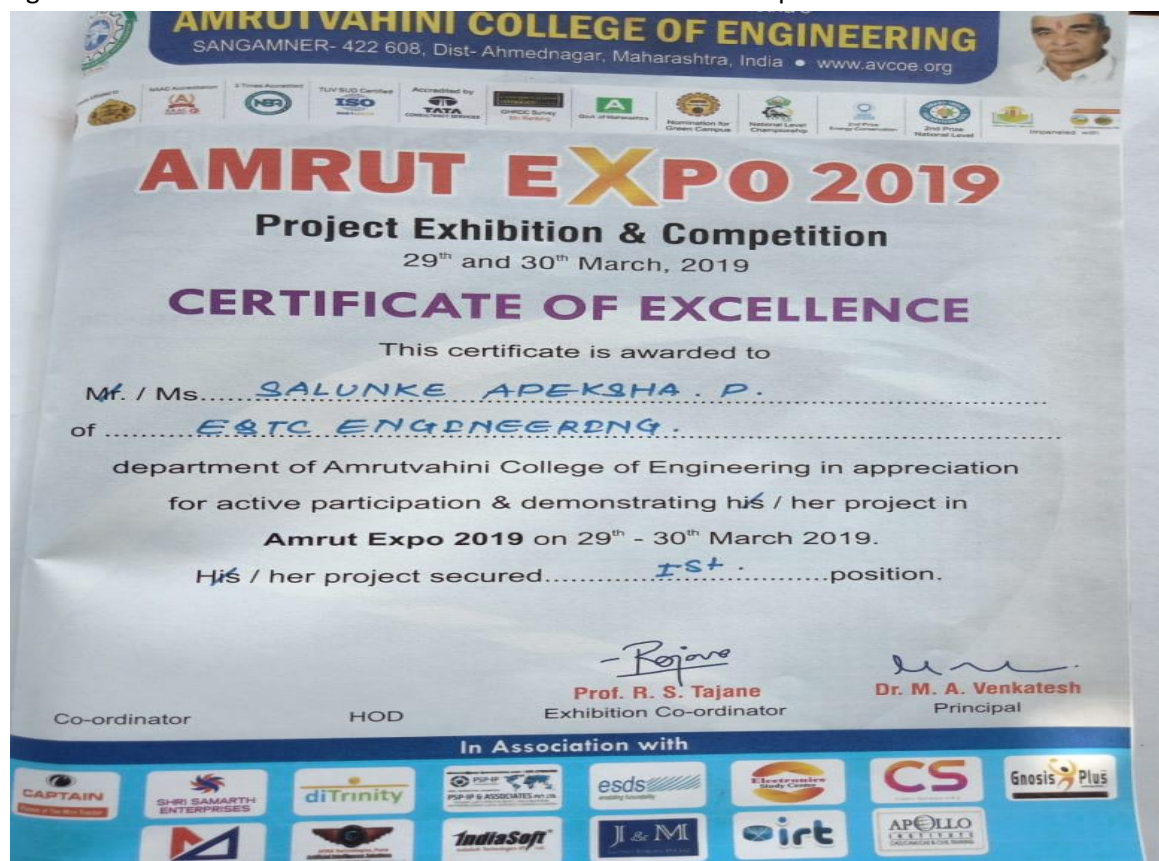


Figure 15: Winners certificate of project exhibition of Electronics and Telecommunication department.



Figure 16: Inauguration of project exhibition of Electronics and Telecommunication department.



Figure 17: Some glimpses of project exhibition Amrut Expo 2019.

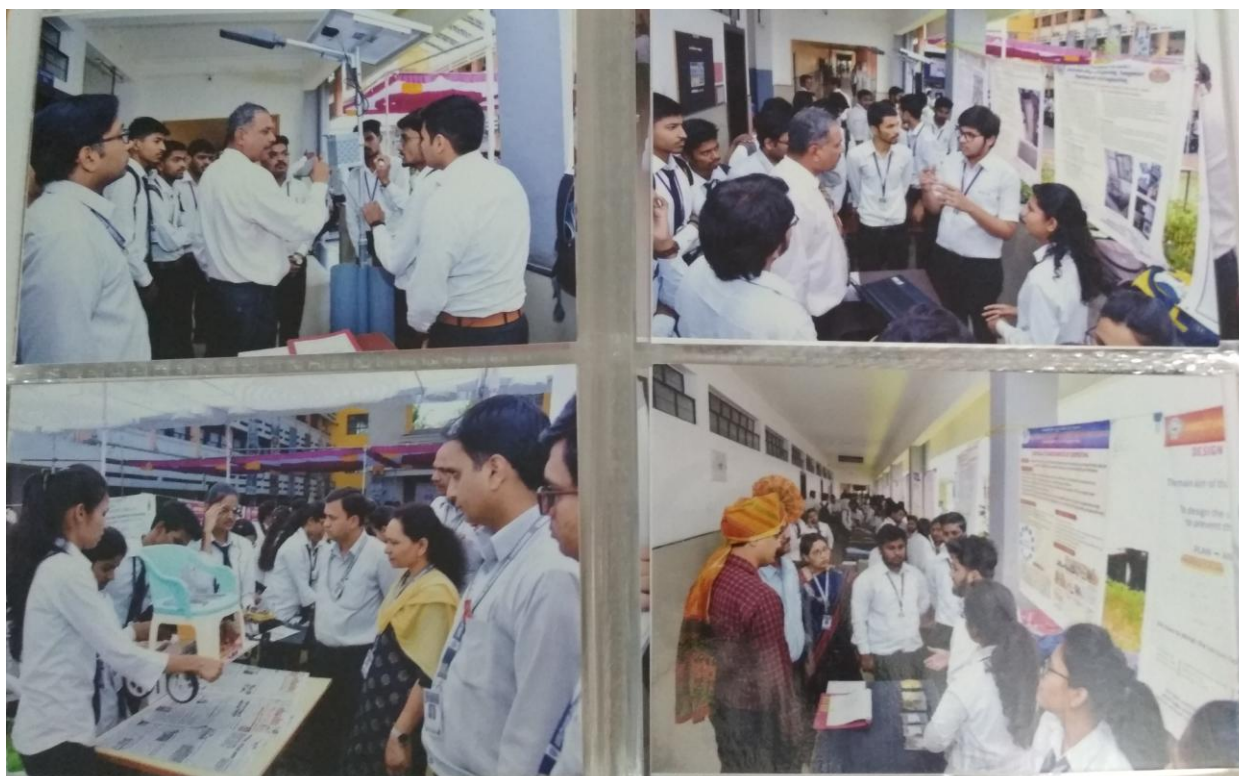


Figure 18: Some glimpses of project exhibition Amrut Expo 2019.