



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209, INDIA

PROVISIONAL CERTIFICATE

This is to certify that **MD SAMIUL FAHAD**

Roll No. **16EC8093**

Registration No. **16U10706**

has completed the 4 Year Degree Course in **BACHELOR OF TECHNOLOGY**

programme in **ELECTRONICS AND COMMUNICATION ENGINEERING** with **Second Class**

in the Academic Year **2019-2020**.

P20040093

Date : - 01.08.2020

Durgapur

Dean (Academic)



राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गापुर
NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR
 Mahatma Gandhi Avenue, Durgapur - 713209, INDIA
TRANSCRIPT

Date : September 02, 2020

NAME : MD SAMIUL FAHAD			INSTITUTE ROLL NO. : 16EC8093		
BRANCH : ELECTRONICS AND COMMUNICATION ENGINEERING			INSTITUTE REGISTRATION NO. : 16U10706		
Course of study : 4 YEAR (8 - SEMESTER) B.Tech. Programme					
FIRST SEMESTER		SECOND SEMESTER		THIRD SEMESTER	
2017-2018		2017-2018		2017-2018	
SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE
CY01	3	P	CS01	3	P
EM01	3	P	CS51	2	B
ES01	2	D	EA52	1	B
HS01	3	D	EC01	3	P
MA01	3	D	EC51	1	A
PH01	3	P	EE01	3	C
CY51	1	B	EE51	1	B
EA51	1	B	EM51	2	D
EG51	3	C	HS02	3	P
PH51	1	B	MA02	4	P
WS51	2	A	WS52	2	A
TGP = 156.0	SGPA = 6.24		TGP = 157.0	SGPA = 6.28	
CGPA = 6.24			CGPA = 6.26		
FIFTH SEMESTER			SIXTH SEMESTER		
2019-2020			2019-2020		
SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE
CH540	3	P	EC601	3	P
EC501	4	D	EC602	4	C
EC502	3	D	EC603	3	P
EC503	3	P	EC604	3	P
EC504	3	P	MS631	3	P
EC551	2	A	EC651	2	A
EC552	2	B	EC652	2	C
EC553	2	A	HS681	2	A
TGP = 139.0	SGPA = 6.32		TGP = 138.0	SGPA = 6.27	
CGPA = 6.12			CGPA = 6.14		
SEVENTH SEMESTER			EIGHTH SEMESTER		
2019-2020			2019-2020		
SUBJECT CODE	CREDIT UNIT	GRADE	SUBJECT CODE	CREDIT UNIT	GRADE
EC701	3	C	EC810	3	C
EC702	4	P	EC812	3	B
EC724	3	P	EE841	3	C
EC725	3	P	EC851	2	A
EC751	2	B	EC852	2	A
EC752	2	B	EC853	1	B
EC753	1	B	EC854	6	A
EC754	3	B	EC855	2	B
EC755	1	A			
TGP = 144	SGPA = 6.55		TGP = 180	SGPA = 8.18	
CGPA = 6.20			CGPA = 6.44		

TGP = Total Grade Point ; SGPA = Semester Grade Point Average ; CGPA = Cumulative Grade Point Average

(See reverse for the explanation of the Grading and Evaluation system)

SESSION OF COMPLETION OF THE COURSE : 2019-2020

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2/9/2020*

S. Biswas
Checked by

Dean (Academic)

Dean (Academic)

National Institute of Technology,
Durgapur - 713209, India

7 - SCALE GRADE SYSTEM
(Full Marks of Theory/ Sessional /Laboratory Course = 100)

Range of marks scored	Performance	Grade awarded	Grade point per credit unit	Remarks
90 and above	Excellent	Ex	10	
Between 80 & 89	Very good	A	9	
Between 70 & 79	Good	B	8	
Between 60 & 69	Fair	C	7	
Between 50 & 59	Average	D	6	
Between 40 & 49	Pass	P	5	
Below 40	Fail	F	0	

S - Satisfactory

U - Unsatisfactory

Grade point per course = Credit unit of the course x Corresponding Grade point per credit unit.

TGP = Summation of Grade points earned in all courses in the semester.

SGPA = TGP/Total credit unit of the semester.

CGPA = Cumulative Grade Point/ Cumulative credit unit of all the courses up to the current semester.

MAXIMUM POSSIBLE SGPA' AND 'CGPA' IS 10.00

The students awarded 'F' in particular course(s) are eligible for the supplementary backlog examination in that / those course(s). The TGP, SGPA, and CGPA shown in that case is tentative and the amended TGP, SGPA, and CGPA in supplementary examination are indicated in Supplementary Grade Card.

Classes awarded based on the final CGPA:

Distinction : CGPA \geq 8.00, provide all the courses passed in regular examinations.

First Class : CGPA \geq 6.50

Second Class : CGPA $<$ 6.50

No distinction is awarded in Post Graduate Programmes.

Equivalent percent marks:

For Semester Examination : Equivalent % marks = (SGPA — 0.5) x 10

For Final CGPA : Over all equivalent % marks = (CGPA — 0.5) x 10

Medium of Instruction and evaluation is English.

1st Semester

S/L no.	Subject Code	Subject Name
1	CY01	ENGINEERING CHEMISTRY
2	EM01	ENGINEERING MECHANICS
3	ES01	ENVIRONMENTAL STUDIES
4	HS01	ENGLISH
5	MA01	MATHEMATICS - I
6	PH01	ENGINEERING PHYSICS
7	CY51	CHEMISTRY LABORATORY
8	EA51	CO-CURRICULAR ACTIVITIES
9	EG51	ENGINEERING GRAPHICS
10	PH51	PHYSICS LABORATORY
11	WS51	WORKSHOP PRACTICE - I

2nd Semester

S/L no.	Subject Code	Subject Name
1	CS01	INTRODUCTION TO COMPUTING
2	EC01	BASIC ELECTRONICS
3	EE01	ELECTRICAL TECHNOLOGY
4	HS02	ENGINEERING ECONOMICS & ACCOUNTANCY
5	MA02	MATHEMATICS- II
6	CS51	COMPUTING LABORATORY
7	EA52	CO-CURRICULAR ACTIVITIES
8	EC51	BASIC ELECTRONICS LABORATORY
9	EE51	ELECTRICAL TECHNOLOGY LABORATORY
10	EM51	GRAPHICAL ANALYSIS USING CAD - SESSIONAL
11	WS52	WORKSHOP PRACTICE- II

3rd Semester

S/L no.	Subject Code	Subject Name
1	CS331	PROGRAMMING & DATA STRUCTURES
2	EC301	ANALOG CIRCUITS
3	EC302	SIGNALS & SYSTEMS
4	MA331	MATHEMATICS- III
5	PH332	PHYSICS OF SEMICONDUCTOR DEVICES
6	CS381	PROGRAMMING & DATA STRUCTURES LABORATORY
7	EC351	ANALOG CIRCUITS LABORATORY
8	PH382	SEMICONDUCTOR DEVICES LABORATORY

4th Semester

S/L no.	Subject Code	Subject Name
1	EC401	DIGITAL ELECTRONICS
2	EC402	ANALOG COMMUNICATION
3	EC403	ENGINEERING ELECTROMAGNETICS
4	EC404	NETWORK ANALYSIS & SYNTHESIS
5	EE431	CENTRAL SYSTEMS ENGINEERING
6	EC451	DIGITAL ELECTRONICS LABORATORY
7	EC452	ANALOG COMMUNICATION LABORATORY
8	EE481	CONTROL SYSTEMS LABORATORY



5th Semester

S/L no.	Subject Code	Subject Name
1	CH540	FUEL & COMBUSTION
2	EC501	DIGITAL COMMUNICATION
3	EC502	INTRODUCTION TO VLSI
4	EC503	DIGITAL SIGNAL PROCESSING
5	EC504	COMPUTER ARCHITECTURE & ORGANIZATION
6	EC551	DIGITAL COMMUNICATION LABORATORY
7	EC552	COMPUTER ORGANIZATION AND VLSI LABORATORY
8	EC553	DIGITAL SIGNAL PROCESSING LABORATORY

6th Semester

S/L no.	Subject Code	Subject Name
1	EC601	TRANSMISSION LINES
2	EC602	MICROPROCESSOR AND MICROCONTROLLER APPLICATIONS
3	EC603	POWER ELECTRONICS
4	EC604	MEASUREMENT AND INSTRUMENTATION
5	MS631	PRINCIPLES OF MANAGEMENT
6	EC651	POWER ELECTRONICS INSTRUMENTATION LABORATORY
7	EC652	MICROPROCESSOR AND MICROCONTROLLER LABORATORY
8	HS681	PROFESSIONAL COMMUNICATION

7th Semester

S/L no.	Subject Code	Subject Name
1	EC701	MICROWAVE ENGINEERING
2	EC702	ANTENNA AND PROPAGATION
3	EC724	ANALOG VLSI DESIGN
4	EC725	DIGITAL VLSI DESIGN
5	EC751	ELECTRONICS CIRCUIT DESIGN LABORATORY - I
6	EC752	MICROWAVE AND ANTENNA ENGINEERING LABORATORY
7	EC753	SEMINAR - I
8	EC754	PROJECT WORK - I
9	EC755	VOCATIONAL TRAINING / SUMMER INTERNSHIP

8th Semester

S/L no.	Subject Code	Subject Name
1	EC810	WIRELESS COMMUNICATION
2	EC812	RADAR ENGINEERING
3	EE841	ELECTRICAL DRIVES
4	EC851	ELECTRONICS CIRCUIT DESIGN LABORATORY- II
5	EC852	SIMULATION LABORATORY
6	EC853	SEMINAR - II
7	EC854	PROJECT WORK - II
8	EC855	VIVA VOCE

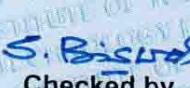
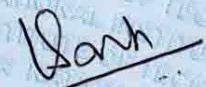




NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209, INDIA

GRADE CARD

Examination : B.TECH (BACKLOG)		Semester : FIRST	Session : 2017-2018	
Name : MD SAMIUL FAHAD		Roll No. : 16B80089		
Branch : COMMON		Reg No. : 16U10706		
Course Code	Course Name	Credit Unit	Grade	Grade Point
CY01	ENGINEERING CHEMISTRY	3.0	P	15.0
EM01	ENGINEERING MECHANICS	3.0	P	15.0
ES01	ENVIRONMENTAL STUDIES	2.0	D	12.0
HS01	ENGLISH	3.0	D	18.0
MA01	MATHEMATICS - I	3.0	D	18.0
PH01	ENGINEERING PHYSICS	3.0	P	15.0
CY51	CHEMISTRY LABORATORY	1.0	B	8.0
EA51	CO-CURRICULAR ACTIVITIES	1.0	B	8.0
EG51	ENGINEERING GRAPHICS	3.0	C	21.0
PH51	PHYSICS LABORATORY	1.0	B	8.0
WS51	WORKSHOP PRACTICE - I	2.0	A	18.0
Total Grade Point (TGP) :		156.0	Remarks	
Semester Grade Point Average (SGPA) :		6.24	PASSED	
Cumulative Grade Point Average (CGPA) :		6.24		
BU/BO/17/2109		 Checked by	 Dean (Academic)	
Date : 13.02.2018				



NATIONAL INSTITUTE OF TECHNOLOGY

DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

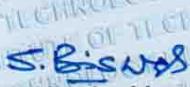
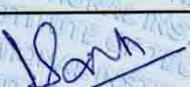
Examination : B.TECH (SUPPLEMENTARY)		Semester : SECOND	Session : 2017-2018	
Name : MD SAMIUL FAHAD		Roll No. : 16B80089		
Branch : COMMON		Reg No. : 16U10706		
Course Code	Course Name	Credit Unit	Grade	Grade Point
CS01	INTRODUCTION TO COMPUTING	3.0	P	15.0
EC01	BASIC ELECTRONICS	3.0	P	15.0
EE01	ELECTRICAL TECHNOLOGY	3.0	C	21.0
HS02	ENGINEERING ECONOMICS & ACCOUNTANCY	3.0	P	15.0
MA02	MATHEMATICS - II	4.0	P	20.0
CS51	COMPUTING LABORATORY	2.0	B	16.0
EA52	CO-CURRICULAR ACTIVITIES	1.0	B	8.0
EC51	BASIC ELECTRONICS LABORATORY	1.0	A	9.0
EE51	ELECTRICAL TECHNOLOGY LABORATORY	1.0	B	8.0
EM51	GRAPHICAL ANALYSIS USING CAD - SESSIONAL	2.0	D	12.0
WS52	WORKSHOP PRACTICE - II	2.0	A	18.0
Total Grade Point (TGP) :		157.0	Remarks	
Semester Grade Point Average (SGPA) :		6.28	PASSED	
Cumulative Grade Point Average (CGPA) :		6.26		
BU/SE/17/3369		S. Biswas Checked by	Dear Academic 	
Date : 13.02.2018				



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209, INDIA

GRADE CARD

Examination : B.TECH (SUPPLEMENTARY)	Semester : THIRD	Session : 2017-2018				
Name : MD SAMIUL FAHAD		Roll No. : 16EC8093				
Branch : ELECTRONICS & COMMUNICATION ENGINEERING		Reg No. : 16U10706				
Course Code	Course Name	Credit Unit	Grade	Grade Point		
CS331	PROGRAMMING & DATA STRUCTURES	3	P	15		
EC301	ANALOG CIRCUITS	4	C	28		
EC302	SIGNALS & SYSTEMS	3	P	15		
MA331	MATHEMATICS - III	3	P	15		
PH332	PHYSICS OF SEMICONDUCTOR DEVICES	3	C	21		
CS381	PROGRAMMING & DATA STRUCTURES LABORATORY	2	D	12		
EC351	ANALOG CIRCUITS LABORATORY	2	B	16		
PH382	SEMICONDUCTOR DEVICES LABORATORY	2	D	12		
Total Grade Point (TGP) :		134	Remarks			
Semester Grade Point Average (SGPA) :		6.09	PASSED			
Cumulative Grade Point Average (CGPA) :		6.21				
BU/SO/17/3410		 Checked by  Dean (Academic)				
Date : 13.02.2018						

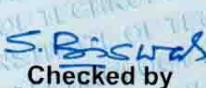
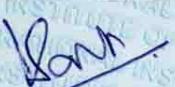


NATIONAL INSTITUTE OF TECHNOLOGY

DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

Examination : B.TECH (BACKLOG)		Semester : FOURTH	Session : 2019-2020	
Name : MD SAMIUL FAHAD		Roll No. : 16EC8093		
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING		Reg No. : 16U10706		
Course Code	Course Name	Credit Unit	Grade	Grade Point
EC401	DIGITAL ELECTRONICS	3.0	P	15.0
EC402	ANALOG COMMUNICATION	4.0	P	20.0
EC403	ENGINEERING ELECTROMAGNETICS	3.0	P	15.0
EC404	NETWORK ANALYSIS AND SYNTHESIS	3.0	P	15.0
EE431	CONTROL SYSTEMS ENGINEERING	3.0	P	15.0
EC451	DIGITAL ELECTRONICS LABORATORY	2.0	B	16.0
EC452	ANALOG COMMUNICATION LABORATORY	2.0	C	14.0
EE481	CONTROL SYSTEMS LABORATORY	2.0	C	14.0
Total Grade Point (TGP) :		124.0	Remarks	
Semester Grade Point Average (SGPA) :		5.64	PASSED	
Cumulative Grade Point Average (CGPA) :		6.07		
BU/BE/19/1811			 Checked by	
Date : 01.08.2020			 Dean (Academic)	

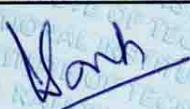


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DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

Examination : B.TECH (SUPPLEMENTARY)		Semester : FIFTH	Session : 2019-2020	
Name : MD SAMIUL FAHAD			Roll No. : 16EC8093	
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING			Reg No. : 16U10706	
Course Code	Course Name	Credit Unit	Grade	Grade Point
CH540	FUELS & COMBUSTION	3.0	P	15.0
EC501	DIGITAL COMMUNICATION	4.0	D	24.0
EC502	INTRODUCTION TO VLSI	3.0	D	18.0
EC503	DIGITAL SIGNAL PROCESSING	3.0	P	15.0
EC504	COMPUTER ARCHITECTURE & ORGANIZATION	3.0	P	15.0
EC551	DIGITAL COMMUNICATION LABORATORY	2.0	A	18.0
EC552	COMPUTER ORGANIZATION AND VLSI LABORATORY	2.0	B	16.0
EC553	DIGITAL SIGNAL PROCESSING LABORATORY	2.0	A	18.0
Total Grade Point (TGP) :		139.0	Remarks	
Semester Grade Point Average (SGPA) :		6.32	PASSED	
Cumulative Grade Point Average (CGPA) :		6.12		
BU/SO/19/3415		 Checked by  Date : 01.08.2020		



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

Examination : B.TECH (SUPPLEMENTARY)	Semester : SIXTH	Session : 2019-2020		
Name : MD SAMIUL FAHAD	Roll No. : 16EC8093			
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING	Reg No. : 16U10706			
Course Code	Course Name	Credit Unit	Grade	Grade Point
EC601	TRANSMISSION LINES	3.0	P	15.0
EC602	MICROPROCESSOR AND MICROCONTROLLER APPLICATIONS	4.0	C	28.0
EC603	POWER ELECTRONICS	3.0	P	15.0
EC604	MEASUREMENT AND INSTRUMENTATION	3.0	P	15.0
MS631	PRINCIPLES OF MANAGEMENT	3.0	P	15.0
EC651	POWER ELECTRONICS AND INSTRUMENTATION LABORATORY	2.0	A	18.0
EC652	MICROPROCESSOR AND MICROCONTROLLER LABORATORY	2.0	C	14.0
HS681	PROFESSIONAL COMMUNICATION	2.0	A	18.0
Total Grade Point (TGP) :	138.0	Remarks		
Semester Grade Point Average (SGPA) :	6.27	PASSED		
Cumulative Grade Point Average (CGPA) :	6.14			
BU/SE/19/2455	S. P. S. A. S.	Checked by		
Date : 01.08.2020		Dean (Academic)		



NATIONAL INSTITUTE OF TECHNOLOGY

DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

Examination : B.TECH (SUPPLEMENTARY)	Semester : SEVENTH	Session : 2019-2020		
Name : MD SAMIUL FAHAD		Roll No. : 16EC8093		
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING		Reg No. : 16U10706		
Course Code Course Name Credit Unit Grade Grade Point				
EC701	MICROWAVE ENGINEERING	3	C	21
EC702	ANTENNA AND PROPAGATION	4	P	20
EC724	ANALOG VLSI DESIGN	3	P	15
EC725	DIGITAL VLSI DESIGN	3	P	15
EC751	ELECTRONICS CIRCUIT DESIGN LABORATORY - I	2	B	16
EC752	MICROWAVE AND ANTENNA ENGINEERING LABORATORY	2	B	16
EC753	SEMINAR - I	1	B	8
EC754	PROJECT WORK - I	3	B	24
EC755	VOCATIONAL TRAINING / SUMMER INTERNSHIP	1	A	9
Total Grade Point (TGP) :	144	Remarks		
Semester Grade Point Average (SGPA) :	6.55	PASSED		
Cumulative Grade Point Average (CGPA) :	6.20			
BU/NO/19/3416				
Date : 01.08.2020	<i>S. Roy</i> Checked by	Dean (Academic)		

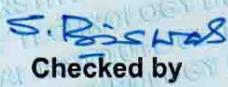


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DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713 209,
WEST BENGAL, INDIA

GRADE CARD

Examination : B.TECH (REGULAR)		Semester : EIGHTH	Session : 2019-2020	
Name : MD SAMIUL FAHAD		Roll No. : 16EC8093		
Branch : ELECTRONICS AND COMMUNICATION ENGINEERING		Reg No. : 16U10706		
Course Code	Course Name	Credit Unit	Grade	Grade Point
EC810	WIRELESS COMMUNICATION	3	C	21
EC812	RADAR ENGINEERING	3	B	24
EE841	ELECTRICAL DRIVES	3	C	21
EC851	ELECTRONICS CIRCUIT DESIGN LABORATORY - II	2	A	18
EC852	SIMULATION LABORATORY	2	A	18
EC853	SEMINAR - II	1	B	8
EC854	PROJECT WORK - II	6	A	54
EC855	VIVA VOCE	2	B	16
Total Grade Point (TGP) :		180	Remarks	
Semester Grade Point Average (SGPA) :		8.18	PASSED and COURSE COMPLETED	
Cumulative Grade Point Average (CGPA) :		6.44	Second Class	
				Total Program Credit Unit = 182
BU/RE/19/0398/1				
Date : 01.08.2020				
 Checked by S. Biswas Dean (Academic)				