CURRICULUM VITAE: VIPUL NAIK

VIPUL NAIK

1. GENERAL INFORMATION

1.1. **Basic information.** My name, date of birth and other information:

Name	Vipul Naik
Date of birth	April 23, 1986
Current occupation	Student (B.Sc. Math 3rd Year)
Course	B.Sc. (Hons) Mathematics
Expected date of completion	July 2007
Institution	Chennai Mathematical Institute

1.2. **Contact information.** Address for correspodence:

    606, RMV Clusters Phase 2 Block 4,
    Devi Nagar, Lottegollahalli
    Bangalore, India
    PIN: 560 094
    Telephone number: +91 80 65676775

Email ID: vipul@cmi.ac.in

2. ACADEMIC HISTORY

2.1. **Quick overview.** I am currently in the third year of a three-year programme of B.Sc. (Hons) in Mathematics at the Chennai Mathematical Institute. Given below are my aggregate scores at important turning points:

Level	Year	Score
Class 10 (secondary)	2002	89% (100% in mathematics)
Class 12 (senior secondary)	2004	91.4% (100% in mathematics)
B.Sc. (first four semesters)	2007	9.59/10 (CGPA)

2.2. **Undergraduate course details.** In Chennai Mathematical Institute, a grade point is awarded in each subject out of 10. A grade of A corresponds to 10 out of 10, a grade of AB corresponds to 9 out of 10, while a grade of B corresponds to 8 out of 10.

First semester courses:

Course	Instructor	Grade
First semester		
Algebra I	K.R. Nagarajan	A
Calculus I	D.S. Nagaraj	A
Classical Mechanics	P.P. Divakaran	B
English	Shreekumar Varma	A
Programming I (Haskell)	Madhavan Mukund	A
Second semester		
Algebra II	S. Ramanan	A
Calculus II	–	B
Discrete Mathematics	Bharat Adsul	A
Economics	Lakshmi Kumar	B
Programming II (C)	S.P. Suresh	A
Third semester		
Algebra III	K.R. Nagarajan	A
Analysis I	Amritanshu Prasad	A
Calculus III	Suresh Nayak	A
Design and Analysis of Algorithms	K.V. Subramanyam	B
Global Calculus*	S Ramanan	A
Theory of Computation+	Narayan Kumar	A
Fourth semester		
Course	Instructor	Grade
Analysis II	Suresh Nayak	A
Computer Organization	S.P.Suresh	A
Electromagnetism I	K.S. Balaji	A
Game Theory*	T. Parthasarathy	A
Topology	V. Balaji	A
Programming Language Concepts+	Madhavan Mukund	AB
Analytic Number Theory	R. Balasubramanian	audit
Complexity Theory	V. Arvind	audit
Automata, Logic, Games and Algebra	K. Narayan Kumar	audit

Star-marked courses are optional, courses marked with a + are fast-forwarded courses intended for a later semester.

Information about the evaluation and grading system in CMI is available at:
`http://www.cmi.ac.in//locallinks/evaluation.php`

2.3. Summer camps.

(1) Summer camp at the **Institute of Mathematical Sciences** from May 9th to June 17th, 2005. The topic was "Groups, Representations and Algebras". The instrcutors weer Proefssor V.S. Sunder, Dr. K.N. Raghavan, and Dr. Amritanshu Prasad.

(2) **Microsoft Research Summer School on Algorithms, Complexity and Cryptography** from May 22nd to June 10th, 2006, at the Indian Institute of Science. The co-ordinators were Ramaratnam Venkatesan (Microsoft Research) and Professor Pandu Rangan (IIT Chennai). The webpage is:
`http://math.iisc.ernet.in/~imi/sacc`
The list of selected candidates is availabe at:
`http://math.iisc.ernet.in/~imi/downloads/weblist.pdf`

(3) **Visiting Students Research Programme** at the **Tata Institute of Fundamental Research**, from June 15th to July 14th, 2006. Professor Dipendra Prasad was the co-ordinator and he was also my guide. I studied the paper "Lie Group Representations of Polynomial Rings" by Bertram Kostant.
The list of selected students is available at:
`http://www.math.tifr.res.in/~vsrp/selected.html`

(4) I am among three students from CMI selected for the **ENS-CMI Exchange Programme** to be held from May 2, 2007 to June 29, 2007.

3. Other important achievements/activities/awards

3.1. **Olympiads.** My scores for the two Olympiads can be viewed at:
   (1) I represented India at the **International Mathematical Olympiad** in 2003 held in Tokyo, Japan. I scored 23 points out of 42, the highest in the Indian team, and secured a silver medal.
   (2) I represented India at the **International Mathematical Olympiad** in 2004 held in Athens, Greece. I scored 30 points out of 42, the highest in the Indian team, and secured a silver medal.
       My scores in both Olympiads can be checked by searching for "Vipul Naik" on the IMP Compendium search page:
       `http://www.imo.org.yu/index.php?options=gl|imotres&p=39v_31`
   (3) I qualified the **Zonal Informatics Olympiad** 2004(where approximately 5000 people participate and 200 are selected).
   (4) I qualified the **National Standard Examination in Physics** 2004, coming in the top 1% out of approximately 31,000 participants. Hence, I appeared for the Indian National Physics Olympiad, which is a qualifying round for selection to the Indian team for the International Physics Olympiad.

3.2. **Scholarships.** I have won the following scholarships:
   - The **National Talent Search Examination** (NTSE) scholarship. I won this scholarship based on an entrance-test-cum-interview selection.
   - The **Kishore Vaigyanik Protsahan Yojana** (KVPY) scholarship. This scholarship was instituted by the Department of Science and Technology to promote excellence in pure science. The scholarship covered all my under-graduate study expenses.

3.3. **Trivia: School-level competitions.**
   - I secured an All India Rank 10 in the Screening Test and an All India Rank 158 in the Mains of the Joint Entrance Examination (JEE) for the Indian Institutes of Technology (IITs).
   - I secured first rank in the National Science Olympiad in Standard 8.