To Whom It May Concern:

This is to certify that the institute was formerly known as Regional Engineering College , Rourkela and was declared as National Institute of Technology. Rourkela with deemed to be University status with effect from 26.06.2002 by the Ministry of Human Resource Development, Government of India New Delhi. The medium of instruction in this institute is English since inception

The transcripts attached herewith are authenticated Photocopies of original and issued by the Institute. There is no provision in this Institute to issue copies of transcripts to anybody other than the students. Hence the attested photocopies of transcripts can be considered as official.

18-10-16

Asst. Registrar (Academic)
Assistant Registrar
(Academic)
National Institute of Technology
Rourkela-769008 (Odisha)

NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA
GRADE CARD
BACHELOR OF TECHNOLOGY

Name : **SUBHANKAR GHOSH**
Roll No. : **111CS0463**

Branch : **COMPUTER SCIENCE AND ENGINEERING**
Joined : **AY 2011-12**　　Graduated : **AY 2014-15**

1st Semester

Subject Code	Subject Name	L-T-P	Credits	Grade
CE100	Engineering Mechanics	3-1-0	4	Ex
CY101	Chemistry	3-1-0	4	Ex
EE100	Basic Electrical Engineering	3-1-0	4	Ex
MA101	Mathematics - I	3-1-0	4	B
PH101	Physics I	3-1-0	4	Ex
CE171	Engineering Drawing	0-0-3	2	A
CS171	Computing Laboratory - I	0-0-3	2	A
PH170	Physics Laboratory	0-0-3	2	A
WS171	Workshop Practice I	0-0-3	2	A
EA171	NCC-I	0-0-3	2	B

Semester Credits :	30	Semester Grade Point Average (SGPA) :	9.33
Total Credits :	30	Cummulative Grade Point Average (CGPA) :	9.33

2nd Semester

Subject Code	Subject Name	L-T-P	Credits	Grade
CE130	Environment and Safety Engineering	3-1-0	4	B
CS102	Data Structures and Algorithm	3-1-0	4	A
EC100	Basic Electronics Engineering	3-1-0	4	Ex
MA102	Mathematics - II	3-1-0	4	A
PH102	Physics II	3-1-0	4	A
CS172	Computing Laboratory - II	0-0-3	2	B
CY170	Chemistry Laboratory	0-0-3	2	A
ME170	Machine Drawing and Solid Modeling	0-0-3	2	B
WS172	Workshop Practice II	0-0-3	2	Ex
EA172	NCC-II	0-0-3	2	A

Semester Credits :	30	Semester Grade Point Average (SGPA) :	8.93
Total Credits :	60	Cummulative Grade Point Average (CGPA) :	9.13

3rd Semester

Subject Code	Subject Name	L-T-P	Credits	Grade
CS211	Discrete Mathematics	3-1-0	4	A
MA201	Mathematics - III	3-1-0	4	A
CS241	Analog Electronics	3-0-0	3	A
CS243	Digital Electronics	3-0-0	3	Ex
HS428	Psychometrics	3-0-0	3	B
CS271	Data Structure Laboratory	0-0-3	2	A
CS273	Digital Electronics Laboratory	0-0-3	2	Ex
EC270	Basic Electronics Laboratory	0-0-3	2	A
MA270	Numerical Methods Laboratory	0-0-3	2	A

Semester Credits :	25	Semester Grade Point Average (SGPA) :	9.08
Total Credits :	85	Cummulative Grade Point Average (CGPA) :	9.12

4th Semester

Subject Code	Subject Name	L-T-P	Credits	Grade
CS242	Computer Organization and Architecture	3-1-0	4	A
MA202	Mathematics - IV	3-1-0	4	Ex
CS222	Database Management Systems	3-0-0	3	C
CS335	Computer Graphics and Multimedia	3-0-0	3	C
CY232	Chemical Kinetics	3-0-0	3	Ex
CS272	Database Laboratory	0-0-3	2	B
CS274	VHDL Programming Laboratory	0-0-3	2	Ex
EE270	Electrical Engineering Laboratory-I	0-0-3	2	A
HS270	Language Laboratory	0-0-3	2	A

Semester Credits :	25	Semester Grade Point Average (SGPA) :	8.80
Total Credits :	110	Cummulative Grade Point Average (CGPA) :	9.05

True Copy Attested

18-10-16

Asst. Registrar (Acad.)
NIT, Rourkela-8, India

Name:	SUBHANKAR GHOSH		Branch:	COMPUTER SCIENCE AND ENGINEERING
Roll No.:	111CS0463		Joined: AY 2011-12	Graduated: AY 2014-15

5th Semester

Subject Code	Subject Name	L-T-P	Credits	Grade
CS331	Theory of Computation	3-1-0	4	B
CS338	Systems Software	3-1-0	4	B
CS341	Microprocessors and Microcontrollers	3-1-0	4	A
CS321	Data Communication	3-0-0	3	Ex
ME417	Control System Engineering	3-0-0	3	Ex
CS371	Data Communication Laboratory	0-0-3	2	B
CS373	Microprocessor Laboratory	0-0-3	2	Ex
CS378	Systems Programming Laboratory	0-0-3	2	A
CS479	Advanced Linux Programming Laboratory	0-0-3	2	A

Semester Credits:	26	Semester Grade Point Average (SGPA):	8.92
Total Credits:	136	Cummulative Grade Point Average (CGPA):	9.02

6th Semester

Subject Code	Subject Name	L-T-P	Credits	Grade
CS332	Algorithm Analysis and Design	3-1-0	4	B
CS336	Digital Signal Processing	3-1-0	4	Ex
CS312	Systems Analysis and Design	3-0-0	3	A
CS334	Operating Systems Design	3-0-0	3	A
ME436	Entrepreneurship	3-0-0	3	A
CS372	Systems Analysis and Design Laboratory	0-0-3	2	A
CS374	Operating Systems Laboratory	0-0-3	2	Ex
CS376	Digital Signal Processing Laboratory	0-0-3	2	Ex
CS384	Algorithm Analysis and Design Laboratory	0-0-3	2	Ex

Semester Credits:	25	Semester Grade Point Average (SGPA):	9.24
Total Credits:	161	Cummulative Grade Point Average (CGPA):	9.06

7th Semester

Subject Code	Subject Name	L-T-P	Credits	Grade
CS315	Optimization Techniques	3-0-0	3	A
CS421	Computer Networks	3-0-0	3	A
CS625	Data Warehousing and Mining	3-0-0	3	B
HS442	Money, Banking and Finance	3-0-0	3	EX
CS471	Computer Network Laboratory	0-0-3	2	EX
CS670	Data Mining Laboratory	0-0-3	2	EX
CS700	Optimization Techniques Laboratory	0-0-3	2	B
CS491	Research Project – I	0-0-0	4	A
CS495	Short Term Industrial/Research Experience	0-0-0	2	B
CS493	Seminar and Technical Writing – I	0-0-0	2	A

Semester Credits:	26	Semester Grade Point Average (SGPA):	9.00
Total Credits:	187	Cummulative Grade Point Average (CGPA):	9.05

8th Semester

Subject Code	Subject Name	L-T-P	Credits	Grade
CS492	Research Project – II	0-0-0	6	A
CS412	Software Engineering	3-0-0	3	C
CS451	Compiler Design	3-0-0	3	EX
CS437	Soft Computing	3-0-0	3	B
HS317	Structure of Modern English	3-0-0	3	B
CS472	Software Engineering Laboratory	0-0-3	2	B
CS477	Soft Computing Laboratory	0-0-3	2	D
CS481	Compiler Design Laboratory	0-0-3	2	EX
CS494	Seminar and Technical Writing – II	0-0-0	2	A
CS496	Comprehensive Viva – Voce	0-0-0	2	C

Semester Credits:	28	Semester Grade Point Average (SGPA):	8.32
Total Credits:	215	Cummulative Grade Point Average (CGPA):	8.95

REMARKS:

Performance	Grade	Grade Point	Performance	Grade	Grade Point	Performance	Grade	Grade Point
Excellent	Ex	10	Fair	C	7	Fail	F	2
Very Good	A	9	Average	D	6	Incomplete Assesment	I	-
Good	B	8	Pass	P	5	Debarred	X	-

Date : 28 May 2015

COMPARED BY

True Copy Attested

Asst. Registrar (Acad.)
NIT, Rourkela-8, India

ASSISTANT REGISTRAR (ACADEMIC)
Asst. Registrar
(ACADEMIC)
National Institute of Technology
ROURKELA-769008 (INDIA)

Roll No. 111CS0463

NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA

This is to certify that   SUBHANKAR GHOSH

has successfully completed the course of studies as prescribed under the

regulations and passed the final examination for the degree of
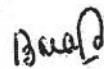
BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

with

Honours

in the session ending April, 2015 .

Rourkela
Date : 28 May 2015

Dean(Academic)
DEAN (Academic)
National Institute of Technology
ROURKELA-769008 (INDIA)

For verification of contents, please log on to institute website www.nitrkl.ac.in

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