



COLLEGE OF ENGINEERING BHUBANESWAR

Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India.

[AFFILIATED TO BPUT, ODISHA]

www.coeb.ac.in

DEPARTMENT OF AUTOMOBILE ENGINEERING

ADD-ON COURSE

Course Title: **Structural System Fundamentals**
Programme : **B. Tech.**
Branch : **Automobile Engineering**
Semester : **3rd**

Learning Objective:

- ❖ To provide student with an opportunity to develop technical competency in automobile engineering.
- ❖ To provide students an understanding of vehicle design.
- ❖ To have an understanding about the transmission system in vehicles.
- ❖ To provide students a general idea about safety consideration in automobiles.

.SYLLABUS

Total Lecture Hours: 40

MODULE 1:

(14 hours)

Chassis, Body Pattern, Aerodynamics, Safety considerations in automobiles. Structural components and materials, Engine mounting- Front, Rear, Centre, Engine types- C.I, S.I, two stroke, four stroke, Vertical inline, V-type, Transmission- Necessity of transmission, principles
Clutch - Necessity, requirements of a clutch system, types of Clutches, Types of transmission- Manual, Automatic, DCT, CVT, AMT, IVT

MODULE 2:

(14 hours)

Types of transmission- Sliding mesh, constant mesh, synchromesh, Transfer gear box, Gear Selector mechanism, Types of suspension- Swing axle, sliding pillar, Macpherson strut, Double wishbone, multi-link suspension, Semi-trailing arm suspension, Swinging arm, Principle of steering, Center point steering, Steering linkages, Steering geometry and Wheel alignment, Construction, operation and maintenance of Lead acid batteries.

MODULE 3:

(12 hours)

Battery charging system, Principles and Operation of cutout and regulators, Starter motor, Battery Ignition and magneto ignition systems ignition timing, alternators, Fuel tank , Fuel pump, Fuel injection, Exhaust, Catalytic converter, Engine cooling systems, Muffler/Silencers, Power steering, Special steering systems

Course Outcome:

After completion of course the students will be able to:

- CO1: Understand the fundamentals and importance of engines, engine components, fuel parameters and advancement in technology.
- CO2: Examine the aspects of vehicle design, engine construction and system components
- CO3: Understanding about the transmission system in vehicles.
- CO4: They will able to understand the fundamental of vehicle design

Text Book:

1. Book on Automotive Systems: Principles and Practices, First Edition, G.K.Awari, V.S.Kumbhar, R.B.Tirpude, CRC press, Taylor and Francis Group.

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2. Book on Modern Electric, Hybrid Electric and Fuel Cell Vehicles, Mehrdad Ehsani, Eimin Gao, Sebastien E. Gay, Ali Emadi. Power electronics and applications series, University of West Florida.
3. Book on Environmental Effects and Consumer Habits, Michael Beliveau, James Rehberger, Jonathan Rowell, Alyssa Xarras. Worcester Polytechnic Institute

Reference Text Book:

1. Bosch Automotive Handbook, Robert Bosch, 10th Edition
2. Automotive service: Inspection, Service and Repair. Tim Gilles. 6th Edition.

Online resources:

1. A Review on Hybrid Electric Vehicle Yasmeen Malik, Vikas Kumar, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering.
2. Hybrid Electric Vehicle Rushikesh Trushar Soni, Journal of Mechanical and Civil Engineering.

Evaluation Criteria

- Mandatory attendance of 75% for each student.
- Conduction of two internal assessments and students have to secure 50% marks in each assessment.
- Certificates will be awarded to each students fulfilling the above criteria.

Designed & developed by: Dr. Krishna & Prof. Pusparanjan Swain

Principal

Principal
College of Engineering Bhubaneswar

HOD, Automobile Engg.

Principal
College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR

Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India

NOTICE

Department of Automobile Engineering
Add On Course 2018-2019

Ref No: COEB/AE/2018/20

Date: 04.06.2018

It is hereby informed to all the students that the Department of Automobile Engineering is going to start the following Add-on courses for Academic year 2018-2019. All the students are instructed to enroll their names for the following courses on or before **23.06.2018**. The classes will be commenced from **17.07.2018** with timing from 5.30pm to 7.30pm. You can contact the following course co-ordinators for enrolment and any queries.

SI No.	Name of Add-on Course	Sem	Duration in hours	Name of the course co-ordinators
1	Structural System Fundamentals	3 rd	40	Dr. J. Hussain
2	Fuels and Combustion	5 th	40	Dr. Krishna
3	Modern Fuels and Alternatives to IC Engines	7 th	40	Prof. Pusparanjan Swain

Principal

Principal

College of Engineering Bhubaneswar

Vice Chairman

Executive Director

Principal

All Notice Board.

A.O(Admin)

All HODs

Hostel, Security

PSW

HOD

Automobile Engineering Department

A. Bhuje

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF AUTOMOBILE ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ENROLLMENT SHEET

Programme: B Tech in AUTOMOBILE ENGINEERING Academic Year : 2018-19

Semester: 3rd Course Code (if any): Course Duration: 40 hours

Name of the Course: Structural System Fundamentals

I do hereby undertake to participate in the above mentioned add on course.

Sl No.	Reg. No.	Name of the Students	Signature
1	1701219028	RISHA MAJHI	Risha Majhi
2	1701219032	DASARATHA TUDU	Dasaratha tudu
3	1701219046	SOUMYARANJAN ROUDIA	Soumyaranjan Roudia
4	1701219050	YUBIN KUMAR MAREHI	Yubin Ku. Marehi
5	1701219053	GOKUL PRADHAN	Gokul Pradhan
6	1701219059	AMIT PAULEY	Amit pauley
7	1701219064	SOUMYA RANJAN	Soumya Ranjan
8	1701219075	RISHABH TRIPATHI	Rishabh tripathi
9	1701219077	K AMLAN PRIYADARSHAN	K. Adarghey
10	1701219078	SADANANDA SA	sadananda sa
11	1701219172	ABDUL TAJUDDIN	Abdul Tajuddin
12	1701219173	DEBENDRA KUMAR	Debendra Kumar
13	1701219174	DAMBURUDHAR BAG	Damburudhar Bag
14	1701219175	DEBASISH NAYAK	Debasish Nayak
15	1701219208	SMRUTI BIKASH RATH	S. B. Rath
16	1701219209	RAKESH SAMAL	Rakesh Samal
17	1701219210	SAMBIT DASH	Sambit Dash
18	1701219211	SANTOSH KUMAR BHUYAN	Santosh Kumar Bhuyan
19	1701219212	ARPITAUROJIT MOHANTY	Arpitaurojit Mohanty
20	1701219213	CHINMAY KUMAR BHOI	C. K. Bhoi
21	1701219214	HARIHARA MAHALIK	Hariharra Mahalik



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DEPARTMENT OF AUTOMOBILE ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ATTENDANCE SHEET

1

Programme: B Tech in AUTOMOBILE ENGINEERING

Semester: 3rd

Academic Year : 2018-19

Name of the Course: Structural System Fundamentals

Course Code (if any):

Sheet No:

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1701219028	RISHA MAJHI	17/12/18 ABC	18/12/18 Risha Majhi	19/12/18 Risha Majhi	20/12/18 Risha Majhi
2	1701219032	DASARATHA TUDU	Dasaratha Tudu Saumyaranjan Roudia	Dasaratha Tudu Saumyaranjan Roudia	Dasaratha Tudu ABC	Dasaratha Tudu Saumyaranjan Roudia
3	1701219046	SOUMYARANJAN ROUDIA	Yubin Mr. Marehi Gokul Pradhan	Yubin Mr. Marehi Gokul Pradhan	Yubin Mr. Marehi Gokul Pradhan	ABC
4	1701219050	YUBIN KUMAR MAREHI	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan
5	1701219053	GOKUL PRADHAN	Amrit Pawley	Amrit Pawley	Amrit Pawley	Amrit Pawley
6	1701219059	AMIT PAULEY	Saumya Ranjan Rishabh Tripathi	Saumya Ranjan Rishabh Tripathi	Saumya Ranjan Rishabh Tripathi	Saumya Ranjan Rishabh Tripathi
7	1701219064	SOUMYA RANJAN	R. Priyadarshan Sadananda Sa	R. Priyadarshan Sadananda Sa	R. Priyadarshan Sadananda Sa	R. Priyadarshan Sadananda Sa
8	1701219075	RISHABH TRIPATHI	Abdul Tajuddin ABC	Abdul Tajuddin Debenraj Kumar	Abdul Tajuddin Debenraj Kumar	Abdul Tajuddin Debenraj Kumar
9	1701219077	K AMLAN PRIYADARSHAN	Damburudhar Bag Debasish Nayak	Damburudhar Bag Debasish Nayak	Damburudhar Bag Debasish Nayak	Damburudhar Bag Debasish Nayak
10	1701219078	SADANANDA SA	S. B. Rats Rakesh Samal	S. B. Rats Rakesh Samal	S. B. Rats Rakesh Samal	S. B. Rats Rakesh Samal
11	1701219172	ABDUL TAJUDDIN	ABC	ABC	ABC	ABC
12	1701219173	DEBENDRA KUMAR	ABC	ABC	ABC	ABC
13	1701219174	DAMBURUDHAR BAG	ABC	ABC	ABC	ABC
14	1701219175	DEBASISH NAYAK	ABC	ABC	ABC	ABC
15	1701219208	SMRUTTI BIKASH RATH	ABC	ABC	ABC	ABC
16	1701219209	RAKESH SAMAL	ABC	ABC	ABC	ABC
17	1701219210	SAMBIT DASH	ABC	ABC	ABC	ABC
18	1701219211	SANTOSH KUMAR BHUVAN	ABC	ABC	ABC	ABC
19	1701219212	ARPITA ROJIT MOHANTY	ABC	ABC	ABC	ABC
20	1701219213	CHINMAY KUMAR BHOI	ABC	ABC	ABC	ABC
21	1701219214	HARIHARA MAHALIK	ABC	ABC	ABC	ABC

[Signature]

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF AUTOMOBILE ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ATTENDANCE SHEET

(2)

Programme: B Tech in AUTOMOBILE ENGINEERING

Semester: 3rd

Academic Year : 2018-19

Name of the Course: Structural System Fundamentals

Course Code (if any):

Sheet No:

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1701219028	RISHA MAJHI	23/07/18 Late mark	24/07/18 Late mark	25/07/18 Late mark	26/07/18 Late mark
2	1701219032	DASARATHA TUDU	Dasaratha Tudu	ABS	Dasaratha Tudu	Dasaratha Tudu
3	1701219046	SOUMYARANJAN ROUDIA	Soumyaranjan Roudia	Soumyaranjan Roudia	ABS	Soumyaranjan Roudia
4	1701219050	YUBIN KUMAR MAREHI	Yubin Mr. Marehi	Yubin Mr. Marehi	Yubin Mr. Marehi	Yubin Mr. Marehi
5	1701219053	GOKUL PRADHAN	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan
6	1701219059	AMIT PAULEY	Amit Pauley	Amit Pauley	Amit Pauley	Amit Pauley
7	1701219064	SOUMYA RANJAN	Soumya Ranjan	ABS	Soumya Ranjan	Soumya Ranjan
8	1701219075	RISHABH TRIPATHI	Rishabh Tripathi	Rishabh Tripathi	Rishabh Tripathi	ABS
9	1701219077	KAMLAN PRIYADARSHAN	ABS	K. Priyadarshan	K. Priyadarshan	K. Priyadarshan
10	1701219078	SADANANDA SA	Sadananda Sa	Sadananda Sa	Sadananda Sa	Sadananda Sa
11	1701219172	ABDUL TAJUDDIN	Abdul Tajuddin	Abdul Tajuddin	Abdul Tajuddin	Abdul Tajuddin
12	1701219173	DEBENDRA KUMAR	Debendra Kumar	Debendra Kumar	Debendra Kumar	Debendra Kumar
13	1701219174	DAMBURUDHAR BAG	Damburudhar Bag	ABS	Damburudhar Bag	Damburudhar Bag
14	1701219175	DEBASISH NAYAK	Debasish Nayak	Debasish Nayak	Debasish Nayak	Debasish Nayak
15	1701219208	SMRUTI BIKASH RATH	S. B. Rath	S. B. Rath	S. B. Rath	S. B. Rath
16	1701219209	RAKESH SAMAL	Rakesh Samal	Rakesh Samal	Rakesh Samal	Rakesh Samal
17	1701219210	SAMBIT DASH	Sambit Dash	Sambit Dash	Sambit Dash	Sambit Dash
18	1701219211	SANTOSH KUMAR BHUVAN	Santosh Kumar Bhuvan	Santosh Kumar Bhuvan	Santosh Kumar Bhuvan	Santosh Kumar Bhuvan
19	1701219212	ARPITA ROJIT MOHANTY	ABS	A. Mohanty	A. Mohanty	ABS
20	1701219213	CHINMAY KUMAR BHOI	C.K. Bhoi	C.K. Bhoi	C.K. Bhoi	C.K. Bhoi
21	1701219214	HARIHARA MAHALIK	Harihara Mahalik	Harihara Mahalik	Harihara Mahalik	Harihara Mahalik

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DEPARTMENT OF AUTOMOBILE ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ATTENDANCE SHEET

3

Programme: B Tech in AUTOMOBILE ENGINEERING

Semester: 3rd

Academic Year : 2018-19

Name of the Course: Structural System Fundamentals

Course Code (if any):

Sheet No:

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1701219028	RISHA MAJHI	30/7/18 Risha Majhi	31/7/18 Risha Majhi	3/8/18 ABS	6/8/18 Risha Majhi
2	1701219032	DASARATHA TUDU	Dasaratha Tudu Saumya Ranjan Panda	Dasaratha Tudu Saumya Ranjan Panda	Dasaratha Tudu Saumya Ranjan Panda	Dasaratha Tudu Saumya Ranjan Panda
3	1701219046	SOUMYARANJAN ROUDIA	ABS	Yubin Km. Mareki	Yubin Km. Mareki	Yubin Km. Mareki
4	1701219050	YUBIN KUMAR MAREHI	ABS	Yubin Km. Mareki	Yubin Km. Mareki	Yubin Km. Mareki
5	1701219053	GOKUL PRADHAN	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan
6	1701219059	AMIT PAULEY	Amit Pauley	Amit Pauley	Amit Pauley	Amit Pauley
7	1701219064	SOUMYA RANJAN	Saumya Ranjan	Saumya Ranjan	Saumya Ranjan	Saumya Ranjan
8	1701219075	RISHABH TRIPATHI	ABS	Rishabh Tripathi	Rishabh Tripathi	Rishabh Tripathi
9	1701219077	KAMLAN PRIYADARSHAN	K. Priyadarshan	K. Priyadarshan	K. Priyadarshan	K. Priyadarshan
10	1701219078	SADANANDA SA	Sadananda Sa	Sadananda Sa	Sadananda Sa	Sadananda Sa
11	1701219172	ABDUL TAJUDDIN	Abdul Tajuddin	Abdul Tajuddin	Abdul Tajuddin	Abdul Tajuddin
12	1701219173	DEBENDRA KUMAR	Debenendra Kumar	Debenendra Kumar	Debenendra Kumar	Debenendra Kumar
13	1701219174	DAMBURUDHAR BAG	Damburudhar Bag	Damburudhar Bag	Damburudhar Bag	Damburudhar Bag
14	1701219175	DEBASISH NAVAK	Debasish Nayak	Debasish Nayak	ABS	Debasish Nayak
15	1701219208	SMRUTI BIKASH RATH	S. B. Rath	S. B. Rath	S. B. Rath	S. B. Rath
16	1701219209	RAKESH SAMAL	Rakesh Samal	Rakesh Samal	Rakesh Samal	Rakesh Samal
17	1701219210	SAMBIT DASH	Sambit Dash	Sambit Dash	Sambit Dash	Sambit Dash
18	1701219211	SANTOSH KUMAR BHUVAN	Santosh Kumar Bhuvan	Santosh Kumar Bhuvan	Santosh Kumar Bhuvan	Santosh Kumar Bhuvan
19	1701219212	ARPITA ROJIT MOHANTY	A. Mohanty	A. Mohanty	A. Mohanty	A. Mohanty
20	1701219213	CHINMAY KUMAR BHOI	C. K. Bhoi	C. K. Bhoi	C. K. Bhoi	C. K. Bhoi
21	1701219214	HARISHARA MAHALIK	Harishara Mahalik	Harishara Mahalik	Harishara Mahalik	Harishara Mahalik

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DEPARTMENT OF AUTOMOBILE ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ATTENDANCE SHEET

4

Programme: B Tech in AUTOMOBILE ENGINEERING

Semester: 3rd

Academic Year : 2018-19

Name of the Course: Structural System Fundamentals

Course Code (if any):

Sheet No:

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1701219028	RISHA MAJHI	7/8/18 ABS	8/8/18 Pisha Maje	9/8/18 Pisha Maje	10/8/18 Pisha Maje
2	1701219032	DASARATHA TUDU	Dasenathu Tudu Sourmyaranjan Rout	Dasenathu Tudu Sourmyaranjan Rout	Dasenathu Tudu Sourmyaranjan Rout	Dasenathu Tudu Sourmyaranjan Rout
3	1701219046	SOURMYARANJAN ROUDIA	Yubin Mr. Maseki	Yubin Mr. Maseki	Yubin Mr. Maseki	Yubin Mr. Maseki
4	1701219050	YUBIN KUMAR MAREHI	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan
5	1701219053	GOKUL PRADHAN	Amrit Pauley	Amrit Pauley	Amrit Pauley	Amrit Pauley
6	1701219059	AMIT PAULEY	Sourmya Ranjan Pishakh tripartti	Sourmya Ranjan Pishakh tripartti	Sourmya Ranjan Pishakh tripartti	Sourmya Ranjan Pishakh tripartti
7	1701219064	SOURMYA RANJAN	AB	K.Priyadarsan	K.Priyadarsan	K.Priyadarsan
8	1701219075	RISHABH TRIPATHI	Abdul Tajuddin	Abdul Tajuddin	Abdul Tajuddin	Abdul Tajuddin
9	1701219077	KAMLAN PRIYADARSHAN	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
10	1701219078	SADANANDA SA	Damburudhar Bag	Damburudhar Bag	Damburudhar Bag	Damburudhar Bag
11	1701219172	ABDUL TAJUDDIN	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
12	1701219173	DEBENDRA KUMAR	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
13	1701219174	DAMBURUDHAR BAG	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
14	1701219175	DEBASISH NAYAK	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
15	1701219208	SMRUTI BIKASH RATH	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
16	1701219209	RAKESH SAMAL	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
17	1701219210	SAMBIT DASH	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
18	1701219211	SANTOSH KUMAR BHUVAN	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
19	1701219212	ARPITA ROJIT MOHANTY	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
20	1701219213	CHINMAY KUMAR BHOI	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar
21	1701219214	HARIHARA MAHALIK	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar	Debenbra Kumar

Principal Signature

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF AUTOMOBILE ENGINEERING
ADD ON/CERTIFICATE COURSE
STUDENT ATTENDANCE SHEET

5

Programme: B Tech in AUTOMOBILE ENGINEERING

Semester: 3rd

Academic Year : 2018-19

Name of the Course: Structural System Fundamentals

Course Code (if any):

Sheet No:

Sl No.	Reg. No.	Name of the Students	Date	Date	Date	Date
1	1701219028	RISHA MAJHI	17/8/18 Rishi Majhi	20/8/18 Rishi Majhi	21/8/18 Rishi Majhi	23/8/18 Rishi Majhi
2	1701219032	DASARATHA TUDU	Dasaratha Tudu Soumya Ranjan Panda	Dasaratha Tudu ABS	Dasaratha Tudu Soumya Ranjan Panda	Dasaratha Tudu Soumya Ranjan Panda
3	1701219046	SOUMYARANJAN ROUDIA	Soumya Ranjan Roudia	ABS	Soumya Ranjan Roudia	Soumya Ranjan Roudia
4	1701219050	YUBIN KUMAR MAREHI	Yubin Ku. Marehi	Yubin Ku. Marehi	Yubin Ku. Marehi	Yubin Ku. Marehi
5	1701219053	GOKUL PRADHAN	Gokul Pradhan	Gokul Pradhan	Gokul Pradhan	ABS
6	1701219059	AMIT PAULEY	Amit Pauley	Amit Pauley	Amit Pauley	Amit Pauley
7	1701219064	SOUMYA RANJAN	Soumya Ranjan	Soumya Ranjan	Soumya Ranjan	Soumya Ranjan
8	1701219075	RISHABH TRIPATHI	Rishabh Tripathi ABS	Rishabh Tripathi	Rishabh Tripathi	Rishabh Tripathi
9	1701219077	KANMLAN PRIYADARSHAN	K. Priyadarshan Sadehunda Sa	K. Priyadarshan Sadehunda Sa	K. Priyadarshan Sadehunda Sa	K. Priyadarshan Sadehunda Sa
10	1701219078	SADANANDA SA	Sadehunda Sa	Sadehunda Sa	Sadehunda Sa	Sadehunda Sa
11	1701219172	ABDUL TAJUDDIN	Abdul Tajuddin	Abdul Tajuddin	Abdul Tajuddin	Abdul Tajuddin
12	1701219173	DEBENDRA KUMAR	Debenbra Kumar Damburudhar Bag	Debenbra Kumar Damburudhar Bag	Debenbra Kumar Damburudhar Bag	ABS
13	1701219174	DAMBUURUDHAR BAG	Damburudhar Bag	Damburudhar Bag	Damburudhar Bag	Damburudhar Bag
14	1701219175	DEBASISH NAYAK	Debasish Nayak	Debasish Nayak	Debasish Nayak	Debasish Nayak
15	1701219208	SMRUTI BIKASH RATH	S. B. Rath	S. B. Rath	S. B. Rath	S. B. Rath
16	1701219209	RAKESH SAMAL	Rakesh Samal	Rakesh Samal	Rakesh Samal	Rakesh Samal
17	1701219210	SAMBIT DASH	Sambit Dash	Sambit Dash	Sambit Dash	Sambit Dash
18	1701219211	SANTOSH KUMAR BHUYAN	Santosh Ku Bhuyan	ABS	Santosh Ku Bhuyan	Santosh Ku Bhuyan
19	1701219212	ARPITA UROJIT MOHANTY	A. Mohanty	A. Mohanty	A. Mohanty	A. Mohanty
20	1701219213	CHINMAY KUMAR BHOI	Chinmay Bhoi ABS	Chinmay Bhoi	Chinmay Bhoi	Chinmay Bhoi
21	1701219214	HARIHARA MAHALIK	Harihara Mahalik	Harihara Mahalik	Harihara Mahalik	Harihara Mahalik

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COLLEGE OF ENGINEERING BHUBANESWAR
PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. RISHA MAJHI, st _____ the Department

of Automobile Engg. semester Third bearing registration number 1701219028

has successfully completed the ADD-ON Course titled Structural System Fundamentals

conducted at College of Engineering Bhubaneswar in the academic year 2018-19

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Course-Coordinator

Principal

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COLLEGE OF ENGINEERING BHUBANESWAR
 PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. DASARATHA TUDU, student of the Department

of Automobile Engg. semester Third bearing registration number 1701219032

has successfully completed the ADD-ON Course titled Structural System Fundamentals

conducted at College of Engineering Bhubaneswar in the academic year 2018-19.

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[Signature]

Course-Coordinator

[Signature]

Principal

[Signature]

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 College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR
 PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024





Certificate of Completion

This is to certify that Mr./Ms. SOUMYARANJAN ROUDIA, student of the Department
 of Automobile Engg. semester Third bearing registration number 1701219046
 has successfully completed the ADD-ON Course titled Structural System Fundamentals
 conducted at College of Engineering Bhubaneswar in the academic year 2018-19.

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 Course-Coordinator


 Principal


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PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. YUBIN KUMAR MAREHI, student of the Department

of Automobile Engg. semester Third bearing registration number 1701219050

has successfully completed the ADD-ON Course titled Structural System Fundamentals

conducted at College of Engineering Bhubaneswar in the academic year 2018-19.

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Course-Coordinator

Principal

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PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion


This is to certify that Mr./Ms. GOKUL PRADHAN, student of the Department


of Automobile Engg. semester Third bearing registration number 1701219053

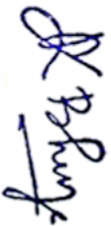
has successfully completed the ADD-ON Course titled Structural System Fundamentals

conducted at College of Engineering Bhubaneswar in the academic year 2018-19.

TRUE COPY


Course-Coordinator


Principal


PRINCIPAL
College of Engineering Bhubaneswar