4/440

National Institute of Technology
Rourkela

Upon the recommendation of the Senate,
hereby confers the degree of

Master of Science

in

Physics

on

Subhranshu Sekhar Samal

---

who has successfully completed the course of
studies as prescribed under the regulations and passed
the Final Examination in the session ending in April 2006,
in *First Class.*

Given this day, under the seal of the Institute
at Rourkela in the Republic of India,
the 16th Day of December 2006.

Registrar | Director | Chairman
Board of Governors

NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA
MARK SHEET

MASTER IN SCIENCE

Name : SUBHRANSHU SEKHAR SAMAL Roll No. : 40410015

Branch : PHYSICS Specialisation : X-RAY

PART-I EXAMINATION

Paper	SUBJECTS	Maximum Marks	Marks Secured
I.	(a) Classical Mechanics and Relativity	50	29
	(b) Math. Methods, Numerical Methods and Comp. Prog.	50	25
II.	(a) Quantum Mechanics - I	50	31
	(b) Solid State Physics and X-ray	50	32
III.	(a) Electrodynamics	50	29
	(b) Electronics	50	34
	Total of Theory Papers	300	180
IV.	Practical (Optics, Electricity and Magnetism)	100	80
V.	Practical (Electronics and Computer Application)	100	85
	Total of Practical Papers	200	165
	TOTAL OF PART - I	500	345

PART-II EXAMINATION

Paper	SUBJECTS	Maximum Marks	Marks Secured
VI.	(b) Quantum Mechanics - II	50	22
	(b) General Spectroscopy	50	30
VII.	(a) Nuclear and Particle Physics	50	34
	(b) Statistical Mechanics	50	39
VIII.	Special Paper - Electronics / X-ray	100	65
	Total of Theory Papers	300	190
IX.	Practical (Modern Physics)	100	80
X.	Practical (Electronics / X-ray)	100	88
	Total of Practical Papers	200	168
	TOTAL OF PART-II	500	358
	GRAND TOTAL	1000	703

Remarks : 1. Minimum Pass Marks is 36% in the aggregate of the Theory Papers and 40% in the aggregate of Practical Papers in each part.

2. 1st Class : 60% or above of the maximum marks (600 or above).
3. 2nd Class : 48% or above of the maximum marks (480 or above but below 600).
4. Pass : Below 48% of the maximum marks (below 480).

Date : 05-Jun-06

Verified By : 05/06/06

5/6/06

ASST. REGISTRAR (ACADEMIC)