



AJEENKYA
D.Y. PATIL UNIVERSITY
THE INNOVATION UNIVERSITY

School of
Engineering

Value added course in

DESIGN FOR RELIABILITY

12 March, 2018

Subhasis Chaudhuri

SPEAKER

MR. UTTAM KUMAR

CO-CORDINATOR

DR.BISWAJEET CHAMPATY

HEAD OF SCHOOL

CONTACT DETAILS

Mr. Uttam Kumar
8946848620

Note : Certificate will be awarded for the participant having above 75% of attendance

2018-19



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School of Engineering

Name of Certificate Course: Design for Reliability

Certificate Course for B. Tech All Students

Course Duration: 32 Hrs.

From: 12th March 2019 to 04th April 2019

Course Objectives:

- To get familiar with the concept of reliability and warranty.
- To study the different reliability calculation functions and matrices.
- To study the reliability Evaluation and allocation methods
- To understand the reliability verification techniques and its implementation.
- Understanding the concept of reliability on mechanical, construction, electronics and complex systems

Course Outcomes

- Develop a fundamental understanding of personal finance principles, including budgeting and saving, and investing, to make informed financial decisions.
- Acquire knowledge and skills related to managing debt, credit, and loans responsibly to maintain a healthy financial profile.
- Explore various investment options and strategies, learning how to assess risk and maximize returns to achieve long-term financial goals.
- Gain insight into the importance of financial planning, including retirement and estate planning, to secure a stable financial future
- Foster Financial awareness and responsible financial being and achieve financial independence.



Course Coordinator: Mr. Uttam Kumar

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Charholi Budruk, via Lohegaon,
Pune, India-412105

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Date: 02nd March 2019

School of Engineering

Circular

Dear all SOE students

For the Academic year 2022-2023, the school of Engineering to offer you innovative value-added course which shall help you to excel in careers as well as equip yourself with new-age creative and technical skills essential to face new world.

Title of Certificate Course: Design for Reliability

Details of Trainer: Dr. Subhasis Chaudhuri

Name of Coordinator: Mr. Uttam Kumar

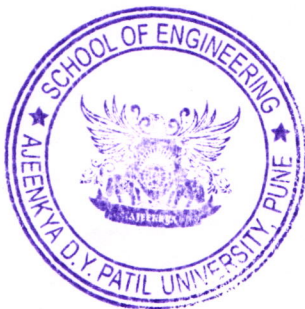
Duration of Course: 32 Hrs.

Schedule: 12th March 2019 to 04th April 2019

Timing: 10:00 to 12:30 Pm

Venue: School of Engineering

Evaluation Method: 75% Attendance is mandatory to get certified in this training program.



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School of Engineering

Certificate Course Design for Reliability

Syllabus

Unit I. Introduction and Failure Data Analysis (6)

Reliability Function - MTBF - MTTF - Mortality Curve - Availability
-Maintainability. Repair Time Distributions - Exponential, Normal, Log Normal,
Gamma, And Weibull
-Reliability Data Requirements - Graphical Evaluation.

Unit II. Reliability Prediction (8)

Failure Rate Estimates - Effect of Environment and Stress - Series and Parallel
Systems - RBD Analysis- Standby Systems - Complex Systems.

Unit III. Reliability Management (8)

Reliability Demonstration Testing - Reliability Growth Testing -Duane Curve -
Risk Assessment - FMEA, FTA, Monte Carlo Simulations, Delphi Models.

Unit IV. Total Productive Maintenance (8)

Causes of Machine Failures - Downtime - Maintenance Policies - Restorability
Predictions - Replacement Models - Spares Provisioning -Maintenance
Management – Total Productive Maintenance – Maximizing Equipment
Effectiveness

Unit V. Applications of TPM (2)

Organizing for TPM Implementation –Implementation – TPM Small Group
Activities.





School of Engineering
Certificate Course Design of Reliability
Teaching plan

Date	Day	Time	Topics	Duration
Mar 27, 2019	Wednesday	10:00 AM - 12:30 PM	Introduction to Energy Conservation: Core concepts, Indian energy scenario, sectorial energy consumption	2.5 hours
Mar 28, 2019	Thursday	10:00 AM - 12:30 PM	Energy needs of a growing economy, energy intensity, long-term energy scenario	2.5 hours
Mar 29, 2019	Friday	10:00 AM - 12:30 PM	Energy pricing, energy security, energy conservation importance, energy strategy for the future	2.5 hours
Apr 1, 2019	Monday	10:00 AM - 12:30 PM	Energy Monitoring and Targeting: Investment needs, appraisal criteria, financial analysis techniques	2.5 hours
Apr 2, 2019	Tuesday	10:00 AM - 12:30 PM	Simple payback period, ROI, NPV, IRR, cash flows, risk and sensitivity analysis	2.5 hours
Apr 3, 2019	Wednesday	10:00 AM - 12:30 PM	Financing options, energy performance contracts, role of Energy Service Companies (ESCOs)	2.5 hours
Apr 4, 2019	Thursday	10:00 AM - 12:30 PM	Defining Monitoring & Targeting, data analysis techniques: energy consumption, CUSUM	2.5 hours
Apr 5, 2019	Friday	10:00 AM - 12:30 PM	Energy Management Information Systems (EMIS)	2.5 hours
Apr 8, 2019	Monday	10:00 AM - 12:30 PM	Energy Auditing: Definitions, types, understanding energy costs, benchmarking	2.5 hours
Apr 9, 2019	Tuesday	10:00 AM - 12:30 PM	Energy performance, matching energy use to requirements, maximizing system efficiencies	2.5 hours
Apr 10, 2019	Wednesday	10:00 AM - 12:30 PM	Energy audit instruments, fuel and energy substitution, auditing processes	2.5 hours
Apr 11, 2019	Thursday	10:00 AM - 12:30 PM	Case Studies and Review Session	2.5 hours



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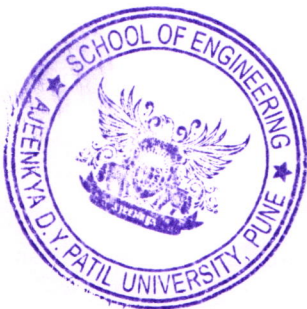
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Certificate Course Design of Reliability

Time table

Date	Day	Time	Duration	Notes
Mar 12, 2019	Tuesday	10:00 AM - 12:30 PM	2.5 hours	Introduction to Design for Reliability
Mar 13, 2019	Wednesday	10:00 AM - 12:30 PM	2.5 hours	Reliability Engineering Fundamentals
Mar 14, 2019	Thursday	10:00 AM - 12:30 PM	2.5 hours	Probability and Statistics in Reliability
Mar 15, 2019	Friday	10:00 AM - 12:30 PM	2.5 hours	Reliability Modeling and Analysis
Mar 18, 2019	Monday	10:00 AM - 12:30 PM	2.5 hours	Design for Reliability (DfR) Processes
Mar 19, 2019	Tuesday	10:00 AM - 12:30 PM	2.5 hours	Reliability Testing
Mar 20, 2019	Wednesday	10:00 AM - 12:30 PM	2.5 hours	Maintenance Strategies
Mar 21, 2019	Thursday	10:00 AM - 12:30 PM	2.5 hours	DfR in Electronics
Mar 22, 2019	Friday	10:00 AM - 12:30 PM	2.5 hours	Reliability in Mechanical Design
Mar 25, 2019	Monday	10:00 AM - 12:30 PM	2.5 hours	Software Reliability
Mar 26, 2019	Tuesday	10:00 AM - 12:30 PM	2.5 hours	Case Studies in DfR
Mar 27, 2019	Wednesday	10:00 AM - 12:30 PM	2.5 hours	Review and Final Discu



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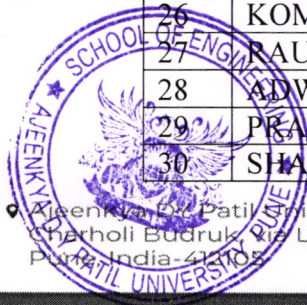


School of Engineering

Certificate Course Design of Reliability

List of Students

S.N.	NAME OF STUDENT	URN
1	AKSHAY BHARAT BANKAR	2016-B-28121998
2	ANUSHKA KUMAR	2016-B-02031998
3	AQIB KAPOOR	2016-B-28121997
4	AQUIB ALI	2016-B-18071997
5	AVADHOOT BHASKAR SHEJWALKAR	2016-B-13121997
6	BHAVIL NAGAR	2016-B-17011999
7	BHUSHAN BELANEKAR	2016-b-26121998
8	DHANANJAY KRISHNA BIRMOLE	2016-B-22111998
9	ESHWAR DEEPAK DHAT	2016-B-11111997
10	HRISHIKESH PRAVIN SHINDE	2016-B-22051998
11	KSHITIJ AVINASH RAJE	2016-B-23041999
12	KSHITIJ MADHUKAR JAGTAP	2016-B-13121996
13	KUNJ MANISH VACHHANI	2016-B-08061997
14	NEERAJ SANJAY MOGAL	2016-B-28061997
15	NIRMAL MOURYA	2016-B-15041998
16	PRANSHU PRASHANT TOPLE	2016-B-14101998
17	PRASANA PRAFFUL SANCHETI	2016-B-29071998
18	ROHIT SRINIVAS REDDY	2016-B-27081998
19	SANKALP SUNIL SAHU	2016-B-27021998
20	SHASHWAT SHRIVASTAVA	2016-B-25111997
21	SHUBHAM DIPANKAR NANDI	2016-B-12071998
22	SNEHA AGARWAL	2016-B-19051998
23	VIRAJ VASANT WADIKAR	2016-B-19011998
24	VISHAL VIKAS MAHADIK	2016-B-28021998
25	YATISH CHHOTURAM KUMAVAT	2016-B-04081998
26	KOMAL BABULAL MEENA	2016-B-27111998
27	RAUSHAN KUMAR	2016-B-04091996
28	ADWAIT SUNIL NATU	2016-B-29041998
29	PRAMIL SINGH	2016-B-09091996
30	SHAITAN SINGH PARMAR	2016-B-18101997





31	NISHIT KUMAR	
32	ADITI JOSHI	2016-B-04031998
33	ETISHA SHANTARAM GURAV	2016-B-21021998
34	LINA DIGAMBER PHADTE	2016-B-27041998
35	MINERVA SARMA	2016-B-16051997
36	MOHAMMED SHAFI KP	2016-B-04021998
37	NADEEM MAJID LONE	2016-B-22071999
38	PRABHUKALYANA NAYAK	2016-B-27051997
39	RAJ SANJAY THAKARE	2016-B-11101998
40	RASHNI BISWAS	2016-B-23051998
41	LEANDRA NADAN JOSEPH	2016-B-25011998
42	ANSHU SINGH	2016-B-02081996
43	DIKSHA ZITSHI	2016-B-02041998
44	HARSHADA PAWAR	2016-B-12101997
45	JAYEE VINOD SAPATNEKAR	2016-B-08041998
46	MOHAMMED KAZIM ALIRAZA MUK	2016-B-15111998
47	SHIVANI DEEPAK GUPTA	2016-B-13031997
48	SWARNENDU GHOSH	2016-B-09111998
49	TANYA BERA	2016-B-16091998
50	VAISHNAVI GUPTA	2016-B-27041997
51	ADITYA LILADHAR TALELE	2016-M-10081993
52	AJAY UPADHAYAY	2016-M-18021994
53	MEDIJALA SANTOSH KUMAR	2016-M-20101994
54	NILESH TUKARAM KHAIRNAR	2016-M-08121994
55	NIRVAY KUMAR	2016-M-01061992
56	SIDHARTH SHARMA	2016-M-23091993
57	SUPINDER SINGH GILL	2016-M-16011995
58	NUPUR CHACHRA SHARMA	2016-M-03051989



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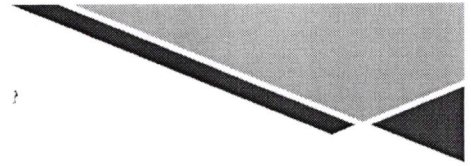
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Certificate Course in Design of Design for Reliability

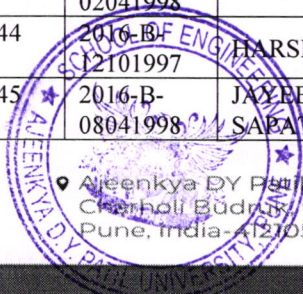
Students Attendance

Academic Year		2018-19	Design for Reliability											
School Name		School of Engineering												
S.N.	URN	Name of Student	1 12-Mar	2 14-Mar	3 18-Mar	4 20-Mar	5 22-Mar	6 25-Mar	7 27-Mar	8 29-Mar	9 01-Apr	10 02-Apr	11 03-Apr	12 04-Apr
1	2016-B-28121998	AKSHAY BHARAT BANKAR	A	1	1	1	1	1	1	1	1	1	1	1
2	2016-B-02031998	ANUSHKA KUMAR	1	A	1	1	1	1	1	1	1	1	1	1
3	2016-B-28121997	AQIB KAPOOR	1	1	A	1	1	1	1	1	1	A	1	1
4	2016-B-18071997	AQUIB ALI	1	1	1	1	1	1	1	1	1	1	1	1
5	2016-B-13121997	AVADHOOT BHASKAR SHEJWALKAR	1	1	1	1	1	1	A	1	1	1	1	1
6	2016-B-17011999	BHAVIL NAGAR	1	1	1	1	1	1	A	1	1	1	1	1
7	2016-b-26121998	BHUSHAN BELANEKAR	1	1	1	1	1	1	1	1	1	1	1	1
8	2016-B-22111998	DHANANJAY KRISHNA BIRMOLE	1	1	1	1	1	1	1	1	1	1	1	1
9	2016-B-11111997	ESHWAR DEEPAK DHAT	1	1	1	1	1	1	A	1	1	1	1	1
10	2016-B-22051998	HRISHIKESH PRAVIN SHINDE	1	1	A	1	1	1	1	1	1	1	1	1
11	2016-B-23041999	KSHITIJ AVINASH RAJE	1	1	1	1	1	1	1	1	1	1	1	1
12	2016-B-13121996	KSHITIJ MADHUKAR JAGTAP	1	1	1	1	A	1	1	1	1	1	1	1
13	2016-B-08061997	KUNJ MANISH VACHHANI	1	1	1	1	1	1	1	1	1	1	1	1
14	2016-B-28061997	NEERAJ SANJAY MOGAL	1	1	1	1	1	1	A	1	1	1	1	1
15	2016-B-15041998	NIRMAL MOURYA	1	1	A	1	1	1	1	1	1	1	1	1
16	2016-B-14101998	PRANSHU PRASHANT TOPLE	1	1	1	1	1	1	1	1	1	1	1	1
17	2016-B-29071998	PRASANA PRAFFUL SANCHETI	1	1	1	1	1	1	1	1	1	1	1	1
18	2016-B-27081998	ROHIT SRINIVAS REDDY	1	1	1	1	1	1	1	1	1	1	1	1
19	2016-B-27021998	SANKAR SUNIL SAHU	1	1	1	1	1	1	1	1	1	1	1	1

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20	2016-B-25111997	SHASHWAT SHRIVASTAVA	1	1	1	1	1	1	1	1	1	1	1	1	A
21	2016-B-12071998	SHUBHAM DIPANKAR NANDI	A	1	1	1	1	1	1	1	1	1	1	1	1
22	2016-B-19051998	SNEHA AGARWAL	1	1	1	1	1	1	1	1	1	1	1	1	1
23	2016-B-19011998	VIRAJ VASANT WADIKAR	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2016-B-28021998	VISHAL VIKAS MAHADIK	1	1	1	1	1	1	1	1	A	1	1	1	1
25	2016-B-04081998	YATISH CHHOTURAM KUMAVAT	1	1	1	1	1	1	1	1	1	1	1	1	1
26	2016-B-27111998	KOMAL BABULAL MEENA	1	A	1	1	1	1	1	1	1	1	A	1	1
27	2016-B-04091996	RAUSHAN KUMAR	1	1	1	1	1	1	1	1	1	1	1	1	1
28	2016-B-29041998	ADWAIT SUNIL NATU	A	1	1	1	1	1	1	1	1	1	1	1	1
29	2016-B-09091996	PRAMIL SINGH	1	A	1	1	1	1	1	1	1	1	1	1	1
30	2016-B-18101997	SHAITAN SINGH PARMAR	1	1	A	1	1	1	1	1	1	A	1	1	1
31		NISHIT KUMAR	1	1	1	1	1	1	1	1	1	1	1	1	1
32	2016-B-04031998	ADITI JOSHI	1	1	1	1	1	1	A	1	1	1	1	1	1
33	2016-B-21021998	ETISHA SHANTARAM GURAV	1	1	1	1	1	1	A	1	1	1	1	1	1
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35	2016-B-16051997	MINERVA SARMA	1	1	1	1	1	1	1	1	1	1	1	1	1
36	2016-B-04021998	MOHAMMED SHAFI KP	1	1	1	1	1	1	A	1	1	1	1	1	1
37	2016-B-22071999	NADEEM MAJID LONE	1	1	A	1	1	1	1	1	1	1	1	1	1
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39	2016-B-11101998	RAJ SANJAY THAKARE	1	A	1	1	1	1	1	1	1	1	1	1	1
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41	2016-B-25011998	LEANDRA NADAN JOSEPH	1	1	1	1	A	1	1	1	1	1	1	1	1
42	2016-B-02081996	ANSHU SINGH	1	1	1	1	1	1	1	1	1	1	1	1	1
43	2016-B-02041998	DIKSHA ZITSHI	1	1	1	1	1	1	A	1	1	1	1	1	1
44	2016-B-12101997	HARSHADA PAWAR	1	1	A	1	1	1	1	1	1	A	1	1	1
45	2016-B-08041998	JAYEE VINOD SAPATNEKAR	1	1	1	1	1	1	1	A	1	1	1	1	1



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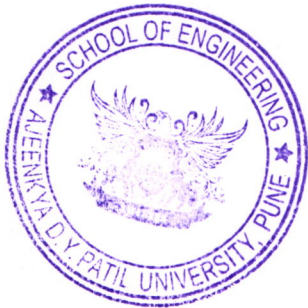
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46	2016-B-15111998	MOHAMMED KAZIM ALIRAZA MUK	A	1	1	1	1	1	1	1	A	1	1	1
47	2016-B-13031997	SHIVANI DEEPAK GUPTA	1	1	1	1	1	1	1	1	1	1	1	A
48	2016-B-09111998	SWARNENDU GHOSH	A	1	1	1	1	1	1	1	1	1	1	1
49	2016-B-16091998	TANYA BERA	1	1	A	1	1	1	1	1	1	1	1	1
50	2016-B-27041997	VAISHNAVI GUPTA	1	1	A	A	A	A	A	A	A	A	A	A
51	2016-M-10081993	ADITYA LILADHAR TALELE	1	A	1	1	1	1	1	1	1	1	1	1
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53	2016-M-20101994	MEDIJALA SANTOSH KUMAR	1	1	1	1	A	1	1	1	1	1	1	1
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57	2016-M-16011995	SUPINDER SINGH GILL	1	1	1	1	1	1	1	1	1	1	1	1
58	2016-M-03051989	NUPUR CHACHRA SHARMA	1	1	1	1	1	1	1	1	1	1	1	1



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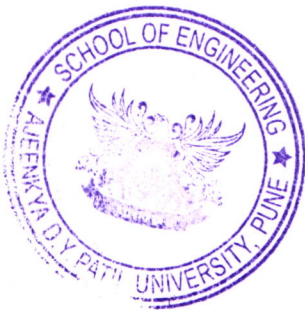
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Certificate Course in Design of Reliability

Evaluation Plan

- 75 % attendance is mandatory for this training program.
- Student should get a minimum 60% score on the Multiple-Choice Questions Test.

Certificate Grade	Percentage of Attendance
A	80% +
B	60 to 79.9
C	50 % to 59.9%
D	40% to 49.9%
Get Participation Certificate	35 % to 40%



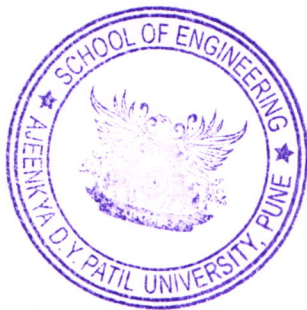
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Certificate Grade	Percentage of Attendance
A	80% +
B	60 to 79.9
C	50 % to 59.9%
D	40% to 49.9%
Get Participation Certificate	35 % to 40%



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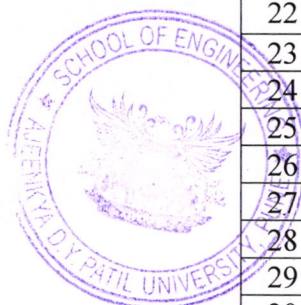


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Certificate Course in Design of Reliability

List of Students to Whom Certificates are Distributed

S.N.	NAME OF STUDENT	URN
1	AKSHAY BHARAT BANKAR	2016-B-28121998
2	ANUSHKA KUMAR	2016-B-02031998
3	AQIB KAPOOR	2016-B-28121997
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14	NEERAJ SANJAY MOGAL	2016-B-28061997
15	NIRMAL MOURYA	2016-B-15041998
16	PRANSHU PRASHANT TOPLE	2016-B-14101998
17	PRASANA PRAFFUL SANCHETI	2016-B-29071998
18	ROHIT SRINIVAS REDDY	2016-B-27081998
19	SANKALP SUNIL SAHU	2016-B-27021998
20	SHASHWAT SHRIVASTAVA	2016-B-25111997
21	SHUBHAM DIPANKAR NANDI	2016-B-12071998
22	SNEHA AGARWAL	2016-B-19051998
23	VIRAJ VASANT WADIKAR	2016-B-19011998
24	VISHAL VIKAS MAHADIK	2016-B-28021998
25	YATISH CHHOTURAM KUMAVAT	2016-B-04081998
26	KOMAL BABULAL MEENA	2016-B-27111998
27	RAUSHAN KUMAR	2016-B-04091996
28	ADWAIT SUNIL NATU	2016-B-29041998
29	PRAMIL SINGH	2016-B-09091996
30	SHAITAN SINGH PARMAR	2016-B-18101997





31	NISHIT KUMAR	
32	ADITI JOSHI	2016-B-04031998
33	ETISHA SHANTARAM GURAV	2016-B-21021998
34	LINA DIGAMBER PHADTE	2016-B-27041998
35	MINERVA SARMA	2016-B-16051997
36	MOHAMMED SHAFI KP	2016-B-04021998
37	NADEEM MAJID LONE	2016-B-22071999
38	PRABHUKALYANA NAYAK	2016-B-27051997
39	RAJ SANJAY THAKARE	2016-B-11101998
40	RASHNI BISWAS	2016-B-23051998
41	LEANDRA NADAN JOSEPH	2016-B-25011998
42	ANSHU SINGH	2016-B-02081996
43	DIKSHA ZITSHI	2016-B-02041998
44	HARSHADA PAWAR	2016-B-12101997
45	JAYEE VINOD SAPATNEKAR	2016-B-08041998
46	MOHAMMED KAZIM ALIRAZA MUK	2016-B-15111998
47	SHIVANI DEEPAK GUPTA	2016-B-13031997
48	SWARNENDU GHOSH	2016-B-09111998
49	TANYA BERA	2016-B-16091998
50	VAISHNAVI GUPTA	2016-B-27041997
51	ADITYA LILADHAR TALELE	2016-M-10081993
52	AJAY UPADHAYAY	2016-M-18021994
53	MEDIJALA SANTOSH KUMAR	2016-M-20101994
54	NILESH TUKARAM KHAIRNAR	2016-M-08121994
55	NIRVAY KUMAR	2016-M-01061992
56	SIDHARTH SHARMA	2016-M-23091993
57	SUPINDER SINGH GILL	2016-M-16011995
58	NUPUR CHACHRA SHARMA	2016-M-03051989



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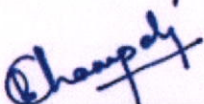
CERTIFICATE OF PARTICIPATION & COMPLETION

This is to certify that, Mr./Ms. Anushka Kumar of
School of Engineering, Ajeenkya D Y Patil University, Pune

has enrolled and successfully completed the Value Added Course entitled Design for Reliability
organized by the School of
Engineering, Ajeenkya DY Patil University, Pune held during 12th March 2019 to 04th April 2019.


Mr. Utam Kumar

Co-ordinator



Dr. Biswajeet Champaty
Head, SOE-ADYPU