



Ranjana Devi
Mechanical Engineering
Indian Institute of Technology Bombay

110100078
UG Third Year (B.Tech.)
Female
DOB: 01/09/1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	7.48
Intermediate/+2	Board of Intermediate Education, A.P,	Narayana junior college	2011	93.90
Matriculation	Secondary School Certificate	Narayana Concept school	2009	89.33

SCHOLASTIC ACHIEVEMENTS

- Currently pursuing **degree of Honours** in the field of “Modelling the burr formation in micro-milling”
- Awarded **Certificate of Merit** for being in **top 1% in National Standard Exam Astronomy-2010**
- Secured All India Rank 1088 amongst 5 lakh students in IIT-JEE 2011

KEY ACADEMIC PROJECTS

Finite Element Method Study of Drilling of Composites (July'13- Nov'2013)	<p><i>Guide- Prof. Ramesh Singh, Mechanical Engineering, IITB</i></p> <ul style="list-style-type: none"> • Obtained the weightages of process parameters on thrust forces due to drilling in a composite sheet • Applied the forces in HYPERWORKS to study the stress concentration and obtained the conditions to manufacture high strength composites • Compared the above with the stress concentrations obtained from ANYSYS with the simple metallic sheet of same geometry to test their strengths
Understanding of IC engine processes (May'13- Aug'13)	<p><i>Guide- Prof. Sreedhara Shashadri, Mechanical Engineering, IITB</i></p> <ul style="list-style-type: none"> • Studied atomization and obtained criteria for low emissions from engines • Achieved homogeneous charge for engines by obtaining data about the gasoline spray uniformity and mean diameter and using Malvern Setup • Gained exposure to various kinds of engines and a detailed study of their types • Literature survey of academic papers on Gasoline Spray Studies
Productivity models of various countries (July'13- Nov'13)	<p><i>Guide-Prof A.Subash Babu, Industrial Engineering and Operational Research, IITB</i></p> <ul style="list-style-type: none"> • Studied Productivity and Productivity models • Studied the Total factor productivity determinants and its growth by two modes of analysis <ul style="list-style-type: none"> a) Cross country regression analysis of large set of countries b) Country case studies • Obtained the key determinants and its weightage for productivity growth
‘Cycrella’ - Innovation by design (July'13- Nov'13)	<p><i>Guide- Prof. B.K. Chakravarthy, Industrial Design Centre, IITB</i></p> <ul style="list-style-type: none"> • Worked in a team of ten members and prototyped the method to attach a roof to cycle for use in rainy season from scratch within a span of 3 months • Showcased the prototype to Ms. Amita Sharma, Additional Secretary, MHRD; Dr. Anil Kakodkar, Chairman, Board of Governors, IITB • An article was also published in The Times of India newspaper

INTERNSHIP PROJECT

Marketing and Content Development Manager at Planceess Edusoluitons (Dec'12- Jan'13)
Guided by Vivek Gupta, Visionary Entrepreneur, Director & Co-Founder Planceess EduSolution Pvt Ltd

- Studied diverse markets and **developed business proposals** designing strategic initiatives
- Improvised JEE study material and study tips
- Was part of the team which developed the webpage and the Facebook page of Planceess

SOFTWARE SKILLS

- C, C++ , Windows, Linux, Macintosh
- Adobe Photoshop, Sony Vegas

POSITION OF RESPONSIBILITY

Cultural Councilor, Hostel 10 <i>(July'13- present)</i>	<ul style="list-style-type: none"> • Responsible for enhancing all cultural activities • Conceptualized and arranged Internship Fundae Session and Group discussion workshops for the hostelites • Created an App and web browser extension that improved the relay of events • Initiated the “Hall of fame” for the first time in the hostel • Leading a team of ten secretaries working under my guidance. • Catering to seven cultural genres viz. music, dance, literary arts, speaking arts, fine arts and photography, film and media and dramatics • Managing a budget of more than 2.5 lakh during the course of my tenure • Coordinating hostel efforts to win the cultural inter-hostel competitions
Social Secretary, Hostel 10 <i>(July'12-April'13)</i>	<ul style="list-style-type: none"> • Responsible for organising festivals in the hostel in a traditional manner • Achieved 3-fold growth in number of participants • Increased the interaction among hostelites by organising social events like tea parties, movie screenings • Organised the Hostel DJ Night and Hostel Karaoke Night; huge participation from more than 200 people

AWARDS AND EXTRA CURRICULAR ACTIVITIES

Performing Arts Festival <i>(March'12)</i>	<ul style="list-style-type: none"> • Contributed to fine arts and production to the team that secured second position • Performed dramatics in the inter hostel cultural competition of IIT Bombay
Volunteer in Buddy Programme (2013)	<ul style="list-style-type: none"> • Mentored a foreign exchange student, exchanging cultures and extending hospitality while gaining valuable insight on another country's traditions
Dance	<ul style="list-style-type: none"> • Participated in the Solo Dance and Group Dance competitions for freshers • Instructor in the salsa workshop conducted by Insync for all the freshmen • Participated in the dance competition of Umang, the inter-collegiate cultural festival of Narsee-Monjee Institute of Management Studies (2012) • Participated in Gyration, the inter-hostel dance competition (2012) • Participated in Sophie Dance League, competition for all sophomores (2012) • Performed in Annual Insync Dance Show for two consecutive years
Awards	<ul style="list-style-type: none"> • Awarded PAF Colour for excellence in the Performing Arts Festival 2012 • Awarded the Organisational Special Mention in 2013 for efficiently carrying out the duties of the Social Secretary of Hostel 10

KEY COURSES UNDERTAKEN

Core Courses	Non- Core Courses
<ul style="list-style-type: none"> • Manufacturing Processes- I, II • Thermodynamics • Solid Mechanics • Engineering Graphics and Drawing • Fluid Mechanics • Heat transfer 	<ul style="list-style-type: none"> • Introduction to numerical analysis • Introduction to Electrical and Electronic circuits • Modern Physics • Sociology • Data Analysis and Interpretation • Computer Programming and Utilization (C++)