



AMIT KUMAR

Second Year Undergraduate
Department of Computer Science
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TRANSCRIPT

YEAR/SEM	COURSE NO	TITLE	UNIT	GRADE	SPI	CPI
2013-2014 FIRST	CHM101	CHEMISTRY LABORATORY	3	A	10.0	10.0
	ESC101A	FUNDAMENTAL OF COMPUTING	14	A		
	MTH101A	MATHEMATICS I	11	A		
	PE101A	MORNING EXERCISE	3	S		
	PHY103A	PHYSICS-II	11	A		
	SOC171A	INTRODUCTORY SOCIOLOGY	11	A		
2013-14 SECOND	CHM102A	GENERAL CHEMISTRY	8	B	9.2	9.6
	LIF101A	INTRODUCTION TO BIOLOGY	6	A		
	MTH102A	MATHEMATICS -II	11	A		
	PE102A	EVENING EXERCISE	3	S		
	PHY101A	PHYSICS LABORATORY	3	A*		
	PHY102A	PHYSICS - I	11	B		
	TA101A	ENGINEERING GRAPHICS	9	A		
2014-15 THIRD	COM200	COMMUNICATION SKILLS: COMPOSITION	5	S	8.5	9.2
	CS201A	MATHEMATICS FOR COMPUTER SCIENCE -I	9	B		
	CS210A	DATA STRUCTURE AND ALGORITHMS	12	B		
	ESC201A	INTRODUCTION TO ELECTRONICS	14	A		
	ESO204A	FLUID MECHANICS AND RATE PROCESSES	11	B		
	TA201A	MANUFACTURING PROCESSES -I	6	B		

EDUCATIONAL QUALIFICATION

Year	Degree	School/Institution	CPI/Percentage
2013-present	B-Tech	Indian Institute of Technology Kanpur	9.24
2013	XII	The Avadh School	96.0
2011	X	Nirmala Convent Inter College	95.2

SCHOLISTIC ACHIEVEMENTS

- Secured 60th rank in ACM ICPC Amritapuri Regionals among 1600 national teams
- Secured All India Rank 1128 in JEE Advanced among more than 0.5 million aspirants
- Secured All India Rank 421 in JEE Mains among more than 1.2 million aspirants
- Secured AIR - 62 in Kishore Vaigyanik Protsahan Yojana (KVPY) -2012 out of 40,000 students
- Secured AIR -76 in National Science Level Talent Search Examination (NSTSE) 2011
- Qualified National Standard Examination in Physics (NSEP) 2012 among 300 students in India
- Qualified National Standard Examination in Chemistry (NSEC) 2012 among 300 students in India

- Awarded Best Staff Pick Project in Manufacturing processes course
- School Topper in (X) ICSE 2011 and (XII)CBSE 2013 with 100% marks in Environmental Education(ICSE)

PROJECTS

Programming Club Website Development

- Developed a fully login based website with the facility to upload tutorial, projects, documentation
- Website has a forum for discussing various issues
- Used iFrame to add google calendar for various PCLub(Programming Club) events
- Used Web Scraping to automatically update CodeChef Ranking of Students of IIT Kanpur after every contest
- Used Twitter APIs to get the latest updates of famous personalities and technology news

Advanced Track Project Under Prof. Surendar Baswana

- Designed two algorithm (first one time efficient and other memory efficient) for a Geometric Data Structure Problem
- Detailed Analysis and Proofs of Complexity of Time and Space for both the approach
- Ran the program on data upto million numbers and made comparison between the two data structures

Open Air Theatre(As a part of course TA201)

- Manufactured a replica of Open Air Theatre, IIT Kanpur using various manufacturing processes like welding, casting, brazing and metal sheet forming.

TECHNICAL SKILLS

Programming Language: C , C++, Python ,Java , Verilog

Web Development: HTML5, CSS, Ajax ,Jquery,PHP

Platform: Windows, Linux(Ubuntu , Fedora, Debian)

Frameworks: CodeIgniter, Semantic UI

Software and Utilities: Git, 3Ds max, Latex , Vim, Solidworks

Database Systems: MySql

RELEVANT COURSES UNDERTAKEN

ESC101	Fundamental of computing	ESC201	Introduction of Electronics
CS210	Data structures and Algorithms	TA101	Engineering Graphics
CS201	Discrete Mathematics	TA201	Manufacturing processes
CS220	Computer Organization and Architecture	CS202	Logic in Computer Science

POSITIONS OF RESPONSIBILITY

Student Guide under the Counselling Service, IIT Kanpur

- Mentored 6 freshmen, guided and supported them academically and emotionally during their initial period of stay at IIT Kanpur and was also responsible for their smooth and comfortable transition to college environment

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Active user in various Programming websites like CodeChef and SPOJ
- Stood 3rd in 24 hours Freshers Programming Contest
- Secured 70th position in ACM ICPC Gwalior Online Round 2014
- Participated in various Card Games (Poker, 29) held in IIT Kanpur
- Play Volley Ball, Badminton, Table Tennis and Basketball. Had Volley Ball as CPA (Compulsory Physical Activities)
- Participated in District Athletics Meet in 100m Sprint and Hurdle race