



Miranda House

UNIVERSITY OF DELHI

Departmental Annual Report - 3

Departmental Activities: Curriculum and Beyond

Department: Mathematics

Academic Year: 2023-24

Part A.1

Students undertaking project work/field work/internship as part of experiential learning component of coursework

Programme: B.Sc (H) Mathematics I Year

Semester: I and II

Course: Probability and Statistics (2352011103), Ordinary Differential Equations (2352011203)

Course Code: 2352011103, 2352011203

S.No	Name of the Student	Project Title	Supervised by
1	List of the students mentioned below	Fitting of binomial, Poisson and normal distributions, Fitting of regression line using the principle of least squares, Computation of sample correlation coefficient.	Dr. Ritu Gupta, Dr. Daulti Verma
2	List of the students mentioned below	1. Solutions of first, second and third order differential equations. 2. Plotting a family of solutions of differential equations of first, second and third order. 3. Solution of differential equations using method of variation of parameters. 4. Growth and decay model (exponential case only).	Prof. Sunila Sharma, Mr. Bikram Singh



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		<p>5. Lake pollution model (with constant/seasonal flow and pollution concentration).</p> <p>6. Density-dependent growth model.</p> <p>7. Predator-prey model (basic Volterra model, with density dependence, effect of DDT, two prey one predator).</p> <p>8. Epidemic model of influenza (basic epidemic model, contagious for life, disease with carriers).</p>	

S.No.	Roll No	Name
1	7	AADYA AGARWAL
2	1614	AASHI SHARMA
3	1616	AASTHA SUPRIYA TOPPO
4	43	ADITI BANSAL
5	62	AKANKSHA KUMARI
6	115	ANJALI
7	116	ANJALI
8	143	ANKITA KUMARI
9	144	ANKITA PATWA
10	148	ANNU YADAV
11	153	ANSHIKA MITTAL
12	1748	ANSHITA PRATAP
13	161	ANSHU
14	1716	ANSHUL
15	165	ANUJA TIWARI



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16	1592	APEKSHA MALOO
17	245	AYONIJA MISHRA
18	256	AYUSHI SINGH
19	258	AYUSHI YADAV
20	1652	BHAWANA JOSHI
21	278	BHOOMI BAJAJ
22	290	BOMRIK ROMIN
23	1607	DEEPIKA
24	417	GUNGUN SINGH
25	446	HEMA
26	452	HIMANSHI GARG
27	471	ISHIKA BHATIA
28	477	ISHITA
29	492	JANIKA SHANKER
30	516	JYOTI MEENA
31	1678	KAJAL CHAUDHARY
32	526	KAJAL VERMA
33	536	KANCHAN YADAV
34	538	KANIKA
35	545	KARAM THOIBITHOI
36	566	KAVYA JAIN
37	593	KHUSHI KUMARI
38	614	KIRAN SINGH
39	662	LAXMI
40	679	MAHAK
41	724	MARY LALHRUAIZELI
42	733	MEHAK GUPTA



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43	757	MONIKA
44	1713	NAAVYA ARYA
45	785	NAINA SANJEEV TIBREWAL
46	831	NIHARIKA SINGH
47	1623	NISHI PAL
48	1664	OJASWANI
49	903	PAYAL
50	935	PRAGYA DUGGAL
51	949	PRATIKSHA BHUYAN
52	965	PRERNA
53	1683	PRIYA MITTAL
54	982	PRIYADARSHANI
55	985	PRIYALAXMI NONGMAITHEM
56	990	PRIYANKA ASHKE
57	1002	PRIYANSHI
58	1584	RAJSHREE PUKHRAMBAM
59	1016	RAKHI SINGH
60	1026	RASHMI KUSHWAHA
61	1033	REEDIM GANGWAR
62	1041	RIA THOKCHOM
63	1089	RUCHIKA
64	1104	SAKSHI
65	1719	SAKSHI KUMARI
66	1755	SAMITI SHARMA
67	1148	SANYA NARANG
68	1160	SAZIYA FATIMA
69	1718	SHALINI RAWAT



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70	1633	SHEETAL
71	1181	SHEFALI SRIVASTAVA
72	1192	SHIVANI
73	1195	SHIVANI YADAV
74	1205	SHRETA SINGH
75	1736	SIMRAN JOSHI
76	1261	SIYA SRIVASTAVA
77	1571	SNEHA
78	1283	SNIGDHA SEHGAL
79	1293	SONAM SHARMA
80	1300	SOORYANSHI
81	1362	SWECHCHA SAXENA
82	1366	SWETA MISHRA
83	1382	TANISHA SINGH
84	1385	TANISHKA GUPTA
85	1701	TANIYA
86	1709	TANUSHREE SHUKLA
87	1409	TEJASVI
88	1444	VAIDEHI KUMAR
89	1454	VANSHIKA BANSAL
90	1464	VANYA KHURANA
91	1589	VITANSHI YADAV
92	1497	YASHASHWINI SHEKHAWAT
93	1503	YASHIKA



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Programme: B.Sc (H) Mathematics II Year

Semester: III and IV

Course: Discrete Mathematics 2352012303, Numerical Analysis 2352012403

Course Code: 2352012303, 2352012403

S.No	Name of the Student	Project Title	Supervised by
1	List of the students mentioned below	<p>1) Expressing relations as ordered pairs and creating relations.</p> <p>2) Finding whether or not, a given relation is: i. Reflexive ii. Antisymmetric iii. Transitive iv. Partial order</p> <p>3) Finding the following for a given partially ordered set i. Covering relations. ii. The corresponding Hasse diagram representation. iii. Minimal and maximal elements.</p> <p>4) Finding the following for a subset S of a given partially ordered set P i. Whether a given element in P is an upper bound (lower bound) of S or not. ii. Set of all upper bounds (lower bounds) of S. iii. The least upper bound (greatest lower bound) of S, if it exists.</p> <p>5) Creating lattices and determining whether or not a given partially ordered set is a lattice.</p> <p>6) Finding the following for a given Boolean polynomial function: i. Representation of Boolean polynomial function and finding its value when the Boolean variables in it take particular values over the Boolean algebra $\{0,1\}$. ii. Display in table form of all possible values of Boolean polynomial function over the Boolean algebra $\{0,1\}$.</p> <p>7) Finding the following: i. Dual of a given Boolean polynomial/expression. ii. Whether or not two given Boolean</p>	Dr. Bhawna Bansal, Dr. Durvesh Kumar Verma, Dr. Shweta Gandhi



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		<p>polynomials are equivalent. iii. Disjunctive normal form (Conjunctive normal form) from a given Boolean expression. iv. Disjunctive normal form (Conjunctive normal form) when the given Boolean polynomial function is expressed by a table of values.</p> <p>8) Representing a given circuit diagram (expressed using gates) in the form of Boolean expression.</p> <p>9) Minimizing a given Boolean expression to find minimal expressions.</p>	
2	List of the students mentioned below	Use of computer algebra system (CAS) software: Python/SageMath/Mathematica/MATLAB/Maple/Maxima/ Scilab etc., for developing the following numerical programs: 1. Bisection method. 5 2. Newton-Raphson method. 3. Secant method. 4. LU decomposition method.	Dr. Daulti Verma, Dr. Durvesh Kumar Verma

S.N	Roll No.	Name
1	5	AAKANKSHA VERMA
2	61	AKANKSHA
3	64	AKANKSHA DUBEY
4	87	ALKA RANI
5	89	AMBIKA DIGRA
6	105	ANANYA GUPTA
7	119	ANISHA
8	146	ANMIGHA NAIR



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9	159	ANSHIKA JINDAL
10	171	ANUSHKA
11	1531	ANUSHKA SINGH
12	193	ARPITA
13	222	BANSHIKA SINGH
14	224	BARKHA
15	258	CHESHTA UPRETI
16	300	DHANVI SARDANA
17	1372	DIVYA KUMARI
18	317	DIVYA SHARMA
19	350	GARGI GANGAN
20	378	HANSIKA GAUTAM
21	400	HIMANI
22	408	HIMANSHI THAKUR
23	426	ISHA RAJ
24	432	ISHITA
25	442	JASBINA QUADRI
26	469	KALPANA CHOUDHARY
27	1379	KAMLESH MEENA
28	473	KAMNA
29	483	KANIKA PANWAR
30	1380	KARISHMA SEHGAL
31	525	KHUSHI JAIN
32	529	KHUSHI NIRMAL
33	1596	KIRAN
34	541	KIRAN MEENA
35	547	KIRTI TOMAR



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36	569	KUMARI ASIMA
37	577	KUSUM
38	589	LISITA
39	613	MANJU
40	1524	MANSHI
41	616	MANSHI GUPTA
42	663	MUSKAN
43	665	MUSKAN
44	1390	MUSKAN JAKHAR
45	686	NAKSHATA AGARWAL
46	706	NANDITA
47	708	NAVDEEP KAUR
48	709	NAVYA DABAS
49	718	NEHA MAURYA
50	726	NIDHI LOHIA
51	728	NIDHI YADAV
52	741	NISHA KUMARI
53	778	PATEL KHUSHI SURESHBHA
54	782	PAYAL KUMARI
55	784	PINTU THOKCHOM
56	787	POOJA
57	788	POOJA
58	805	PRACHI BAINSLA
59	830	PRATIBHA PRAKASH
60	864	PRIYANSHI RAJ
61	868	PUNGBALE RANGKAU
62	928	RISHIKA AGGARWAL



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63	932	RITI SANDHU
64	1604	RUSHDA
65	1032	SEJAL KUMARI
66	1521	SHEJAL
67	1070	SHIVANI
68	1617	SHIVANI YADAV
69	1079	SHRADHA TARKAR
70	1085	SHREYA GUSAIN
71	1118	SIYA
72	1162	SRISHTI TIWARI
73	1165	STUTI SINGH
74	1171	SUHANA
75	1178	SUNALI
76	1231	TANYA YADAV
77	1237	TEJAL PANCHOLI
78	1254	TVISHA SINGH
79	1259	UMAIMA ZIA PIPEWALA
80	1284	VANSHIKA VIJ
81	1290	VARSHA SINGH
82	1294	VARUNIKA PATHAK
83	1295	VEDIKA NARAD
84	1308	VRINDA RASTOGI
85	1316	YASHI DINKAR



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Programme: B.Sc (H) Mathematics III Year

Semester: V and VI

Course: [32351601] COMPLEX ANALYSIS (INCLUDING PRACTICALS), [42357618] NUMERICAL METHODS

Course Code: 32351601, 42357618

S.No	Name of the Student	Project Title	Supervised by
1	List of Students mentioned below	Use of computer algebra software (CAS), for example Mathematica/MATLAB/Maple/Maxima/Scilab etc., for developing the following numerical programs: 1. Bisection method 2. Newton–Raphson method 3. Secant method 4. Regula–Falsi method 5. LU decomposition method 6. Gauss–Jacobi method 7. SOR method 8. Gauss–Seidel method 9. Lagrange interpolation 10. Newton interpolation 11. Trapezoidal rule 12. Simpson's rule 13. Euler's method 14. Second order Runge–Kutta methods.	Dr. Durvesh Kumar Verma, Dr. Monika Arora, Dr. Durvesh Kumar Verma, Mohd. Sarik Idrisi
2	List of Students mentioned below	Modeling of the following similar problems using Mathematica/Maple/MATLAB/Maxima/ Scilab etc. 1. Make a geometric plot to show that the n th roots of unity are equally spaced points that lie on the unit circle $ z = 1$ and form the vertices of a regular polygon with n sides, for $n = 4, 5, 6, 7, 8$. 2. Find all the solutions of the equation $z^n = 1$ and represent these geometrically.	Dr. Daulti Verma, Dr. Ritu Gupta, Dr. Monika Arora, Ms. Apeksha, Dr. Bhawna Bansal



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UNIVERSITY OF DELHI

		<p>3. Write parametric equations and make a parametric plot for an ellipse centered at the origin with horizontal major axis of 4 units and vertical minor axis of 2 units. Show the effect of rotation of this ellipse by an angle of $t \in \mathbb{R}$ radians and shifting of the centre from $(0,0)$ to $(2,1)$, by making a parametric plot.</p> <p>4. Show that the image of the open disk $z - 1 - 9i < 5$ under the linear transformation $w = f(z) = (3 - 4i)z + 6 + 2i$ is the open disk $D_5(-1 + 3i) = \{w : w + 1 - 3i < 5\}$.</p> <p>5. Show that the image of the right half plane $\text{Re } z = x > 1$ under the linear transformation $w = (-1 + i)z - 2 + 3i$ is the half plane $\text{Re } w > -7$, where $u = \text{Re}(w)$, etc. Plot the map.</p> <p>6. Show that the image of the right half plane $A = \{z : \text{Re } z \geq C\}$ under the mapping $w = Um$ is the closed disk $w - 1 \leq 1$ in the w-plane.</p> <p>7. Make a plot of the vertical lines $x = a$, for $a = -1, -C, C, 1$ and the horizontal lines $y = b$, for $b = -1, -C, C, 1$. Find the plot of this grid under the mapping $w = Um$.</p> <p>8. Find a parametrization of the polygonal path $C = C_1 + C_2 + C_3$ from $-1 + i$ to $3 - i$, where C_1 is the line from: $-1 + i$ to -1, C_2 is the line from: -1 to $1 + i$ and C_3 is the line from $1 + i$ to $3 - i$. Make a plot of this path.</p> <p>9. Plot the line segment 'L' joining the point $A = 0$ to $B = 2 + tj$ and give an exact calculation of $\int_L z \, dz$.</p> <p>10. Plot the semicircle 'C' with radius 1 centered at $z = 2$ and evaluate the</p>	
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		<p>contour integral $\int_{C_1} z^2 dz$. 11. Show that $\int_{C_1} z^2 dz = \int_{C_2} z^2 dz = 4 + 29$ where C_1 is the line segment from $-1 - i$ to $3 + i$ and C_2 is the portion of the parabola $x = y^2 + 2y$ joining $-1 - i$ to $3 + i$. Make plots of two contours C_1 and C_2 joining $-1 - i$ to $3 + i$. 12. Use ML inequality to show that $\int_{C_1} z^2 dz \leq C$, where C is the straight line segment from 2 to $2 + i$. While solving, represent the distance from the point z to the points i and $-i$, respectively, i.e. $m - 9$ and $m + 9$ on the complex plane \mathbb{C}. 13. Show that $\int_{C_1} z^{1/2} dz = \int_{C_2} z^{1/2} dz$, where $z^{1/2}$ is the principal branch of the square root function and C is the line segment joining 4 to $8 + 6i$. Also plot the path of integration. 14. Find and plot three different Laurent series representations for the function $U_m = C + \frac{1}{z}$, involving powers of z. 15. Locate the poles of $U_m = \frac{1}{z^2 + 1}$ and specify their order. 16. Locate the zeros and poles of $U_m = \frac{1}{z^2 - 1}$ and determine their order. Also justify that $\text{Res}(g, 0) = 2 - \pi$. 17. Evaluate $\int_{C_1} \exp(z) dz$, where C_1 denotes the circle $\{z : z = 1\}$ with positive orientation. Similarly evaluate $\int_{C_2} \exp(z) dz$.</p>	
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Semester: V and VI

Course: DIFFERENTIAL EQUATIONS (B.SC. (PROG.) [42357501], NUMERICAL METHODS[42357618]

Course Code: 42357501, 42357618

S.No	Name of the Student	Project Title	Supervised by
1	List of the students mentioned below	Use of computer algebra systems (CAS), for example Mathematica/MATLAB/Maple/Maxima/ Scilab, etc., for developing the following programs: 1. Solution of first order differential equation. 2. Plotting of second order solution family of differential equation. 3. Plotting of third order solution family of differential equation. 4. Solution of differential equation by variation of parameter method. 5. Solution of systems of ordinary differential equations. 6. Solution of Cauchy problem for first order PDE. 7. Plotting the characteristics for the first order PDE. 8. Plot the integral surfaces of a given first order PDE with initial data.	Prof. Sunila Sharma, Dr. Monika Arora
2	List of the students mentioned below	Use of Computer Algebra System (CAS), for example MATLAB/Mathematica/Maple/Maxima/ Scilab etc., for developing the following Numerical Programs: 1. Bisection Method 2. Secant Method and Regula-Falsi Method 3. Newton-Raphson Method 4. Gaussian elimination method and Gauss-Jordan method 5. Jacobi Method and Gauss-Seidel Method	Dr. Jyoti Talwar, Mr. Manoj Rawal, Dr. Meetu Bhatia, Mohd. Sarik Idrisi



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		6. Lagrange interpolation and Newton interpolation 7. Trapezoidal and Simpson's rule. 8. Euler methods for solving first order initial value problems of ODE's.	
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Programme: B.A. Prog III Year

Semester: V and VI

Course: [62353506] TRANSPORTATION AND NETWORK FLOW PROBLEMS, [62353607] STATISTICAL SOFTWARE-R

Course Code: 62353506, 62353607

S.No	Name of the Student	Project Title	Supervised by
1	List of the students mentioned below	Use TORA/Excel spreadsheet to solve transportation problem, Assignment problem, Traveling salesperson problem, Shortest-route problem, Minimum spanning tree algorithm, Maximum flow model, CPM and PERT calculations	Dr. Rekha Gupta
2	List of the students mentioned below	Plotting in R: Box-whisker plots, Scatter plots, Pairs plots, Line charts, Pie charts, Cleveland dot charts, Bar charts; Copy and save graphics to other applications. Stem and leaf plot, Histograms, Density function and its plotting, The Shapiro–Wilk test for normality, The Kolmogorov-Smirnov test.	Dr. Rekha Gupta

Programme: VAC

Semester: I, II

Course: Vedic Mathematics-I

Course Code: 6967000020

S.No	Name of the Student	Project Title	Supervised by
1	List of the students mentioned below	• Conduct workshops under the supervision of the course teacher to	Dr. Shweta Gandhi Mr Mohit Machhal



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		<p>spread awareness on the utility of Vedic Mathematics.</p> <ul style="list-style-type: none">• Students are required to visit nearby retail shops/local vendors to purchase stationery/vegetables/bread and butter and use tricks of Vedic maths of addition and subtraction to calculate the amount to pay and receive the difference.• Students may share their experience with the class teacher in the form of audio video presentations of 15 minutes	

I semester

1	Aayushi Sharma	2023/35
2	Anjali	2023/115
3	Anjali	2023/116
4	Anjali	2023/120
5	Aadvika Patel	2023/6
6	Ankita Kumari	2023/143
7	Ankita Patwa	2023/144
8	Annu Yadav	2023/148
9	ANSHU	2023/161
10	Anuja Tiwari	2023/165
11	Anushkaa Jain	2023/185
12	Ayati Rohatgi	2023/243
13	Ayushi Singh	2023/256
14	Bhoomi Bajaj	2023/278



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15	Brahmi Patel	2023/292
16	Deepanjali Goswami	2023/316
17	Devyani Singh	2023/332
18	Dimple pareek	2023/347
19	Disha Gurjar	2023/351
20	Hema	2023/446
21	Himanshi Garg	2023/452
22	Iram Naaz	2023/461
23	ISHIKA RAJORIA	2023/474
24	Janvi	2023/494
25	Jasmeen kaur	2023/498
26	Jasveen Kaur	2023/500
27	Jigyasa Rana	2023/508
28	Kajal Verma	2023/526
29	Kanak Goyal	2023/534
30	KANCHAN KUMARI	2023/535
31	Karam Thoibithoi	2023/545
32	Kashish	2023/552
33	KHUSHAALI GROVER	2023/572
34	Khushi Kumari	2023/593
35	Khushi Kumari Rajbhar	2023/594
36	Khushi singh	2023/603
37	Khyati Srivastava	2023/609
38	kiran singh	2023/614



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39	Komal yadav	2023/630
40	Krishna Vashisht	2023/636
41	Laxmi	2023/662
42	Lovely Aggarwal	2023/671
43	Mahak	2023/680
44	Manjeeta	2023/701
45	Mansi	2023/709
46	Mansi	2023/710
47	Mary Lalhruaizeli	2023/724
48	Medha	2023/727
49	Monika Yadav	2023/757
50	Monika Meena	2023/760
51	Nachita yogi	2023/782
52	Nandini Agarwal	2023/794
53	Neelakshi	2023/807
54	NEHA	2023/813
55	Neha chaudhary	2023/816
56	Niharika Singh	2023/831
57	Palak Modi	2023/882
58	Palak Tak	2023/885
59	Pooja Meena	2023/916
60	Poonam tiwari	2023/918
61	Pragya Mishra	2023/936
62	Pratigya Mahala	2023/947



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63	Pratiksha Bhuyan	2023/949
64	Prisha	2023/966
65	Priya mishra	2023/976
66	Priyadarshani	2023/982
67	Priyalaxmi Nongmaithem	2023/985
68	Priyanka Kumari	2023/991
69	Priyanka Meena	2023/996
70	AANYA SINGH	
71	Priya Mittal	
72	Priyanshi	2023/1002
73	Raghavi Bhandari	2023/1011
74	Rashmi Kushwaha	2023/1026
75	Rashmi Rani	2023/1028
76	Reena	2023/1036
77	Ria Thokchom	2023/1041
78	Sakshi	2023/1104
79	Sanchi Bindlish	2023/1125
80	Sandhya Kumari	2023/1127
81	Sandhya kumari	2023/1128
82	SASWATI BORPHUKAN	2023/1153
83	Saumya pal	2023/1157
84	Shivani	2023/1192



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85	SHIVANI YADAV	2023/1195
86	Shivi Chauhan	2023/1197
87	Showna Sharma	2023/1199
88	Simran Chaudhary	2023/1257
89	Siya Srivastava	2023/1261
90	stanzin angmo	2023/1318
91	Subriti Mishra	2023/1323
92	Sweta Singh	2023/1367
93	Tanvi bansal	2023/1401
94	Tejasvi	2023/1409
95	Tina Nagpure	2023/1414
96	Vaidehi Kumar	2023/1444
97	Vaidushi Pandey	2023/1445
98	Vaishnavi	2023/1447
99	Vidushi Pandey	2023/1479
100	YASHIKA	2023/1503
101	Tsering Angmo	2023/1533
102	Sneha	2023/1571
103	Simran	2023/1576
104	HARSHITA JHA	2023/1590
105	AASTHA SURPIYA TOPPO	2023/1616
106	Nishi pal	2023/1623
107	Bhavya Rana	2023/1635
108	Ojaswani	2023/1664



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109	Bhawna	2023/276
110	Khyati Ahlawat	2022/1381
111	Anushka Rawat	2023/1643
112	Anshul	2023/1716
113	JASVEEN KAUR	2023/500
114	Samiti Sharma	2023/1755
115	Jigyasa Rana	2023/508
116	Sakshi Kumari	2023/1719
117	Deepika	2023/1607
118	Kajal chaudhary	2023/1678
119	Vanya Khurana	2023/1464
120	Palak Teotia	2023/1725

II Semester

1	Anushka Chauhan	2023/172
2	Tanishka Gupta	2023/1385
3	Rashmi Prabha	2023/1027
4	Kavya Jain	2023/566
5	Sanya Narang	2023/1148
6	Himani	2023/449
7	Srishti Verma	2023/1314
8	Anvi Chawla	2023/188



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9	Payal	2023/903
10	Putul kumari	2023/1008
11	Asha madhoki	2023/216
12	E Metna Subba	2023/379
13	Aditi Kumari Singh	2023/45
14	Aastha	2023/28
15	Vaishali Goel	2023/1446
16	Bhoomika	2023/280
17	Koyal Bagga	2023/632
18	Jyotsna Godara	2023/519
19	Manusmriti Mishra	2023/717
20	Gungun Singh	2023/417
21	Ishita	2023/477
22	Gunnavi Sally	2023/423
23	Diya Bamba	2023/370
24	Sneha Kumari	2023/1708



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25	Aachal rani	2023/04
26	Sneha	2023/1265
27	Ayushi Yadav	2023/258
28	Nihita Raj	2023/833
29	AADITI	2023/5
30	Toshi khandelwal	2023/1415
31	Garima	2023/401
32	Taniya Kaushik	2023/1391
33	Alka Agarwal	2023/78
34	Priyanka kumari	2023/994
35	Samiksha Gautam	2023/1120
36	Aditi	2023/40
37	MS BHUMIKA	2023/763
38	Aastha Yadav	2023/33
39	Kanchan Yadav	2023/536
40	SHREEPARNA SENGUPTA	2023/1203



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41	Bhawana joshi	2023/1652
42	Ayushi Agrawal	2023/249
43	Saloni Sharma	2023/1117
44	Bhargavi Mahto	2023/268
45	Taniya	2023/1701
46	Parul	2023/897
47	Sheetal	2023/1633
48	Anshika	2023/150
49	Prerna	2023/964
50	Ahintara.M	2023/673
51	Nikita Choudhary	2023/836
52	BHAVYAA JAIN	2023/274
53	Lisa Amrapali	2023/669
54	Maitreyee Atrey	2023/1665
55	Ekanshi Ojha	2023/382
56	Muskan Gupta	2023/773



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57	Laxmi	2023/661
58	Deepika Sharma	2023/322
59	Prakriti	2023/937
60	Suhaani Singh	2023/1326
61	Ayushi Yadav	2023/259
62	Vanshika Singh	2023/1461
63	Pallavi Priyadarshini Meher	2023/888
64	Akanksha Kumari	2023/62
65	Anjali	2023/121
66	Arunima Gulati	2023/207
67	Suhani	2023/1328
68	Vanshika Bansal	2023/1454
69	Aditi Tanya	2023/50
70	Vibha Sharma	2023/1473
71	Shreya Kumari	2023/1210
72	Rasha Garewal	2023/1023



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73	Aachal rani	2023/04
74	Km Vandana Sharma	2023/619
75	Priyanka Ashke	2023/990
76	Muskan	2023/770
77	Kashish Kumari	2023/553
78	Tsering Dolkar	2023/1421

Programme: VAC

Semester: II, III

Course: Vedic Mathematics-II

Course Code: 6967006001

S.No	Name of the Student	Project Title	Supervised by
1	List of students mentioned below	Application of Vedic Maths through various Sutras.	Dr. Durvesh Verma

II Semester

1	Anjali	2023/116
2	Medha	2023/727
3	Prisha	2023/966
4	Anjali	2023/115
5	Showna Sharma	2023/1199
6	Siya Srivastava	2023/1261
7	Yashika	2023/1503



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8	Ria Thokchom	2023/1041
9	Palak Modi	2023/882
10	Mansi	2023/709
11	Karam Thoibithoi	2023/545
12	Anshul	2023/1716
13	Pratiksha Bhuyan	2023/949
14	Sneha	2023/1571
15	Sweta Singh	2023/1367
16	SASWATI BORPHUKA N	2023/1153
17	Deepanjali Goswami	2023/316
18	Tejasvi	2023/1409
19	Priyalaxmi Nongmaithem	2023/985
20	Aanya Singh	2023/1620
21	Tina Nagpure	2023/1414
22	Laxmi	2023/662
23	Nishi Pal	2023/1623
24	Sakshi kumari	2023/1719
25	MARY LALHRUAIZ ELI	2023/724
26	Rajshree Pukhrambam	2023/1584
27	Janvi	2023/494



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28	Monika Meena	2023/760
29	Ankita Kumari	2023/143
30	Sandhya kumari	2023/1128
31	Tanvi Bansal	2023/1401
32	Ankita Patwa	2023/144
33	Pratigya Mahala	2023/947
34	Sakshi	2023/1104
35	Priyanka kumari	2023/991
36	Annu Yadav	2023/148
37	Anuja Tiwari	2023/165
38	Bhoomi Bajaj	2023/278
39	Anshu	2023/161
40	Hema	2023/446
41	Deepika	2023/1607
42	Kiran Singh	2023/614
43	Palak Teotia	2023/1725
44	Reena	2023/1036
45	Ayushi Singh	2023/256
46	NEHA	2023/813
47	Sandhya Kumari	2023/1127
48	Khushi Kumari	2023/593
49	Aadvika Patel	2023/6



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50	Niharika Singh	2023/831
51	Khushaali Grover	2023/572
52	Rashmi Rani	2023/1028
53	Poonam tiwari	2023/918
54	Neha chaudhary	2023/816
55	Jasmeen kaur	2023/498
56	Aayushi Sharma	2023/35
57	Dimple Pareek	2023/347
58	Himanshi Garg	2023/452
59	Monika	2023/757
60	Kajal Verma	2023/526
61	Rashmi Kushwaha	2023/1026
62	Palak Tak	2023/885
63	Anushkaa Jain	2023/185
64	Harshita Jha	2023/1590
65	Priyanshi	2023/1002
66	Jigyasa Rana	2023/508
67	Lovely Aggarwal	2023/671

III Semester

1	Isha Raj	2022/426
2	Rupanshi Pal	2022/1570



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3	AISWARYA S SEKHA R	2022/58
4	Anushka	2022/171
5	Geetanjali	2022/364
6	Muskan Sigroha	2022/681
7	Aastha	2022/22
8	Subhankari Mallick	2022/1167
9	Agrima	2022/51
10	Huidrom Jheelina	2022/412
11	Ishita	2022/432
12	Akanksha Tiwari	2022/69
13	Shanky	2022/1572
14	Aditi Rawat	2022/44
15	Manshi Nehra	2022/617
16	Grace Lamnei hat Kipgen	2022/369
17	Shruti Prashad	2022/1098
18	Ekta	2022/1578



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19	Sudiksha Badhani	2022/1170
20	Khushi	2022/515
21	Aamna Jalal	2022/7
22	Radhika Singh	2022/883
23	Aastha Sharma	2022/25
24	Himani	2022/400
25	Akanksha Dubey	2022/64
26	Fidha B Usman	2022/347
27	Mansi Kushwa ha	2022/620
28	Reeta Pal	2022/903
29	Mehak rani	2022/640
30	NISHA KUMARI	2022/743
31	Ananya Gupta	2022/105
32	Preksha Jain	2022/841
33	Kalpana Choudh ary	2022/469
34	Sameeksha Agarwal	2022/988



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35	Vartika Rawat	2022/1292
36	Anisha	2022/119
37	Khushi jain	2022/525
38	Kanika Panwar	2022/483
39	Kusum	2022/577
40	Simran Tomar	2022/1115
41	Anshika Jindal	2022/159

Programme: VAC

Semester: IV

Course: Vedic Mathematics-III

Course Code: 6967007001

S.No	Name of the Student	Project Title	Supervised by
1	List of students mentioned below	Application of Vedic Maths through various Sutras and Upsutras.	Dr. Shweta Gandhi

1	Ananya Gupta	2022/105
2	Ishita	2022/432
3	Geetanjali	2022/364
4	Agrima	2022/51
5	Alka Rani	2022/87
6	Khushi jain	2022/525
7	Khushi	2022/515



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8	Anushka	2022/171
9	Himani	2022/400
10	AISWARYA S SEKHA R	2022/58
11	Rupanshi pal	2022/1570
12	NISHA KUMARI	2022/743
13	Yashica aggarw al	2022/1317
14	Yutika Singh	2022/1325
15	Shruti Prashad	2022/1098
16	Isha Raj	2022/426
17	Huidrom Jheelin a	2022/412
18	Payal Kumari	2022/782
19	Ekta	2022/1578
20	Varsha singh	2022/1290
21	Anshika Jindal	2022/159
22	Reeta Pal	2022/903
23	Kalpana Choudh ary	2022/469
24	Kanika Panwar	2022/483
25	Suhana	2022/1171
26	Kusum	2022/577



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Programme: SEC

Semester: I

Course: IT Skills and Data Analysis -I

Course Code: 312600001

S.No	Name of the Student	Project Title	Supervised by
1	List of students mentioned below	Introduction of Measures of Central Tendency: Mean, Median, Mode through appropriate examples explaining the use of each one of them in various situations. Understanding the concept of Weighted mean; Measures of dispersion: Range, Variance, Standard deviation; Visualizing the measures of central tendency and dispersion through frequency curve and histogram. Understanding Quartiles, deciles and percentiles numerically.	Dr. Shweta Gandhi, Mr. Mohit Kumar Macchal, Dr. Anita Kumari Rao

I Semester

1	Rama Vivek Gulavani	2023/02
2	Aastha Panda	2023/0030
3	Ananya Jaggi	2023/0091
4	Bhumika rawat	2023/285
5	Palwi	2023/890
6	Priyadarshini Meena	2023/983
7	Priyanka kumari	2023/991
8	RIYA KOUL	2023/1077
9	Suhaani Singh	2023/1326
10	Suryanshi Pathak	2023/1355
11	Urvika Mehra	2023/1438
12	YANA GUNWANT	2023/1496
13	Jaya Gayathri Chinthapally	2023/1524



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14	Vaidehi Singhal	2023/1648
15	Kaashvi Piplani	2023/1694
16	Poonam tiwari	2023/918
17	Silvia Nath	2023/1247
18	Kaashvi Piplani	2023/521
19	Kajal	2023/523
20	Mann Sharma	2023/703
21	Vagisha Prakash	2023/1441
22	Manju	2023/702
23	Aditi Yadav	2023/55
25	Gunjan Singh	2023/421
26	SOUMADRI MUKHERJEE	2023/1301
27	Tsering Nordon	2023/1422
28	Tejaswita dalal	2023/1572
29	Arisha Baliyan	2023/1551
30	Aadya Agarwal	2023/7
31	Anjali	2023/116
32	Annu Yadav	2023/148
33	Bomrik Romin	2023/290
34	Gungun Singh	2023/417
35	Hema	2023/446
36	Janika Shanker	2023/492
37	Kanchan Yadav	2023/536
38	Khushi Pawar	2023/598
39	Laxmi	2023/662
40	Niharika Singh	2023/831
41	Priyadarshani	2023/982
42	Priyalaxmi Nongmaithem	2023/985



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43	Priyanshi	2023/1002
44	Rashmi Kushwaha	2023/1026
45	Reedim Gangwar	2023/1033
46	Ria Thokchom	2023/1041
47	Sakshi	2023/1104
48	Saziya Fatima	2023/1160
49	SHIVANI YADAV	2023/1195
50	Siya Srivastava	2023/1261
51	Sooryanshi	2023/1300
52	Tanishka gupta	2023/1385
53	Tejasvi	2023/1409
54	YASHIKA	2023/1503
55	MEHAK YADAV	2023/1594
56	Ojaswani	2023/1664
57	Shalini Rawat	2023/1718
58	Charvi Joshi	2023/298
59	Gurbani Mahajan	2023/425
60	Km Vandana Sharma	2023/619
61	Mansi	2023/709
62	Ojaswini Upmanyu	2023/872
63	Pratigya Mahala	2023/947
64	Richa kaushik	2023/1042
65	SASWATI BORPHUKAN	2023/1153
66	Sonia	2023/1296
67	SRIJITA SANA	2023/1309
68	Vanshika Dogra	2023/1456
69	Divya Dhaka	2023/1568
70	Apala	2023/189



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71	PRANAVI RAWAT	2023/939
72	Simran Chaudhary	2023/1257
73	Asveer Kaur Kalha	2023/233
74	Sangya Chaudhary	2023/1768
75	Aashi Sharma	2023/1614

II Semester

1	Parul Meena	2023/899
2	Shruti Karthik	2023/1228
3	Sweta Singh	2023/1367
4	Sneha	2023/1571
5	Nishi Pal	2023/1623
6	Sakshi kumari	2023/1719
7	Payal	2023/903
8	Kanika	2023/538
9	Prisha	2023/966
10	Anjali	2023/115
11	E Metna Subba	2023/379
12	Aditi Kumari Singh	2023/45
13	Karthika Jayakumar	2023/547
14	Akanksha kumari sahu	2023/63
15	Tamanna Gupta	2023/1377
16	Saumya pal	2023/1157
17	SHREEPARNA SENGUPTA	2023/1203



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18	Shradha Jain	2023/1200
19	Ishita	2023/477
20	Vidhi Aggarwal	2023/1475
21	Rakhi Singh	2023/1016
22	Ankita Patwa	2023/144
23	Nikita Tewari	2023/840
24	Sonakshi	2023/1289
25	Kashish	2023/552
26	Prisha Chhikara	2023/967
27	Anshul	2023/1716
28	Anvi Chawla	2023/188
29	Ankita Kumari	2023/143
30	Bhoomi Bajaj	2023/278
31	Prachi	2023/923
32	Bhumika	2023/281
33	Sonam Sharma	2023/1293
34	Anshu	2023/161
35	Kalpana kumari	2023/527
36	Susama Khan	2023/1356
37	Deepika	2023/1607
38	Kiran Singh	2023/614
39	Ayushi Gupta	2023/251
40	Rahnuma Firdous	2023/1540
41	Yaashi Shah	2023/1494
42	Bhawana joshi	2023/1652
43	Mubashhira Naheed	2023/765



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44	Tanushree Shukla	2023/1709
45	Roshani Yadav	2023/1084
46	Ayushi Singh	2023/256
47	Shefali Srivastava	2023/1181
48	Mahak	2023/679
49	Tanisha Singh	2023/1382
50	Shreya Puri	2023/1213
51	Mary Lalhruaizeli	2023/724
52	Taniya	2023/1701
53	Sheetal	2023/1633
54	Khushi Kumari	2023/593
55	Sanshita suman	2023/1143
56	Reena	2023/1036
57	Himani Malhotra	2023/450
58	Aadvika Patel	2023/6
59	Nachita yogi	2023/782
60	Nikita Choudhary	2023/836
61	Aakriti	2023/12
62	Maitreyee Atrey	2023/1665
63	Amisha Gupta	2023/1740
64	Naina Sanjeev Tibrewal	2023/785
65	Muskan Gupta	2023/773
66	Mansi Rawat	2023/715
67	Neha Sisodia	2023/819
68	Kavita	2023/1543



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69	Rashmi Rani	2023/1028
70	Sneha Prakash	2023/1275
71	Aryanshika Chugh	2023/1641
72	Anushka Singh	2023/180
73	Prakriti	2023/937
74	Devananda S	2023/327
75	Vibhavari	2023/1474
76	Kanishka	2023/542
77	Saumya Gupta	2023/1156
78	Anjali Kushwaha	2023/1617
79	Divya Jyoti Semwal	2023/360
80	Poonam Yadav	2023/1700
81	Anvesha Garg	2023/1764
82	Usheer Singh Masaun	2023/1439
83	Krati Saxena	2023/633
84	Ashlesha Sharma	2023/1605
85	Monika	2023/757
86	Tina Nagpure	2023/1414
87	Kajal Verma	2023/526
88	Priyanshi	2023/1004
89	Shreya Kumari	2023/1210
90	Rasha Garewal	2023/1023
91	Pratishthaa Koul	2023/954



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92	Ritika Singh	2023/1065
93	Khushaali Grover	2023/572
94	Arunima Gulati	2023/207
95	Prachi Kumari	2023/1765
96	Shruti Gupta	2023/1227
97	Anshika Kumari	2023/152
98	Harshita Arora	2023/441
99	Roshni kumari	2023/1088
100	Shivani	2023/1192
101	Palak	2023/876
102	Medha	2023/727
103	Kanak Goyal	2023/534
104	Bomrik Romin	2023/290
105	Nihita Raj	2023/833

IV Semester

1	Ananya Gupta	2022/105
2	Geetanjali	2022/364
3	Alka Rani	2022/87
4	Khushi	2022/515
5	Muskan	2022/663
6	Barkha	2022/224
7	Kiran	2022/540
8	Akshita Seth	2022/80



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9	Pratishtha Nanda	2022/832
10	Tanvi	2022/1227
11	Srishti Priya	2022/1161
12	Sneha Sharma	2022/1566
13	Purva varshney	2022/872
14	Varsha Singh	2022/1290
15	Rashi Gupta	2022/893
16	Patel Khushi Suresh bhai	2022/778
17	Nandini Prasad	2022/701
18	Vanshika Vij	2022/1284
19	Pooja Mina	2022/792
20	Priya Rani	2022/1623
21	Sankhya rani	2022/1011
22	Saachi Garg	2022/1649
23	Vibhati Singh Verma	2022/1297
24	Subhankari Mallick	2022/1167
25	Yuvika	2022/1326
26	Monika	2022/654
27	Aakriti Verma	2022/6
28	Nandani Kumari	2022/694



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29	Abhilipsa Priyada rshini Patra	2022/29
30	Divya Kumari	2022/1372
31	Nandini Ajay Choube y	2022/697
32	Aarju	2022/11
33	Huidrom Jheelin a	2022/412
34	Yashika Awana	2022/1318
35	Kanishka Chunda wat	2022/486
36	Rishika Aggarw al	2022/928
37	Megha Jayan	2022/635
38	Amina Anush	2022/91
39	Fathima Irfana P I	2022/345
40	Fidha B Usman	2022/347
41	Anisha	2022/119
42	Maria Davis	2022/628
43	Sunayana Singh	2022/1525
44	Anushka Yadav	2022/179
45	Akshita pal	2022/79
46	Mohini	2022/648
47	Bhavika Yadav	2022/233



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48	Riti Sandhu	2022/932
49	Shreya Gusain	2022/1085
50	Agrima	2022/51
51	Vrinda Rastogi	2022/1308
52	Anukrati Singh	2022/169
53	Priyanshi Raj	2022/864
54	Yashi dinkar	2022/1316
55	Princy Shilshi	2022/847
56	Diksha Gupta	2022/302
57	Aastha	2022/26
58	Pratibha Prakash	2022/830
59	Stuti Singh	2022/1165
60	Kirti Tomar	2022/547
61	Anasab Atiq	2022/112
62	Khushi	2022/514
63	Nimrat Kaur Chahal	2022/740
64	eshika goyal	2022/342
65	Varsha Meena	2022/1287
66	Shivani Yadav	2022/1617
67	Himanshi Thakur	2022/408
68	Aadya Vidhatri	2022/1553
69	Anushka Srivasta v	2022/178



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UNIVERSITY OF DELHI

Programme: SEC
Semester: II
Course: IT Skills and Data Analysis -II
Course Code: 312600001

S.No	Name of the Student	Project Title	Supervised by
1	List of students mentioned below	Correlation analysis : measure and interpretation of correlation coefficient, Hypotheses, model specification and testing, Bi-variate regression analysis: method of least squares, curve of best fit as a model for prediction	Dr. Sneha Mavi

1	Anjali	2023/116
2	Siya Srivastava	2023/1261
3	Yashika	2023/1503
4	Sooryanshi	2023/1300
5	Janika Shanker	2023/492
6	Priyalaxmi Nongmaithem	2023/985
7	Laxmi	2023/662
8	Reedim Gangwar	2023/1033
9	Reedim Gangwar	2023/1033
10	Mansi	2023/709
11	GUNGUN SINGH	2023/417
12	Sonia	2023/1296
13	Divya Dhaka	2023/1568
14	Priyanka kumari	2023/991



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UNIVERSITY OF DELHI

15	Palwi	2023/890
16	Annu Yadav	2023/148
17	Aditi Yadav	2023/55
18	Sakshi	2023/1104
19	Silvia Nath	2023/1247
20	Priyadarshini Meena	2023/983
21	Asveer Kaur Kalha	2023/233
22	Hema	2023/446
23	Suryanshi Pathak	2023/1355
24	SOUMADRI MUKHERJEE	2023/1301
25	Ria Thokchom	2023/1041
26	Km Vandana Sharma	2023/619
27	Priyadarshani	2023/982
28	Kanchan Yadav	2023/536
29	Shalini Rawat	2023/1718
30	Niharika Singh	2023/831
31	Rashmi Kushwaha	2023/1026
32	Urvika Mehra	2023/1438
33	Priyanshi	2023/1002
34	Kajal	2023/523
35	Tejsvi	2023/1409

Part A.2

Students undertaking project work/field work/internship (beyond the requirements of coursework)



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S.No	Project Title	Students	Mentors
1	Homomorphic Encryption Schemes under MS Seal Library	<ul style="list-style-type: none"> Neha Baliyan - B.Sc. (H) Mathematics, Sem VI, Miranda House Tanuja Yadav- B.Sc. Physical Science with Computer Science, Sem VI, Miranda House 	Dr. Monika Arora Dr. Shweta Gandhi Dr. Rekha Gupta Mohd. Sarik Idrisi Dr. Anita Rao Dr. Harsha Kharbanda Mr. Mohit Macchal
2	In-Depth Analysis of Fractals	<ul style="list-style-type: none"> Pragya Nidhi – B.Sc.(H) Mathematics, Sem IV, Miranda House Kanishka Sharma- B.Sc.(H) Mathematics, Sem IV, Miranda House Chhavi- B.Sc.(H) Mathematics, Sem IV, Miranda House Anushka- B.Sc.(H) Mathematics, Sem IV, Miranda House 	
3	Graphs in Network Analysis	<ul style="list-style-type: none"> Sejal Kumari- B.Sc.(H) Mathematics, Sem II, Miranda House Suhana- B.Sc.(H) Mathematics, Sem II, Miranda House Kusum- B.Sc.(H) Mathematics, Sem II, Miranda House 	
4	House Price Prediction using Regression Model	<ul style="list-style-type: none"> Priya Kumari- B.Sc.(H) Mathematics, Sem IV, Vivekananda College Nivedita Yadav B.Sc.(H) Mathematics, Sem IV, Miranda House Bhavana Verma- B.Sc.(H) Mathematics, Sem IV, Miranda House Khushi Agrahari- B.Sc. Prog, Sem IV, Zakir Hussian College 	



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S.No	Name of the student	Internship Details	Certificate/Joining Letter
1.	Cheshta Upreti	Mathematics Quality Check Expert at Cloudbird Digital (Internship)	
2.	Jasbina Quadri	Vice Chancellor Internship 2023-24 (Finance Office Intern)	
3.	Khushi jain	Vice Chancellor Internship 2023-24 (Dean Students Welfare Office Intern)	
4.	Akanksha Dubey	Vice Chancellor Internship 2023-24 (Department of Mathematics)	



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5.	Himani	R&D intern at kalp guru	
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