



TECHNISCHE UNIVERSITÄT MÜNCHEN (TUM) AND

NATIONAL UNIVERSITY OF SINGAPORE (NUS)
CONFER WITH THIS CERTIFICATE

ON

BANNURU KRANTHI KUMAR REDDY

BORN ON JULY 16, 1989 IN VELGODE, INDIA

THE ACADEMIC DEGREES OF

MASTER OF SCIENCE (Industrial Chemistry)

on fulfillment of the required course of study and successful completion of the examination for the above degree jointly at the Technische Universität München and the National University of Singapore in collaboration with the German Institute of Science and Technology – TUM Asia, Singapore.

München/Singapore, April 30, 2014

LOTH-ung A. Manin Alle

Prof. Dr. Dr. h.c. mult. Wolfgang A. Herrmann President TUM Mr. Wong Ngit Liong Chair, Board of Trustees NUS Jan Choch Chuen
Prof. Tan Chorh Chuan
President NUS



EXAMINATION CERTIFICATE

for the

JOINT UNIVERSITY DEGREE MASTER OF SCIENCE INDUSTRIAL CHEMISTRY

Mr

Bannuru Kranthi Kumar Reddy

Born on July 16, 1989 in Velgode, India

has according to the examination regulations of the Technische Universität München and National University of Singapore completed the requirements for the Degree of Master of Science (Industrial Chemistry) and has

Passed with Distinction sehr gut bestanden, 1.5

Examination results are summarised on the following page.

München / Singapore, April 30, 2014

Fritz E. Jeiln

PROF. DR. RER. NAT. FRITZ KUEHN Chair of Programme Management Committee Technische Universität München dem-

ASSOC. PROF. LAM, YULIN
Deputy Chair of Programme Management Committee
National University of Singapore





CREDITS

GRADES

Master of Science (Industrial Chemistry) OFFICIAL TRANSCRIPT

 Name :
 Bannurus Kranthi Kumar Reddy
 Date of Birth :
 1 6-Jul-1990

 TUM Matric No :
 03643899
 Date of Admission :
 August 2012

 NUS Matric No :
 A0105974Y
 Academic Year :
 20122013

 Date of Conference :
 3 0 April 2014

Essential Modules		NUS	TUM	NUS	TUM
CM 5171	Organo-metallic and Coordination Chemistry	A+	1.0	6.0	9.0
CM 5172	Bioorganic Chemistry	A+	1.0	6.0	9.0
CM 5173	Chemical Reaction Engineering	C+	2.7	6.0	9.0
CM 5105	Chemical Business Administration	C+	2.7	4.0	6.0
Elective Module	s				
CM 5271a	Molecular and Heterogeneous Catalysis	B+	1.7	4.0	6.0
CM 5271b	Petroleum and Petrochemistry Processes	A	1.0	4.0	6.0
CM 5272a	Biochemistry for Industrial Chemists	A-	1.3	4.0	6.0
CM 5272c	Bioprocessing/Bioengineering	B+	1.7	4.0	6.0
TUM 2	Building Chemistry and Construction Chemicals	A+	1.0	4.0	6.0
TUM 4	Industrial Chemical Marketing	A	1.0	4.0	6.0
CM 5223	Topics in Supramolecular Chemistry	B+	1.7	4.0	6.0
Cross-Discipline					
CD 5031	Cultural, Social and Economical Aspects of Globalisation	. A+	1.0	1.0	1.0
CD 5041	Technical English	B+	1.7	0.5	1.5
CD 5042	Business English	B+	1.7	0.5	1.5
CD 5130	Legal Aspects in the Chemical Industry	A+	1.0	1.0	1.0
CD 5131	International Intellectual Property Law	A+	1.0	1.0	1.0
Internship	Vanadium Compounds as Active Materials in Sodium Ion Batteries	Pass	Pass	10.0	15.0
Master Thesis	Full Cell Electrochemical Studies Based on High Capacity	B+	1.7	20.0	30.0
Master Thesis	Full Cell Electrochemical Studies Based on Figh Capacity Silicon/Carbon Composite Anode Materials for Lithium Ion Batteries	3*	1.7	20.0	30.0

Grades Grade Points: A+&A:5 A-45 B+4 B:35 B+3 C+25 C:2 D+15 D:1 F:0 German equivalent: A+&A:10 A-13 B+17 B:20 B+23 C+27 C:30 D+33 D:40 F:50 Cernalitive Assempe Point (CAP) for Graduation

Total Credit: 120 CAP: 4.18

Master (by coursework) = 2.5

MODULES

PROF. DR. RE. NAT. FRITZ KUEHN
Chair of Programme Management Committee
Technische Universität München

ASSOC. PROF. LAM YULIN Deputy Chair of Programme Management Committee National University of Singapore

ASSOC PROF LAM VIII.IN