

Curriculum Vitae



Rahul Kumar
B.Tech Chemical Engineering
Visvesvaraya National Institute of Technology, Nagpur
DOB: 18 Dec 1990

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Examination	University	Institute	Year	CPI / %
Graduation	VNIT, Nagpur	VNIT, Nagpur	2013	6.89
Intermediate	CBSE	Chinmaya Vidyalaya, Bokaro	2008	77.80
Matriculation	CBSE	Bal Vidya Niketan, Jehanabad	2006	90

RELEVANT COURSES

- Numerical Analysis & Probability Theory
- Computational Methods in Chemical Engineering
- Management Information System
- Computer programming
- Web Technology
- Chemical Plant Design (mechanical & economic aspects)
- Engineering Optimization
- Modeling and Simulation

SCHOLASTIC ACHIEVEMENTS

- Recipient of **National Talent Search Examination Scholarship 2006**, conducted by NCERT
- Recipient of **Indian Oil Scholarship (11th & 12th)** that is for impoverished, but gifted students based on previous academic record
- Shortlisted for **A* Star India Youth Scholarship Examination 2004** (among 400 all over India) conducted by **Ministry of Education, Singapore**.
- AIR-36(2004) & AIR-104(2003)** in NSTSE conducted by unified council.

INDUSTRIAL EXPERIENCE

The Raymond, Chhindwara Plant, Nagpur - *Industrial visit* (October, 2011)

- Studied the different **unit operations** involved in **fabrics manufacturing**
- Studied the associated small **water treatment plant** inside the plant campus.

ACADEMIC PROJECTS

Cross-flow Microfiltration of oil-in-water emulsion using low cost Ceramic membrane
Summer Internship at IIT, Guwahati under prof. Ramgopal Uppaluri (May 2011-Jun 2011)

- Collected **Permeate flux** data at different concentration of emulsion and at different pressure drop across different membranes
- Collected Absorbance, Permeate oil & Feed oil Concentrations and Rejection data of emulsion Using **Spectrophotometer**
- Analyzed Fouling Mechanism** by modeling the data in **MS-EXCEL** on the basis of **Error Analysis**

POSITIONS OF RESPONSIBILITY

Member, Website Team, Chemical Department, VNIT, NAGPUR (2011 - Current)

- Responsible for adding and deleting contents on website.
- Introduced online learning (videos & pdf)
- Introduced portal for faculty to post assignments any time which expires on last date.

MEMBER, NAVPRAYAS, AN NGO, MANPUR, BIHAR

(Jun – Jul 09, 10, 11)

Navprayas promotes and encourage education by organizing competitive examinations and workshops

- Presided over the working of Navprayas in 2010 & 2011, conceptualized and organized questionnaire, felicitation ceremony and scheduling.
- **Introduced** a new competition **Puzzle Race** for the first time in the year 2009 which witnessed over **500 participation** and **conducted workshop** on Rubik's Cube in the same year
- Met with various school principals and convinced them for providing logistics support

SOFTWARE PROFICIENCY

- Developed an **Emailing platform** in C++ using file handling concept in which a user can login and send messages to another user who logs in at later time.
- Created a **static website** for information on Indian cricket.
- Developed **pharmacokinetic models** in Simulink, MATLAB & C++ which analyses the existence of drugs at various parts of the human body with time.
- Developed and deployed **Bounding phase method** (a mathematical optimization method) using MATLAB.
- **Software Skills**
 - *Statistical Software:* **Matlab, Scilab, Simulink**
 - *Programming languages:* **C, C++, Java**
 - *Web technology:* **HTML, CSS, JavaScript, Joomla**
 - *Software Tools:* **Photoshop, MS-Office**
 - *Operating systems:* **Windows XP/Vista/7, Ubuntu**

EXTRA-CURRICULAR ACTIVITIES**SPORTS**

- Participated in 4x100m **Relay Race** at District Level
- Play **Cricket** and **Table tennis**
- Solve **RUBIC CUBE**

SOCIAL

- Actively participate in social club, **PRAYAAS, VNIT** by voluntarily teaching children in slums, helping in clothes collections for poor and providing logistics support.

OTHERS

- Won **Quiz Contest** held at town level in class-7
- Among **TOP 5** of **MTSE** (Manpur Talent Search Examination) held by **NAVPRAYAS**, for 5 consecutive years.
- Managed event **ENTERPRENEUR** at technical festival of **VNIT, AXIS '10**
- **Azeotropy** (chemical technical symposium) ambassador for publicity in VNIT

GENERAL INFORMATION**Present Address**

Room No- G09
Block – 6
VNIT BOYS HOSTEL
VNIT, NAGPUR-440010

Permanent Address

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