



**Department of Statistics,
Assam University, Silchar-788011**

**Report of the Three Day Workshop on Researchers' Hands on Training in
Microsoft Excel from 22nd to 24th December, 2015**

The Department of Statistics, Assam University organized the three day Workshop on Researchers' Hands on Training in Microsoft Excel from 22 to 24 December, 2015. Data analysis is the process of extracting meaningful information from large data sets based on various statistical and algebraic techniques. The analysis of data sets are having wide application in different branches of science, social science and in business domains. Keeping these circumstances in mind, the workshop aimed at showcasing to its participants the different tools of data analysis and data handling available in Microsoft Excel.

In the workshop relevant statistical theories and techniques were discussed. Some graphical tools, their presentation and reporting of statistical computations was also highlighted. The event was organized in the Department of Statistics, Assam University, Silchar. The coordinator of the workshop was Dr. Tanusree Deb Roy, Assistant Professor, Department of Statistics, Assam University, Silchar. The registration details for participating in the workshop was given in the Assam University website www.aus.ac.in/seminars/Workshop_EXCEL_Statistics.pdf. The banner and schedule of the event are provided below.

The registration fee of the workshop was Rs. 700/- only. This included workshop kit, light refreshments, humble working lunch during the workshop days and a certificate of program completion.

Department of Statistics
Assam University, Silchar

Registration is on for...

Workshop on
RESEARCHER'S HANDS ON TRAINING IN MICROSOFT EXCEL
22nd to 24th December

www.aus.ac.in/seminars/Workshop_EXCEL_Statistics.pdf

Workshop Coordinator
Dr. Tanusree Deb Roy,
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This is for STATISTICS

Workshop on Researchers' Hands on Training in Microsoft Excel
22 to 24th December, 2015
Organized by: Department of Statistics, Assam University, Silchar

Program Schedule

| | 10.00 - 11.15 | 11.15 - 11.30 | 11.30 - 12.45 | 12.45 - 1.30 | 1.30 - 2.45 | 2.45 - 3.00 | 3.00 - 4.15 |
|----------|--|---------------|---|--------------|--|-------------|---|
| 22.12.15 | Inaugural | TEA BREAK | Measures of central tendency, dispersion and correlation (JG) | LUNCH BREAK | Basic Excel, statistical functions in Excel, graphs (SG) | TEA BREAK | Regression, curve fitting (non-linear), multiple regression (DJB) |
| 23.12.15 | Simple linear regression, curve fitting, Scatter diagram (SDR) | | Multiple regression (DJB) | | Test of significance Z, t, F and χ^2 - tests, concept of p-value (DK) | | Test of significance in Excel (HS) |
| 24.12.15 | ANOVA (DJB) | | Distribution fitting, random number generation (HS) | | Data filtering, cross tabulation, conditional sum, simulation (HS) | | Valedictory |

: Theory class : Practice session
 DJB: Prof. Dibyojyoti Bhattacharjee DK: Dr. Debasis Kar SDR: Dr. Suprabir Dutta Roy
 SG: Mr. Sankar Goswami HS: Dr. Hemanta Saikia JG: Dr. Jonali Gogoi

The topics discussed in the workshop was not limited to Microsoft Excel basics, mathematical and statistical functions, descriptive statistics, simple regression, curve fitting, multiple regression, random number generation, simulation, distribution fitting, statistical tests of significance, ANOVA (one-way and two-way), graphs and charts, cross tables, data filtering. In the workshop forty one participants registered from all over India. The participants included Faculties from Universities and Colleges, Medical Professionals, Research Scholars, Passed out PG Students.

The event started at 10 AM on 22nd of December, 2015 with welcome address by the Head of the Department of Statistics, Assam University, Silchar Prof. Dibyojyoti Bhattacharjee. After the welcome address Dr. Suprabir Dutta Roy, Controller of Exams, Assam University, Silchar, Dr. Debasis Kar, CDC, Assam University, Silchar, Prof. Bipul Shyam Purkayastha, Dean, School of Physical Sciences, Assam University, Silchar addressed in the Inaugural Session of the workshop. The session ended with the vote of thanks given by the coordinator of the workshop Dr. Tanusree Deb Roy, Assistant Professor, Department of Statistics, Assam University, Silchar.

On the first day of the workshop, 24th December, 2015 Prof. Dibyojyoti Bhattacharjee, Head, Department of Statistics, Assam University, Silchar, Dr. Jonali Gogoi, Assistant Professor, Department of Statistics, Assam University, Silchar and Mr. Sankar Goswami, Assistant Professor, Department of Statistics, Gurucharan College, Silchar delivered lectures. The session's included theory and practical classes. Theory classes was based on Measures of central tendency, dispersion

and correlation, Regression, curve fitting (non-linear) and multiple regression. There was one practical class that day on Basic Excel, statistical functions in Excel and graphs. The first day of the workshop ended at around 4:15 PM.

On 23rd December, 2015 the second day of the workshop Dr. Suprabir Dutta Roy, Controller of Exams, Assam University, Silchar, Dr. Debasis Kar, CDC, Assam University, Silchar, Prof. Dibyojyoti Bhattacharjee, Head, Department of Statistics, Assam University, Silchar, Dr. Hemanta Saikia, Assistant Professor, School of Business, Kaziranga University, Jorhat delivered their lectures. The session started at around 10:00 AM. Three practical sessions included with one theory class. Theory class comprised of Test of significance Z, t, F and χ^2 tests, concept of p-value. The practical classes included Simple linear regression, curve fitting and Scatter diagram, Multiple regression and Test of significance in Excel. The participants of the workshop also clarified their doubts in the sessions. The third day sessions ended at around 4:30 PM.

On 24th December, 2015 the third and last day of the workshop began at around 10:00AM. Prof. Dibyojyoti Bhattacharjee, Head, Department of Statistics, Assam University, Silchar, Dr. Hemanta Saikia, Assistant Professor, School of Business, Kaziranga University, Jorhat were the speakers of third day. The sessions included two practical classes and one blended class which incorporated both theory and practical. Practical classes was taken on ANOVA and Data filtering, cross tabulation, conditional sum, simulation. Blended class was on Distribution fitting, random number generation.

The Valedictory Session of the Workshop started at 3:00 PM on the 24th of December, 2015. Dr. Debasis Kar, CDC, Assam University, Silchar, Prof. Bipul Shyam Purkayastha, Dean, School of Physical Sciences, Assam University, Head of the Department of Statistics, Assam University, Silchar Prof. Dibyojyoti Bhattacharjee, Faculty members from Department of Statistics, Assam University, Silchar were present in the valedictory session. The session started with the distribution of certificates to the participants which were distributed by the dignitaries present in the session. The participants also expressed their opinions in the valedictory session. They expressed that they could gain knowledge from the lectures of the speakers who delivered their lectures in the workshop. Dr. Debasis Kar, CDC, Assam University, Silchar, Prof. Bipul Shyam Purkayastha, Dean, School of Physical Sciences, Assam University expressed their satisfaction towards the successful completion of the workshop. Head of the Department of Statistics, Assam University, Silchar Prof. Dibyojyoti Bhattacharjee thanked everyone for participating and contributing towards the success of the event. A Pre-Christmas celebration was arranged on behalf of the

Department of Statistics, Assam University, Silchar which added to the glory of the event. Finally the valedictory session came to an end with the vote of thanks given by Dr. Jonali Gogoi, Assistant Professor, Department of Statistics, Assam University, Silchar

Group Photo of the participants after the valedictory session of the event.



Following are the list of participants of the workshop

| Name | Affiliation | Designation | Department |
|--------------------------|------------------|------------------|----------------------------------|
| Md Anisur Rahman | Assam University | Research Scholar | Ecology & Environmental Science |
| H. Nandakumar Singh | Assam University | Research Scholar | Ecology & Environmental Science |
| Khuraijam Ellora | Assam University | Research Scholar | Ecology & Environmental Science |
| Rajeeb Chetia Pator | Assam University | Research Scholar | Ecology & Environmental Science |
| Ngasepam Romen Singh | Assam University | Research Scholar | Life Science and Bio Informatics |
| Sulata Kar | Assam University | Research Scholar | |
| Uma Das | Assam University | Research Scholar | Life Science and Bio Informatics |
| Sumit Banik | Assam University | Research Scholar | Commerce |
| Mahfuz Alom Mazumder | Assam University | Research Scholar | Commerce |
| Surajit Paul | Assam University | Research Scholar | Commerce |
| Shantosree Dutta | Assam University | Research Scholar | Commerce |
| Banasree Sharma | Assam University | Research Scholar | Ecology & Environmental Science |
| Laimayum Bidyalaxmi Devi | Assam University | Research Scholar | Ecology & Environmental Science |
| Moirangthem Thajamanbi | Assam University | Research Scholar | Ecology & Environmental Science |

| Name | Affiliation | Designation | Department |
|---------------------------|------------------------------|-----------------------|---------------------------------|
| Pinak Deb | Assam University | Research Scholar | |
| Shambi Deb | Ramanuj Gupta Junior College | Lecturer | Statistics |
| Biswajit Singh | Assam University E&ES | Research Scholar | Ecology & Environmental Science |
| Mampi Nag | Assam University | Dy. Personnel Officer | Commerce |
| Preeti Bhattacharjee | Assam University | Research Scholar | Commerce |
| Dipankar Das | Assam University | M.Phil Scholar | |
| Dr. Nayan Mani Choudhury | SMCH | Demonstrator | Forensic Medicine |
| Dr. Gunajit Das | SMCH | Associate Professor | Forensic Medicine |
| Dr. Diganta Thakuria | SMCH | post graduate trainee | Forensic Medicine |
| Dr. Suvajit Ray | SMCH | post graduate trainee | Forensic Medicine |
| Aahen Chanu Waikhom | Assam University | Research Scholar | Ecology & Environmental Science |
| Birhungur Borogayary | Assam University | Research Scholar | Ecology & Environmental Science |
| Bimal Thapa | Pondicherry University | Research Scholar | |
| Pratiti singha | Assam University | Research Scholar | Economics |
| Firdous Barbhuiya | | medical social worker | Medical |
| Tapa Kar | S.S. College Hailakandi | Assistant Professor | Economics |
| Shibojit Choudhary | SS College Hailakandi | librarian | |
| Mamoni Choudhury | Assam University | Student | Social Work |
| Bijoy Das | Assam University | Research Scholar | |
| Juber Hussain Barbhuiya | Assam University | M.Phil Scholar | |
| Debika Nag | Cachar College | guest faculty | Commerce |
| Ipsita Nath Purkayastha | Cachar College | guest faculty | Commerce |
| Abul Fazal Mazumder | Assam University | Research Scholar | Ecology & Environmental Science |
| Biwsajyoti Bikomiya Deori | Assam University | Research Scholar | Ecology & Environmental Science |
| Arabinda Kherkatary | SS College Hailakandi | Assistant Professor | |
| Md. Zulfikar Rahman | Assam University | Research Scholar | Political Science |
| Biswabijoy Bhattacharjee | Assam University | Research Scholar | Political Science |
