

University of Calcutta



This is to certify that
Sunandan Naha

obtained the degree of **Master of Science**
 in this University in 2015, Under Semester
 Examination System, the special branch in which he
 was examined having been **Marine Science**
 and that he was placed in the **First Class**
 attaining Grade '**A**'.

2400007

Senate House,
 The 17th July, 2015

Sugata Majit
 Vice Chancellor.



M.S.C. 1st SEMESTER EXAMINATION

The following is the statement of Marks obtained by **SUNANDAN NAHA**Roll No. : **91/MRS/131008** Registration No.: **A04-1112-0136-10**

at the aforesaid examination, 2013

(Held in DECEMBER 2013) in **MARINE SCIENCE**.

Course No.	Details of Courses	Theoretical		Practical		Course		Grade Point	Letter Grade
		Full Marks	Marks Obtained	Full Marks	Marks Obtained	Full Marks	Marks Obtained		
MS 101	Introductory Physical Oceanography	40	21	20	11	60	32	3.67	B
MS 102	Fundamentals of Chemical Oceanography	40	21	30	19	70	40	3.86	B+
MS 103	Fundamentals of Marine Geology	40	22	20	17	60	39	4.25	A
MS 104	Basics of Biological Oceanography	40	29	20	11	60	40	4.33	A

% of Marks	Grade Point Definition			Statement of 1st Semester		Obtained Supplementary in			
	Grade Point	Grade	Remarks	Full Marks	250	Course ID	MS --		
80 - 100	5.00 - 6.00	O	Outstanding	Full Marks	250	Course ID	MS --		
70 - 79	4.50 - 4.99	A+	Excellent	Grand Total	151				
60 - 69	4.00 - 4.49	A	Very Good	Semester Grade Point Average (SGPA)	4.021	Appeared Supplementary in			
55 - 59	3.75 - 3.99	B+	Good	Grade	A	Course ID	MS --		
50 - 54	3.50 - 3.74	B	Fair	Result *	P				
40 - 49	3.00 - 3.49	C	Satisfactory						
00 - 39	---	F	Fail						

* P - Passed the semester; XS - Supplementary but eligible to appear at next semester; F - Failed; GPW - Grade Point Withheld



MSC. 2nd SEMESTER EXAMINATION

The following is the statement of Marks obtained by **SUNANDAN NAHA**Roll No. : **91/MRS/131008** Registration No.: **A04-1112-0136-10** at the aforesaid examination, 2014(Held in MAY 2014) in **MARINE SCIENCE.**

Course No.	Details of Courses	Theoretical		Practical		Course		Grade Point	Letter Grade
		Full Marks	Marks Obtained	Full Marks	Marks Obtained	Full Marks	Marks Obtained		
MS 201	Dynamic Oceanography and Fluid Mechanics	40	16	20	14	60	30	3.50	B
MS 202	Marine and Atmospheric Chemistry	40	19	20	13	60	32	3.67	B
MS 203	Marine Tectonics, Sedimentology and Stratigraphy	40	16	20	15	60	31	3.58	B
MS 204	Marine Ecology and Pollution	40	33	30	22	70	55	4.93	A+

% of Marks	Grade Point Definition				Statement of 2nd Semester		Obtained Supplementary in			
	Grade Point	Grade	Remarks		Full Marks	250	Course ID	MS --		
80 - 100	5.00 - 6.00	O	Outstanding		Full Marks	250	Course ID	MS --		
70 - 79	4.50 - 4.99	A+	Excellent		Grand Total	148				
60 - 69	4.00 - 4.49	A	Very Good		Semester Grade Point Average (SGPA)	3.960	Appeared Supplementary in			
55 - 59	3.75 - 3.99	B+	Good		Grade	B+	Course ID	MS --		
50 - 54	3.50 - 3.74	B	Fair		Result *	P				
40 - 49	3.00 - 3.49	C	Satisfactory							
00 - 39	---	F	Fail							

* P - Passed the semester; XS - Supplementary but eligible to appear at next semester; F - Failed; GPW - Grade Point Withheld



M.SC. 3rd SEMESTER EXAMINATION

The following is the statement of Marks obtained by **SUNANDAN NAHA**Roll No. : **91/MRS/131008** Registration No.: **A04-1112-0136-10**

at the aforesaid examination, 2014

(Held in JANUARY 2015) in

MARINE SCIENCE.

Course No.	Details of Courses	Theoretical		Practical		Course		Grade Point	Letter Grade
		Full Marks	Marks Obtained	Full Marks	Marks Obtained	Full Marks	Marks Obtained		
MS 301	Meteorology, Remote Sensing and GIS	35	21			35	21	4.00	A
MS 302	Marine Biogeochemistry	40	14	20	15	60	29	3.42	C
MS 303	Coastal Geomorphology and Integrated Coastal Zone Management	35	22			35	22	4.14	A
MS 304	Marine Microbiology	40	23	25	18	65	41	4.15	A
MS 305	Aquaculture and Fisheries Management	35	21	20	17	55	38	4.45	A

Grade Point Definition				Statement of 3rd Semester		Obtained Supplementary in			
% of Marks	Grade Point	Grade	Remarks	Full Marks	250	Course ID	MS --		
80 - 100	5.00 - 6.00	O	Outstanding	Grand Total		Appeared Supplementary in			
70 - 79	4.50 - 4.99	A+	Excellent	Semester Grade Point Average (SGPA)		Appeared Supplementary in			
60 - 69	4.00 - 4.49	A	Very Good	Grade		Course ID	MS --		
55 - 59	3.75 - 3.99	B+	Good	Result *		P			
50 - 54	3.50 - 3.74	B	Fair						
40 - 49	3.00 - 3.49	C	Satisfactory						
00 - 39	***	F	Fail						

* P - Passed the semester; XS - Supplementary but eligible to appear at next semester; F - Failed; GPW - Grade Point Withheld



M.SC. 4th SEMESTER EXAMINATION, 2015

The following is the statement of Marks obtained by **SUNANDAN NAHA**Roll No. : **91/MRS/131008** Registration No.: **A04-1112-0136-10**

at the aforesaid examination, 2015

(Held in MAY 2015) in **MARINE SCIENCE.**

Course No.	Details of Courses	Theoretical		Practical		Grade Point	Letter Grade
		Full Marks	Marks Obtained	Full Marks	Marks Obtained		
MS 401	Advances in Physical Oceanography	40	22			3.75	B+
MS 402	Advances in Chemical Oceanography	40	28			4.50	A+
MS 403	Advances in Geological Oceanography	40	26			4.25	A
MS 404	Advances in Biological Oceanography	40	16			3.00	C
SPECIAL PAPER							
MS 405	Biological Oceanography	50	33			4.30	A
MS 406	Dissertation (Biological Oceanography)			40	36	5.50	O

Semester	Full Marks	Total	SGPA	Grade	CGPA & Class Definition			Grade Point Definition			
					CGPA	Grade	Class	% of Marks	Grade Point	Grade	Remarks
4th	250	161	4.220	A	5.000 - 8.000	O (Outstanding)	Ist Class	80 - 100	5.00 - 8.00	O	Outstanding
3rd	250	151	4.018	A	4.500 - 4.995	A+ (Excellent)	Ist Class	70 - 79	4.50 - 4.99	A+	Excellent
2nd	250	148	3.960	B+	4.000 - 4.495	A (Very Good)	Ist Class	60 - 69	4.00 - 4.49	A	Very Good
1st	250	151	4.021	A	3.750 - 3.995	B+ (Good)	IIInd Class	55 - 59	3.75 - 3.99	B+	Good
Cummulative Statement					3.500 - 3.745	B (Fair)	IIInd Class	50 - 54	3.50 - 3.74	B	Fair
					3.000 - 3.495	C (Satisfactory)	IIInd Class	40 - 49	3.00 - 3.49	C	Satisfactory
					0.000 - 2.995	F (Fail)	Fail	00 - 39	***	F	Fail
Full Marks	Grand Total	CGPA	Grade	Result *	Obtained Supplementary in				Appeared Supplementary in		
1000	611	4.055	A	I							

* I - First Class, II - Second Class, XS - Supplementary at this semester, XP - Previous semester(s) not clear, F - Failed.

GPW - Grade Point Withheld, SGPA = Semester Grade Point Average, CGPA = Cummulative Grade Point Average