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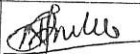

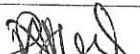
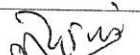


(A) realized by $\Delta(0)$ with $n = 0$ (realized by the class of MA elements)
with one letter from the alphabet $\{a, b\}$, and one generator from the set $\{x_1, x_2, \dots, x_n\}$.
(B) realized by $\Delta(A)$ with $n = 1$ (realized by the class of MA elements)
with two letters from the alphabet $\{a, b\}$, and one generator from the set $\{x_1, x_2, \dots, x_n\}$.

Department of Electronics and Telecommunication Engineering

BE- E & TC 22-23 Sem-2 Project Evaluation Sheet

Date: 05/05/23

Sr No	Name of Student	Sign	Technical credibility (knowledge, understanding, etc) (5)	Usage of Modern Tools(5)	Hardware/software design & Analysis (10)	Oral presentation and Effective communication (10)	Demonstration of Project (10)	Overall Presented effectively as a team (10)	Total (50)
1	Nijay D. Amble		05	05	08	09	10	10	47
2	Nignesh S. Zyer		05	05	08	09	10		47
3	Amol N. Rathod		04	04	08	09	10		45
4	Mayuni M. Datar		04	04	08	08	09		43

Guide's Signature

Phalun

Project Coordinator

Dr R. R. Itkarsen

KENNEDY ROAD, PUNE-411 001

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Department of Electronics & Telecommunication
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ASSMS's COE PUNE-44 1001.


 External Evaluator Name & Sign

James Head

Head

Department of Electronics & Telecommunication
15, COE PUNE-411001.

38 COE PUNE-411001

Group no 9- (14)



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Approved by AICTE, New Delhi, India, vide letter No. 1/2014 dated 12/01/2014.
Approved by the Council of Engineers, Maharashtra, vide letter No. 1/2014 dated 12/01/2014.
Approved by the Government of Maharashtra, vide letter No. 1/2014 dated 12/01/2014.
Approved by the Government of India, vide letter No. 1/2014 dated 12/01/2014.

Department of Electronics and Telecommunication Engineering

BE- E & TC 22-23 Sem-2 Project Evaluation Sheet

Date: 05/05/23

Sr No	Name of Student	Sign	Technical credibility (knowledge, understanding, etc) (5)	Usage of Modern Tools(5)	Hardware/ software design & Analysis (10)	Oral presentation and Effective communication (10)	Demonstration of Project (10)	Overall Presented effectively as a team (10)	Total (50)
1	Himalay Khachane		4	5	6	7	8	9	38
2	Minal Pandey		4	5	6	6	7		36
3	Rutyja Rout		4	5	6	7	8		38
4	Gonika Wadake		4	5	6	6	7		36

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Project Coordinator

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Head

Department of Electronics & Telecommunication
AISSMS's COE PUNE-411001.

External Evaluator Name & Sign

P S Teelkar

HOD E & TC

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Design + implementation of an efficient algorithm
in device-to-device (D2D) commⁿ in 5G
towards security.

Group no:- (15)



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BE- E & TC 22-23 Sem-2 Project Evaluation Sheet

Date: 05/05/23

Sr No	Name of Student	Sign	Technical credibility (knowledge, understanding, etc) (5)	Usage of Modern Tools(5)	Hardware/software design & Analysis (10)	Oral presentation and Effective communication (10)	Demonstration of Project (10)	Overall Presented effectively as a team (10)	Total (50)
1	SHRUTI PATEL	<i>[Signature]</i>	5	4	4	10	10	10	48
2	RUTAM KHATZ	<i>[Signature]</i>	5	4	4	10	10		48
3	PRITAM MUNDE	<i>[Signature]</i>	5	4	4	10	10		48
4									

Guide's Signature

[Signature]
V V Deshmukh

[Signature]
Dr. V N Patil
External Evaluator Name & Sign



Project Coordinator

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[Signature]
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Group no :- (16)



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BE- E & TC 22-23 Sem-2 Project Evaluation Sheet

Date: 05/05/23

Sr No	Name of Student	Sign	Technical credibility (knowledge, understanding, etc) (5)	Usage of Modern Tools(5)	Hardware/ software design & Analysis (10)	Oral presentation and Effective communication (10)	Demonstration of Project (10)	Overall Presented effectively as a team (10)	Total (50)
1	Amisha Yeole	<i>Amisha</i>	5	5	8	8	5	8	39
2	Divya Sutar	<i>DS</i>	5	5	8	8	5		39
3	Veushali Gaikwad	<i>Veushali</i>	5	5	8	8	5		39
4									

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External Evaluator Name & Sign

Dr. D. P. Gaikwad

HOD E & TC

Department of Electronics & Telecommunication
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(U No. PU/PUE/Engg/0003/1994)
(Accredited by NAAC with grade A+)

Department of Electronics and Telecommunication Engineering

Project Stage-1 Term Work Evaluation Sheet

date: 14/11/22

Sr No	Name of Student	Sign	Project Idea (5)	Depth of Knowledge (10)	Design and Simulation (10)	Oral Presentation (5)	Project Budget (5)	Timely Submission (10)	Team work (5)	Total
1	Saumya		4	8	9	4	4	9	4	42
2	Janhavi Dabbade		4	8	9	4	4	9	4	42
3	Shruti Gadhave		4	8	9	4	4	9	4	42
4										

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Evaluation Committee: 1.

2.

3.

Project Coordinator

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Head

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(Accredited by NAAC with grade A+)



Department of Electronics and Telecommunication Engineering

Project Stage-1 Term Work Evaluation Sheet

Date 14/11/22

Sr No	Name of Student	Sign	Project Idea (5)	Depth of Knowledge (10)	Design and Simulation (10)	Oral Presentation (5)	Project Budget (5)	Timely Submission (10)	Team work (5)	Total
1	Ganesh Rajesh Kadam		3	8	8	4	4	8	4	39
2	Shivam Pravin Kalane		3	8	8	4	4	8	4	39
3	Aditya Bhausaheb Kulkarni		3	8	8	4	4	8	4	39
4										

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Evaluation Committee: 1.

2.

3.

Project Coordinator

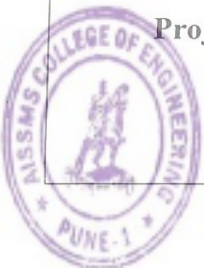
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Head

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22-23
Rubric



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Department of Electronics and Telecommunication Engineering

Final Year Project Review-2 Rubrics

Title of Project: MULTI-banking ATM system service using Biometric Academic year: 2022-23

Name of Student Raut Rutuja.

Name of Guide: Prof. J. P. Lad.

S N	Assessment indices	Inadequate (1)	Average (3)	Admirable (5)	Outstanding (6)	Score
Team work assessment seminar (B1)						
1	Design and Component selection (CO3- PO1, PO2, PO3, PO4)	Design done no selection of components	Partial Design done and selection of components	Satisfactory Design and Component selection	Excellent Work in Design and Component selection	3
2	Simulation (CO3- PO5)	No Simulation executed	Low use of advance tool for design & simulation	Moderate use of advance tool for design & simulation	Extensive use of advance tool for design & simulation	3
3	Oral presentation and Effective communication as team member (CO4- PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills.	Demonstrated Excellently technical al details and communicated effectively .	3
4	Estimation of Project Budget (CO3- PO11)	Poor planning and Management	Average planning and Management	Good planning and Management	Excellent planning and Management	3
Total						12

Guide Name with Sign

Jad
Prof. J. P. Lad

Amur
Head



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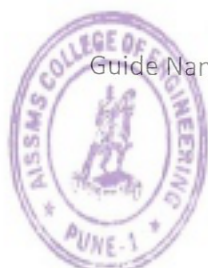
Final Year Project Seminar Review Rubrics

Title of Project: Multi banking ATM system service using Biometric Academic year: 2022-23

Name of Student: Raut Rutuja

Name of Guide: Prof. J.P. Lad

S N	Assessment indices	Inadequate (2)	Average (4)	Admirable (6)	Outstanding (8)	Score
Team work assessment seminar (B1)						
1	Depth of Knowledge (CO3- PO1,PO2)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation	Exceeds expectation	4
2	Hardware, Software Design (CO3- PO2,PO3,PO4,PO5)	No Simulation executed	Low use of advance tool for design & simulation	Moderate use of advance tool for design & simulation	Satisfactory use of advance tool for design & simulation	4
3	Oral presentation and Effective communication (CO4- PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills.	Demonstrated Excellentlly technical al details and communicated effectively .	4
4	Contribution as a team member(CO4- PO9)	Contribution only in documentation	Contribution in documentation and presentation preparation	Contribution in documentation, presentation, requirements and specification	Contribution in over all work	4
5	Partial Demonstration (CO4- PO3,PO4)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation	Exceeds expectation	4
Total						20



Guide Name with Sign

J.P. Lad
Mrs. J.P. Lad

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Department of Electronics and Telecommunication Engineering

Final Year Project Review-1 Rubrics

Title of Project: MULTI-banking ATM system service using biometric Academic year: 2022-23

Name of Student Raut Rutuja.

Name of Guide: Prof. J.P. Lad.

S N	Assessment indices	Inadequate (1)	Average (2)	Admirable (3)	Outstanding (4)	Score
Team work assessment seminar (B1)						
1	Problem Identification/ Topic Selection (CO1-PO1,PO2)	Useful for limited group and not innovative	Useful for society but not innovative	Somewhat innovative and useful for society	Complete Innovative and useful for society	3
2	Literature Survey (CO2-PO2, PO4)	Not followed standard references	Followed conference paper	Journals but not standard	Followed standard Scopus, SCI, Web of science etc.. journals	3
3	Methodology and Depth of Understanding (CO3- PO1,PO2, PO3)	Nearly meet expectations	Meets expectation in some manner	Extend expectation in some manner	Exceeds expectation	3
Total						9

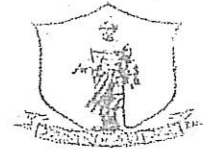
Guide Name with Sign

Jad
Prof. J.P. Lad



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Department of Electronics and Telecommunication Engineering

Final Year Project Review-1 Rubrics

Title of Project: Microstrip patch antenna for 5G Application Academic year: 22-23

Name of Student Abhishek Bharat Shinde

Name of Guide: S.B. Dhokale

S N	Assessment indices	Inadequate (1)	Average (2)	Admirable (3)	Outstanding (4)	Score
Team work assessment seminar (B1)						
1	Problem Identification/ Topic Selection (CO1-PO1,PO2)	Useful for limited group and not innovative	Useful for society but not innovative	Somewhat innovative and useful for society	Complete Innovative and useful for society	3
2	Literature Survey (CO2-PO2, PO4)	Not followed standard references	Followed conference paper	Journals but not standard	Followed standard Scopus, SCI, Web of science etc.. journals	3
3	Methodology and Depth of Understanding (CO3- PO1,PO2, PO3)	Nearly meet expectations	Meets expectation in some manner	Exceeds expectation in some manner	Exceeds expectation	3
Total						9

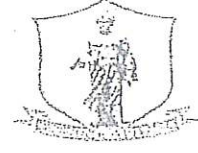
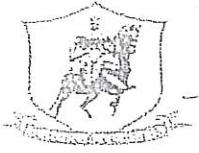
Guide Name with Sign

S.B. Dhokale



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Department of Electronics and Telecommunication Engineering

Final Year Project Review-2 Rubrics

Title of Project: Microstrip patch antenna for 5G Application Academic year: 22-23

Name of Student: Abhishek Bharat Shinde

Name of Guide: S.B. Dhale

S N	Assessment indices	Inadequate (1)	Average (3)	Admirable (5)	Outstanding (6)	Score
Team work assessment seminar (B1)						
1	Design and Component selection (CO3- PO1, PO2, PO3, PO4)	Design done no selection of components	Partial Design done and selection of components	Satisfactory Design and Component selection	Excellent Work in Design and Component selection	5
2	Simulation (CO3- PO5)	No Simulation executed	Low use of advance tool for design & simulation	Moderate use of advance tool for design & simulation	Extensive use of advance tool for design & simulation	5
3	Oral presentation and Effective communication as team member (CO4- PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills.	Demonstrated Excellently technical al details and communicated effectively .	5
4	Estimation of Project Budget (CO3- PO11)	Poor planning and Management	Average planning and Management	Good planning and Management	Excellent planning and Management	5
Total						20

Guide Name with Sign

S.B. Dhale



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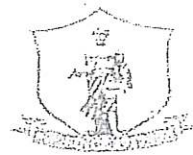
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Final Year Project Seminar Review Rubrics

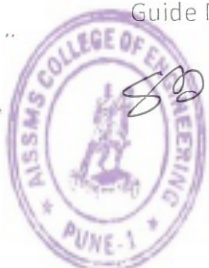
Title of Project: Microstrip patch antenna for 5G application Academic year: 2022-23

Name of Student Abhishek Bharat Shinde

Name of Guide: S.B. Dhokale

S N	Assessment indices	Inadequate (2)	Average (4)	Admirable (6)	Outstanding (8)	Score
Team work assessment seminar (B1)						
1	Depth of Knowledge (CO3- PO1,PO2)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation ✓	Exceeds expectation	6
2	Hardware, Software Design (CO3- PO2,PO3,PO4,PO5)	No Simulation executed	Low use of advance tool for design & simulation	Moderate use of advance tool for design & simulation ✓	Satisfactory use of advance tool for design & simulation	6
3	Oral presentation and Effective communication (CO4- PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills ✓	Demonstrated Excellently technical al details and communicated effectively .	6
4	Contribution as a team member(CO4- PO9)	Contribution only in documentation	Contribution in documentation and presentation preparation	Contribution in documentation, presentation, requirements and specification ✓	Contribution in over all work	6
5	Partial Demonstration (CO4- PO3,PO4)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation ✓	Exceeds expectation	6
Total						30

Guide Name with Sign



S.B. Dhokale

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Department of Electronics and Telecommunication Engineering

Final Year Project Review-3- Rubrics

Title of Project: Microstrip Patch Antenna for 5G application Academic year: 2022-23

Name of Student Abhishek Bharat Shinde

Name of Guide: S.B. Dhokale

S N	Assessment indices	Inadequate (1)	Average (3)	Admirable (5)	Outstanding (6)	Score
Team work assessment seminar (B1)						
1	Execution of hardware and software design (CO1- PO1,PO2,PO3,PO5)	No Execution	Partial Execution	Satisfactory Execution ✓	Excellent Work	5
2	PCB Making Hardware testing / Software testing (CO2- PO5)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation ✓	Exceeds expectation	5
3	Oral presentation and Effective communication (CO3- PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills. ✓	Demonstrated Excellently technical al details and communicated effectively .	5
4	Contribution as a team member(CO4-PO9)	Contribution only in documentation	Contribution in documentation and presentation preparation	Contribution in documentation, presentation, requirements and specification ✓	Contribution in over all work	5
Total						20

Guide Name with Sign

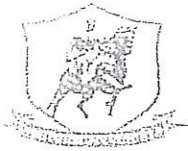
S.B. Dhokale



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Final Year Project Review-4- Rubrics

Title of Project: Microstrip patch antenna for 5G Application Academic year: 2022-23

Name of Student: Abhishek Bharat Shinde

Name of Guide: S. B. Dhurale

S N	Assessment indices	Inadequate (1)	Average (3)	Admirable (5)	Outstanding (6)	Score
Team work assessment seminar (B1)						
1	Analysis and validation of results (CO2-PO2,PO3)	Generated results but no interpretations and conclusion	Generated results with partial interpretations and conclusion	Satisfactory Generated results & interpretations and conclusion ✓	Excellent Work in Generation of results & interpretations and conclusion	5
2	Draft copy of Project Report(CO3-PO10)	Incomplete documentation	Partially documentation	Satisfactorily completed documentation using traditional application like word ✓	Detailed, appropriate documentation and made use of documentation software like latex	5
3	Oral presentation and Effective communication (CO3-PO10)	Demonstration with poor technical skills and communication	Demonstration with average technical skills and communication.	Demonstration with good technical al details and communication skills. ✓	Demonstrated Excellently technical al details and communicated effectively .	5
4	Contribution as a team leader(CO4-PO9)	Unable to lead the team	Few efforts to lead the team	Satisfactory efforts to lead the team ✓	Leaded the team with excellent coordination	5
Total						20

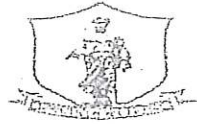
Guide Name with Sign

S B Dhurale



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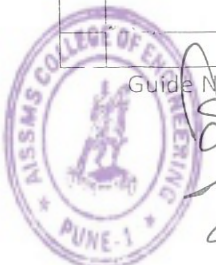
Final Year Final Project Review- Rubrics

Title of Project: Microstrip Patch Antenna for 5G Application Academic year: 2022-23

Name of Student: Abhishek Bhaskar Shinde

Name of Guide: S. B. Dhokale

S N	Assessment indices	Inadequate (1)	Average (2)	Admirable (3)	Outstanding (4)	Score
1	Technical Design(CO1-PO1,PO3)	Nearly meet expectations	Partially Meets expectation	Satisfactorily meets expectation ✓	Exceeds expectation	3
2	Level of Understanding and depth of Knowledge(CO2-PO1,PO2,PO3)	Work done but unable to explain the concepts	Partially understanding and Knowledge of project	Satisfactorily meets expectation ✓	Excellent understanding and Knowledge of project	3
3	Use of modern technology(CO1- PO5)	Poor use of advance tool for design & simulation	Partial use of advance tool for design & simulation	satisfactory use of advance tool for design & simulation ✓	Excellent use of advance tool for design & simulation	3
4	Result Analysis and its validation (CO2-PO2)	Generated results but no interpretations and conclusion	Generated results with partial interpretations and conclusion	Satisfactory Generated results & interpretations and conclusion ✓	Excellent Work in Generation of results & interpretations and conclusion	3
5	Log book & report documentation(CO3-PO10)	Lack of Timely submission and Incomplete log Book and report	Timely submission of documentation but unsatisfactory report preparation	Timely submission and Satisfactorily submission of documentation using traditional application like word ✓	Timely submission of Detailed and appropriate documentation and made use of documentation software like latex	3
6	Overall final Product quality(CO4- PO3)	Not suitable for real world application and Nearly meet expectations	Partly applicable for real world problem and Partially Meet expectation	Direct applicable for real world application and Satisfactorily meet expectations ✓	Direct applicable for real world application and Excellent work done on product quality	3
Total						18

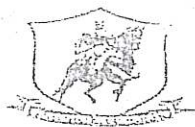


Guide Name with Sign

S. B. Dhokale

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S. B. Dhokale



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Department of Electronics and Telecommunication Engineering

Final Year Final Seminar Course outcome Rubrics

Title of Project: Meets stop patch antenna for 5G application Academic year: 2022-23

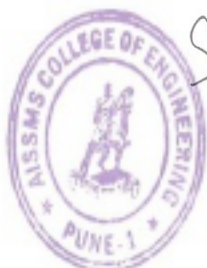
Name of Student Abhishek Bharat Shinde

Name of Guide: S.B. Dhokale

Sr. No.	Assessment criteria	Inadequate (1)	Average (2)	Admirable (3)	Outstanding (4)	Grade by Guide
1	Students have identified the area/field of project as per the society and industry need to work with multidisciplinary teams.(PO4, PO7)	Nearly meet expectations	Meets expectation in some manner:	Extend expectation in some manner ✓	Exceeds expectation	3
2	Considered latest trends in market (PO4)	Nearly meet expectations	Meets expectation in some manner:	Extend expectation in some manner ✓	Exceeds expectation	3
3	Apply knowledge to define the scope of work and provide solution by formulating synopsis with budget and time constraints(PO1, PO2, PO3, PO11)	Nearly meet expectations	Meets expectation in some manner	Extend expectation in some manner ✓	Exceeds expectation	3
4	Students have exhibited work effectively as a individual and in team with professional and ethical responsibility (PO9,PO10)	Nearly meet expectations	Meets expectation in some manner	Extend expectation in some manner ✓	Exceeds expectation	3
	Total					12

Signature
S.B. Dhokale

Signature
Head



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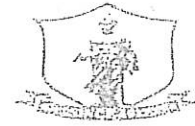
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ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Electronics and Telecommunication Engineering

Final Year Final Project Course outcome Rubrics

Title of Project: Microstrip Patch Antenna for 5G application Academic year: 2022-23

Name of Student: Abhishek Bharat Shinde

Name of Guide: S.B. Dhukale

Sr. No.	Assessment criteria	Inadequate (1)	Average (2)	Admirable (3)	Outstanding (4)	Grade by Guide
1	Students have analyzed and designed hardware and software models for identified problem using modern tools.(PO1,PO2,PO3,PO5)	Nearly meet expectations	Meets expectation in some manner:	Extend expectation in some manner ✓	Exceeds expectation	3
2	Students have developed and tested the designed system.(PO4)	Nearly meet expectations	Meets expectation in some manner:	Extend expectation in some manner ✓	Exceeds expectation	3
3	Students are able to write technical report and demonstrate the project with effective communication skill.(PO10)	Nearly meet expectations	Meets expectation in some manner:	Extend expectation in some manner ✓	Exceeds expectation	3
4	Students project management skill for lifelong learning has enhance(PO11,PO12)	Nearly meet expectations	Meets expectation in some manner:	Extend expectation in some manner ✓	Exceeds expectation	3
	Total					12

S.B. Dhukale

Head

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