

Dr. Ambedkar College, Deekshabhoomi, Nagpur

Department of Statistics

Guest Lecture on “Career Counselling and Job Opportunities for Statistics and Mathematics Students” by Dr. Diwakar R. Tripathy on 5th April, 2023

The department of Statistics and Mathematics jointly organized a guest lecture of Dr. Diwakar R. Tripathi, ex-student of Dept. Of Statistics of Dr. Ambedkar College and currently working as Assistant Professor and HoD of PG department of computer Science of S.S. Maniar College of Computer and Management on “**Career Counselling and Job Opportunities for Statistics and Mathematics Students** “. Ms. Siya Mishra of final year introduced the speaker to audience.

Guest delivered the lecture on the various opportunities which are available for our college students after completing their graduation. Students can opt for career in either academics and in the industry. The speaker highlighted various avenues which are available for the students. For academic career the students has to do post graduate course followed by Ph. D. Students who do these courses from reputed institutions get good jobs. Students who want to make a career in academic field also have to acquire special skill sets particularly in the field of software and hardware as computers have become an integral part of all fields. Students should develop their communication skills which are very much required in the academic field. They can also pursue post-doctoral research or they can appear for competitive exams like NET, SET etc to join as Asst. Professors in colleges.

The speaker also guided the students who want to make a career in fields other than academic field. For this he advised the students to acquire computer related skill sets such as data science, Python etc. The students should also give attention to their personality development by improving their communication skills. Then speaker gave information about the latest trends in Industries and skill sets required for the various Job titles in top companies. He focused on Skill Enhancement Training Programs required to fill up the gap between syllabus and industry requirements. He asked the students to utilize their **24hrs** in proper direction to achieve career objectives. He informed the use of various mathematical or statistical tools like mean, median, mode, standard deviation, PERT, CPM method etc. which are required frequently by the industries.

He suggested Experiential Learning Tools like

1. Hands- on- Learning on Next- Gen technologies
2. Project Based Learning, Participation in National & International Competitions
3. Blended Learning with online assignments and access to lectures on LMS
4. Industry Visits, Workshops and Expert Sessions
5. Individual Assessment based on participation in beyond the classroom activities

Following are some of the Jobs & required Skill for the statistics & Mathematics students:

| JOB TITLE | REQUIRED SKILLS |
|-----------------------------------|--|
| Application Analyst | <ul style="list-style-type: none"> • Problem Solving • The ability to relay technical information to non-technical users and elicit clients' needs • The ability to work independently but also as a part of a team |
| IT Manager | <ul style="list-style-type: none"> • Problem solving and decision making • Leading without authority |
| Data Architect | <ul style="list-style-type: none"> • Data integration, Data access • Logical and physical data modelling skills |
| Database Manager | <ul style="list-style-type: none"> • Understanding of one or more traditional databases or the new technologies • Troubleshoot data integrity issues • Manage a team of other database specialists |
| Data Warehouse Developer | <ul style="list-style-type: none"> • Collect and analyse business data from external and internal sources • Business intelligence skills • Data mining, Data analysis, Reporting |
| Web Developer | <ul style="list-style-type: none"> • Should be good in JavaScript, HTML, CSS and related technologies • “back-end” coding, or require specialization • Back-end coding could be using Java, Ruby, Python or Perl, etc. • Database queries and manipulation |
| Technical Content Engineer | <ul style="list-style-type: none"> • The content strategist plans for the creation, publication, and governance of useful, usable content • The content engineer organizes the shape, structure, and application of content assets |

| | |
|--------------------------------------|--|
| Data Scientist | <ul style="list-style-type: none"> • In contrast, data scientists are focused on advanced mathematics and statistical analysis on that generated data • Simply put, data scientists depend on data engineer |
| Data Engineer | <ul style="list-style-type: none"> • Data Engineers are focused on building infrastructure and architecture for data generation • Tools and Components of Data Architecture • In-Depth Knowledge of SQL, Other Database Solutions, Machine Learning, Data Warehousing and ETL Tools |
| Business Intelligence Analyst | <ul style="list-style-type: none"> • Data analysis • Specific Industry Knowledge • Communication Skills |

Ms. Sunidhi Nimrane of second year proposed vote of thanks.





GPS Map Camera

Nagpur, MH, India
East High Court Road, Diksha Bhoomi, Nagpur,
440010, MH, India
Lat 21.130015, Long 79.067728
04/05/2023 10:51 AM GMT+05:30
Note : Captured by GPS Map Camera



GPS Map Camera

Nagpur, MH, India
East High Court Road, Diksha Bhoomi, Nagpur,
440010, MH, India
Lat 21.130430, Long 79.067543
04/05/2023 10:48 AM GMT+05:30
Note : Captured by GPS Map Camera