

Central University of Himachal Pradesh

[Established under Central Universities Act 2009]

PO Box. 21, Dharamshala, District Kangra-176215, Himachal Pradesh

Department of Mathematics

Minutes of the Fifth meeting of Board of Studies (BOS) held on 16th May, 2018 at 4:00

P.M.

The Fifth meeting of BOS of the Department of Mathematics was held on 16th of May, 2018 at Temporary Academic Block (TAB), Shahpur at 04:00 P.M.

The following were present:

1. Prof. I.V. Malhan, Chairman & Convenor
2. Dr. Jyoti Prakash Sharma, External Expert, HPU
3. Prof. Roshan Lal Sharma, Dean School of Humanities & Languages, CUHP
4. Dr. Ravinder Singh, Member, Department of Mathematics, CUHP

The decisions taken on various items of Agenda and record of discussions held are as under

Item-BOS-5.1: To confirm the minutes of the Fourth Meetings of BOS of the Department of Mathematics held on 15th June 2016.

Decision: The minutes of the Fourth Meeting of the BOS of the Department of Mathematics were approved.

Item-BOS-5.2: To ratify the revised course of study taken by the Department to introduce the new pattern of courses as per UGC guidelines (Annexure-1).

Decision: The BOS approved the Item BOS-5.2.

Item-BOS-5.3: To approve the Synopsis of the following students (Annexure-3 & 4):

S. No.	Name of Student with Roll No.	Name of Supervisor	Area of Research	Date of Joining of student for Ph.D.
1.	Ms. Kanika Sood CUHP15RDMATH01	Dr. Sachin Kumar Srivastava	Differential Geometry	2 nd Dec. 2015
2.	Mr. Ravinder Kumar, CUHP15RDMATH02	Dr. Rakesh Kumar	Fluid Mechanics	4 th Nov. 2015
3.	Ms. Reena Koundal, CUHP15RDMATH03	Dr. Rakesh Kumar	Fractional Differential Equations	2 nd Dec. 2015

Decision: The BOS members unanimously approved the synopsis of Kanika Sood, Ravinder Kumar and Reena Jindal. Professor Jyoti Prakash exhorted that the work done till date and published could also be appended to the synopsis.

Item-BOS-4.5: To approve the faculty members to supervise the Ph.D. work of the following scholars:

No.	Name of Student with Roll No.	Name of Supervisor	Area of Research	Date of Joining of student for Ph.D.
1.	Mr. Anuj Kumar CUHP17RDMATH01	Dr. Sachin Kumar Srivastava	Differential Geometry	13 th Nov. 2017
2.	Ms. Mayrika Dhiman CUHP17RDMATH02	Dr. Sachin Kumar Srivastava	Differential Geometry	13 th Nov. 2017
3.	Mr. Manoj Kumar CUHP17RDMATH03	Dr. Ravinder Singh	Algebra	10 th Nov. 2017

Decision: The BOS members unanimously approved the respective faculty members to supervise the Ph.D. work of Anuj Kumar, Mayrika Dhiman and Manoj Kumar.

Item-BOS-5.5: Moving the course MTH 606 Principles of Mathematics and Techniques (Credits 04) from the category Core Open Courses to the category Skill Development and change its code and credits to MTH414 (Credits 02) respectively.

Decision: The BOS members approved the moving of the course MTH 606 Principles of Mathematics and Techniques (Credits 04) from the category Core Open Courses to the category Skill Development but suggested that its code and credits should not be altered.

Items-BOS-5.6-BOS-5.10 Changing the name of the courses as listed in the agenda as Items BOS-5.6-BOS-5.10.

Decision: The BOS members suggested that name of the courses as listed in the agenda as Items BOS-5.6-BOS-5.10, should not be altered.

Items-BOS-5.11-BOS-5.13: Removing the courses as listed in the agenda as Items BOS-5.11-BOS-5.13.

Decision: The BOS members suggested that instead of dropping the courses mentioned in the Items BOS-5.11-BOS-5.13 these courses can be relegated to the Comprehensive Courses list of the department.

Items BOS-5.14-BOS-5.22: Introducing new courses as listed in the agenda as Items Items BOS-5.14-BOS-5.22.

Decision: The BOS approved the Items BOS-5.14 to BOS-5.22

Item-BOS-5.23-BOS5.24 To approve the list of external examiners and experts for teaching courses in workshop mode (Annexure-5.6).

Decision: The BOS approved the Items BOS-5.23 and BOS-5.24.

Item-BOS-5.25 To adopt UGC (Credit Framework for for Online Learning Course through SWAYAM) regulation 2016, for course registration, preferably selecting if required, the need based courses that may augment the requisite skill of learners.

Decision: The BOS approved the item BOS-5.25.

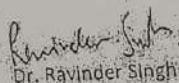
Item-BOS-5.6: Any other item with the permission of the chair.

Decision: None of the members proposed any item for discussion and hence no item was taken up.

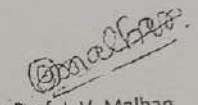
The meeting terminated with a vote of thanks to the chair.


Dr. J. P. Sharma,

Prof. Roshan Lal Sharma


Dr. Ravinder Singh

(Chairman & Convenor BOS, DoM)


Prof. I. V. Malhan

Copy to:

1. All the members of BOS, Department of Mathematics for approval.
2. The Registrar & Finance Officer, CUHP, Camp Office Dharamshala for Information and Record.
3. P.S. to Vice-Chancellor for Information of Hon'ble Vice-Chancellor

Annexure-II

Course Code: MTH 601

Course Name: Research Methodology

Credits Equivalent: 04 Credits (One credit is equivalent to 10 hours of lectures / organised classroom activity / contact hours; 5 hours of laboratory work / practical / field work / Tutorial / teacher-led activity and 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/ projects/dissertation/thesis; seminars, etc.)

Course Objective: The purpose of this course is to develop a research orientation among the PhD Students of Mathematics and to acquaint them with the Fundamentals of Research methods, scientific writings and Research Tools.

Attendance Requirements:

Students are expected to attend all lectures in order to be able to fully benefit from the course. A minimum of 75% attendance is a must failing which a student may not be permitted to appear in examination.

Evaluation Criteria:

1. Mid Term Examination: 25%
2. End Term Examination: 50%
3. Counselling, Activities and Tutorials (CAT): 25%

Assignment	15%
Class participation	5%
Class tests	5%

Course Contents:

Unit I: Fundamentals of Research:

Objectives, Motivation, General Characteristics, Criterion of good research and Literature Review. **(15 Hours)**

Unit II: Mathematics and its History, Identification and Evaluation of Research Problems. **(15 Hours)**

Unit III: Scientific Writing: Writing a survey article, research paper, survey article and thesis writing. **(15 Hours)**

Unit IV: Research Tools: LaTeX, Beamer, Reference Manager like Zotero & Mendeley, Plagiarism detection software. **(15 Hours)**

References:

1. C.R. Kothari, **Research Methodology** Methods & Techniques, Second Edition, New Age International publisher, 2004.
2. J. Stillwell, **Mathematics and its History**, 3rd Edition, Springer, 2010.
3. N. E. Steenrod, P. R. Halmos, M. M. Schiffer & J. A. Dieudonné, **How to Write Mathematics**, American Mathematical Society, 1973.
4. N. J. Higham, **Handbook of Writing for the Mathematical Sciences**, 2nd edition, Society for Industrial and Applied Mathematics, 1998.
5. D. E. Knuth, T. Larrabee & P. M. Roberts, **Mathematical Writing**, Mathematical Association of America, 1989.
6. L. Lamport, **LaTeX, a Document Preparation System**, Pearson, 2008.
7. M. Goossens, F. Mittelbach, S. Rahtz, D. Roegel & H. Voss, **The LaTeX Graphics Companion**, Addison-Wesley, 2008.
8. F. Mittelbach, M. Goossens, J. Braams, D. Carlisle & C. Rowley, **The LaTeX Companion** (Tools and Techniques for Computer Typesetting) 2nd Edition, Addison-Wesley Professional, 2004.
9. T. Tantau, **The BEAMER class: User Guide** for version 3.49, 12th Media Services, 2016.
10. N. R. Glassman, **Citation Management Tools: A Practical Guide for Librarians**, Rowman & Littlefield, 2018.



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Temporary Academic Block, Shahpur, Distt. Kangra (HP) - 176206

Website : www.cuhimachal.ac.in

SRINIVASA RAMANUJAN DEPARTMENT OF MATHEMATICS

Minutes of the SIXTH meeting of Board of Studies (BOS) held on 28th October, 2020 at 11:00 AM

The SIXTH meeting of BOS of the Srinivasa Ramanujan Department of Mathematics was held on 28th October, 2020 in online mode at Temporary Academic Block, Shahpur at 11:00AM.

The following were present:

1. Prof. Rakesh Kumar, Chairman & Convenor
2. Dr. Pawan Kumar Sharma, External Expert, NIT Hamirpur
3. Prof. Jyoti Prakash, External Expert, HPU Shimla
4. Prof. Hum Chand, Head, Department of Physics & Astronomical Science, CUHP
5. Dr. Rajender Kumar, Head, Department of Chemistry & Chemical Science, CUHP
6. Dr. Sachin Kumar Srinivasa, Member, Srinivasa Ramanujan Department of Mathematics, CUHP
7. Dr. Pankaj Kumar, Dean's Nominee, Srinivasa Ramanujan Department of Mathematics, CUHP

The decisions taken on various items of Agenda and record of discussions held are as under:

Item-BOS 6.1: To confirm the minutes of the 5th Meetings of BOS of the Department of Mathematics held on 16th May 2018 (Annexure I).

Decision: The minutes of the Fifth Meeting of the BOS of Srinivasa Ramanujan Department of Mathematics were approved.

Minutes of the 6th meeting of BOS of Srinivasa Ramanujan Department of Mathematics held on 28th October 2020

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Item-BOS 6.2: To approve the Research Methodology course (Course Code MTH 601) for the scholars of Srinivasa Ramanujan Department of Mathematics (Annexure-II).

Decision: The BOS approved the Item **BOS-6.2**.

Item-BOS 6.3: To approve the course "Research and Publication Ethics (RPE)" for PhD students (Annexure-IIIA). As per D.O. No. F.1-1/2018(Journal/CARE), December 2019, UGC approved two Credit Course for awareness about publication ethics and publication misconducts entitled "Research and Publication Ethics (RPE)" to be made compulsory for all PhD students for coursework (Annexure-IIIB).

Decision: The BOS approved the Item **BOS-6.3**.

Item-BOS-6.4: To approve the Synopsis of the following students (Annexure-IV & V):

S. No.	Name of Student with Roll No.	Name of Supervisor	Area of Research	Date of Joining of student for Ph.D.
1	Anuj Kumar CUHP17RDMATH01	Dr. Sachin Kumar Srivastava	Differential Geometry	13.11.2017
2	Mayrika Dhiman CUHP17RDMATH02	Dr. Sachin Kumar Srivastava	Differential Geometry	13.11.2017

Minutes of the 6th meeting of BOS of Srinivasa Ramanujan Department of Mathematics held on 28th October 2020

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Decision: The BOS members unanimously approved the synopsis of Anuj Kumar and Mayrika Dhiman.

Item-BOS-6.5: To approve the faculty member to Supervise research work of the following scholar:

S. No.	Name of Student with Roll No.	Name of Supervisor	Area of Research	Date of Joining of student for Ph.D.
1	Shivani Aeri CUHP20RDMATH01	Dr. Rakesh Kumar	Numerical Analysis	05.08.2020

Decision: The BOS members unanimously approved the respective faculty member to supervise the Ph.D. work of Shivani Aeri.

Item-BOS-6.6: To approve the revised course structure of M.Sc. Mathematics (Annexure VI).

Decision: The BOS approved the Item BOS-6.6.

Item-BOS-6.7: To approve the list of courses for Ph.D. course work in mathematics (Annexure VII).

Decision: The BOS approved the Item BOS-6.7.

Minutes of the 6th meeting of BOS of Srinivasa Ramanujan Department of Mathematics held on 28th October 2020

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Item-BOS-6.8: To report and recommend the Research Advisory Committee (RAC) (previously named as Research Progress Monitoring Committee (RPMC)) constituted for the Research Scholars in Research Degree (RD) Programme in Mathematics during the year 2017, 2018 2019 & 2020 to the School Board.

As per CUHP Ordinance No. 42, Clause 9, The Research Advisory Committee for each PhD scholar shall be formulated to monitor the research work / progress of the research degree students enrolled in the department.

The Research Advisory Committee (RAC) shall comprise the research supervisor of the PhD student who shall be the convener of the committee, Head of the Department / Director of the Centre who shall be the ex-officio chairman, and at least one subject expert nominated by the Head/Director upon the recommendation of the concerned supervisor.

Research Advisory Committee (RAC) for each student was formulated and notified for each student of both the academic sessions (2015, 2017, 2018 & 2020). The details of each RAC are placed before the BoS for recommendation to School Board.

S. No.	Name of the RD Student & Enrolment Number	Research Advisory Committee
1	Tanya Sharma CUHP18RDMATH01	1. Head of Department (Ex-Officio Chairman) 2. Dr. Rakesh Kumar (Convener) 3. Dr. Pankaj Kumar (Subject Expert)
2	Shivani Aeri CUHP20RDMATH01	1. Head of Department (Ex-Officio Chairman) 2. Dr. Rakesh Kumar (Convener) 3. Dr. S. K. Srivastava (Subject Expert)
3	Kanika Sood	1. Head of Department (Ex-Officio

Minutes of the 6th meeting of BOS of Srinivasa Ramanujan Department of Mathematics held on 28th October 2020

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	CUHP15RDMATH01	Chairman) 2. Dr. S. K. Srivastava (Convener) 3. Dr. Pankaj Kumar (Subject Expert)
4	Anuj Kumar CUHP17RDMA1H01	1. Head of Department (Ex-Officio Chairman) 2. Dr. S. K. Srivastava (Convener) 3. Dr. Pankaj Kumar (Subject Expert)
5	Mayrika Dhiman CUHP17RDMATH02	1. Head of Department (Ex-Officio Chairman) 2. Dr. S. K. Srivastava (Convener) 3. Dr. Pankaj Kumar (Subject Expert)
6	Ravinder Kumar CUHP15RDMATH02	1. Head of Department (Ex-Officio Chairman) 2. Dr. Rakesh Kumar (Convener) 3. Dr. Pankaj Kumar (Subject Expert)
7	Reena Koundal CUHP15RDMATH03	1. Head of Department (Ex-Officio Chairman) 2. Dr. Rakesh Kumar (Convener) 3. Dr. S. K. Srivastava (Subject Expert)

Decision: The BOS approved the Item BOS-6.8.

Item-BOS-6.9: Any other item from the permission of the Chair.

Decision: None of the members proposed any item for discussion and hence no item was taken up.

The meeting terminated with a vote of thanks to all the members of BOS.

Minutes of the 6th meeting of BOS of Srinivasa Ramanujan Department of Mathematics held on 28th October 2020

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H. Chandra

Rojendra
Pankaj Kumar

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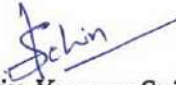
Temporary Academic Block, Shahpur, Distt. Kangra (HP) - 176206
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Dr. Pawan Kumar Sharma


Prof. Jyoti Prakash


Prof. Hum Chand


Dr. Rajender Kumar


Dr. Sachin Kumar Srivastava


Dr. Pankaj Kumar


Prof. Rakesh Kumar

Copy to:

1. All the members of BOS, Srinivasa Ramanujan Department of Mathematics for approval.
2. The Coordinator TAB-Shahpur for Information and Record.
3. The Registrar, Camp Office Dharamshala for information and Record.
4. The Finance Officer, Camp Office Dharamshala for information and Record.
5. The Controller of Examination (CoE), Camp Office Dharamshala for information and Record.
6. P.S. to Vice-Chancellor for Information of Hon'ble Vice-Chancellor.

Minutes of the 6th meeting of BOS of Srinivasa Ramanujan Department of Mathematics held on 28th October 2020

Proposed structure of courses (Revised) to be offered in the Srinivasa Ramanujan Department of Mathematics (M. Sc. students) as per new Choice Based Credit System (CBCS)

CORE COMPULSORY COURSES
(40 Credits)

Sr. No.	Course Code	Course Name	Credits	Pre-requisite/Remarks
1.	IAM 401	Complex Analysis	4	
2.	MTH 401	Ordinary Differential Equations	4	
3.	MTH 402	Partial Differential Equations	4	
4.	IAM 403	Numerical Analysis	4	
5.	MTH 403	Linear Algebra	4	
6.	MTH 404	Abstract Algebra	4	
7.	MTH 406	Real Analysis	4	
8.	IAM 407	Differential Geometry	4	
9.	MTH 501	Topology	4	MTH 406
10.	IAM 501	Functional Analysis	4	

CORE OPEN COURSES
(12 CREDITS)

Sr. No.	Course Code	Course Name	Credits	Pre-requisite/Remarks
1.	IAM 406	Theory of Elasticity	4	
2.	IAM 410	General Relativity and Cosmology	4	
3.	MTH 410	Fundamentals of Statistics	4	
4.	MTH 411	Introduction to Projective Geometry	4	
5.	MTH 412	Introduction to Non-Euclidean Geometry	4	
6.	IAM 413	Introduction to Fourier Analysis	4	
7.	MTH 413	Probability Theory	4	
8.	IAM 503	Mathematical Analysis	4	
9.	MTH 503	Discrete Mathematics	4	
10.	MTH 504	Mechanics	4	
11.	IAM 506	Finite Element Methods	4	
12.	MTH 508	Graph Theory	4	
13.	MTH 512	Introduction to Algebraic Topology	4	
14.	IAM 516	Spectral Methods	4	
15.	MTH 516	Introduction to Representation Theory	4	
16.	IAM 517	Mesh Free Methods	4	
17.	IAM 526	Integral Equations and Boundary Value Problems	4	

18.	MTH 606	Principle of Mathematics and Techniques	4	
19.	MTH 609	Advanced Algebra	4	MTH 404
20.	MTH 619	Mechanics of Fluids	4	
21.	MTH 620	Group Analysis of Differential Equations	4	

ELECTIVE SPECIALIZATION
(16 CREDITS)

GROUP-I (Choose 12 Credits)				
Sr. No.	Course Code	Course Name	Credits	Pre-requisite/ Remarks
1.	MTH 510	Number Theory	4	
2.	IAM 404	Mathematical Methods	4	
3.	IAM 405	Fluid Dynamics	4	
4.	MTH 405	Lebesgue Measure and Integration	4	MTH 406
5.	IAM 408	Mathematical Modelling	4	
6.	MTH 408	Partial Differential Equations and Integral Equations	4	
7.	IAM 409	Applied Algebra	4	
8.	IAM 507	Wavelet Theory	4	
9.	IAM 508	Image Processing	4	
10.	IAM 509	Robotics and Control	4	
11.	IAM 510	Artificial Intelligence	4	
12.	IAM 511	Computer Aided Design	4	
13.	IAM 514	Data Base Management	4	
14.	IAM 518	Optimization Techniques	4	
15.	IAM 519	Data Structure Techniques	4	
16.	MTH 519	Introduction to Commutative Algebra	4	
17.	MTH 520	Field Theory and Galois Theory	4	
18.	IAM 521	Advanced Fluid Dynamics	4	
19.	MTH 521	Introduction to Elliptic Curve	4	
20.	MTH 522	Analytic Number Theory	4	
21.	MTH 590	M. Sc. Dissertation	12	
22.	IAM 602	Computational Methods	4	
23.	IAM 603	Applied Functional Analysis	4	
24.	IAM 604	Advanced Mathematical Methods	4	
25.	IAM 606	Fractional Differential Equations	4	
26.	MTH 607	Coding Theory & Applications	4	
27.	MTH 608	Advanced Complex Analysis	4	
28.	MTH 610	Algebraic Number Theory	4	
29.	MTH 611	Advanced Topics in Topology and Analysis	4	MTH 501
30.	MTH 614	Differentiable Structures on Manifolds	4	

31.	MTH 615	Algebraic Curves	4	
32.	MTH 616	Projective Representations of the Symmetric Groups	4	
33.	MTH 617	Banach Algebras	4	
34.	MTH 618	Differentiable Manifolds and Lie groups	4	MTH 403, MTH 501
35.	MTH 623	Introduction Algebraic Geometry	4	

GROUP-II (Choose 4 Credits)

Sr. No.	Course Code	Course Name	Credits	Pre-requisite/ Remarks
1.	MTH 550	M. Sc. Project	4	
2.	IAM 550	Project and Seminar based on Practical Training with Industry	4	

ELECTIVE OPEN
(4 CREDITS)

Sr. No.	Course Code	Course Name	Credits	Pre-requisite/ Remarks
1.	MTH 507	Approximation Theory	4	
2.	MTH 502	Operational Research	4	
3.	MTH 613	Category Theory	4	
4.	MTH 517	Stochastic Differential Equations	4	
5.	IAM 502	Advanced Numerical Analysis	4	
6.	MTH 505	Fuzzy Sets and Fuzzy Systems	4	
7.	IAM 512	Queues and Reliability	4	
8.	IAM 513	Computer Graphics	4	
9.	IAM 515	Bio-Mathematics	4	
10.	MTH 514	Global Differential Geometry	4	
11.	MTH 515	Non-Commutative Rings	4	
12.	MTH 624	Commutative Algebra	4	
13.	MTH 625	Introduction to Homological Algebra	4	
14.	MTH 626	Galois Theory	4	
15.	MTH 621	Categories and Modules	4	

SKILL DEVELOPMENT
(4 CREDITS)

Sr. No.	Course Code	Course Name	Credits	Pre-requisite/ Remarks
1.	MTH 511	Numerical Mathematical Analysis	4	
2.	IAM 402	Ordinary and Partial differential	4	

		Equations		
3.	IAM 411	Mathematics for Social Sciences	2	
4.	IAM 412	Vedic Mathematics	2	
5.	IAM 414	Introduction to Geometry	2	
6.	IAM 415	Elementary Number Theory	2	
7.	IAM 416	Computational Number Theory	2	
8.	IAM 504	Computer Applications	4	
9.	MTH 506	Software Lab	4	
10.	IAM 523	Special Functions	4	
11.	IAM 524	Mathematical Packages	4	
12.	IAM 525	Financial Mathematics	2	
13.	MTH 527	Introduction to Mathematical Statistics	2	

HUMAN DEVELOPMENT
(4 CREDITS)

Sr. No.	Course Code	Course Name	Credits	Pre-requisite/ Remarks
1.	IAM 505	Mathematical Modelling and Simulations	4	
2.	IAM 520	Theory of Vibrations	4	
3.	MTH 528	Introduction to Rigorous and Precise Thinking	2	
4.	MTH 529	Basics of Propositional Logic	2	
5.	MTH 549	Community Lab	4	
6.	IAM 598	Project	4	

**Proposed list of courses for Ph.D. course work in the Srinivasa Ramanujan
Department of Mathematics**

S. No.	Course Code	Course Name	Course Credits
	MTH 601	Research Methodology	4
	MTH 606	Principle of Mathematics and Techniques	4
	MTH 607	Coding Theory & Applications	4
	MTH 608	Advanced Complex Analysis	4
	MTH 609	Advanced Algebra	4
	MTH 610	Algebraic Number Theory	4
	MTH 611	Advanced Topics in Topology and Analysis	4
	MTH 614	Differentiable Structures on Manifolds	4
	MTH 615	Algebraic Curves	4
	MTH 616	Projective Representations of the Symmetric Groups	4
	MTH 617	Banach Algebras	4
	MTH 618	Differentiable Manifolds and Lie groups	4
	MTH 619	Mechanics of Fluids	4
	MTH 620	Group Analysis of Differential Equations	4
	MTH 621	Categories and Modules	4
	MTH 623	Introduction Algebraic Geometry	4
	MTH 624	Commutative Algebra	4
	MTH 625	Introduction to Homological Algebra	4
	MTH 626	Galois Theory	4
	IAM 602	Computational Methods	4
	IAM 603	Applied Functional Analysis	4
	IAM 604	Advanced Mathematical Methods	4
	IAM 606	Fractional Differential Equations	4
	RPE	Research and Publication Ethics	2



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय Central University of Himachal Pradesh

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PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Campus, Shahpur)

Attendance: Spring, 2019

Programme of Study: PG

Course Code: IAM412

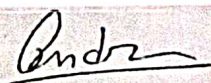
Name of Course: Vedic Mathematics

Sr. No.	Roll Number	Name of Student	Total Lectures Delivered	Total Lectures Attended	%age	Department
1.	INDERJEET NEGI	CUHP18IAM09	20	18	90	Mathematics
2.	MANJEET SINGH	CUHP18IAM14	20	19	95	Mathematics
3.	PANKAJ SHUKLA	CUHP18IAM17	20	19	95	Mathematics
4.	ANKIT SAXENA	CUHP18PGPAS02	20	19	95	Physics
5.	NAVEEN	CUHP18PGPAS13	20	20	100	Physics
6.	SURESH KUMAR	CUHP18PGPAS25	20	19	95	Physics
7.	BALBIR SINGH	CUHP18PGPAS30	20	20	100	Physics
8.	AYUSHI	CUHP18PGPA32	00	00	00	Physics
9.	ANJNA	CUHP18MLIB05	20	19	95	Library
10.	APRIKSHITA CHOUDHARY	CUHP18MLIB08	20	19	95	Library
11.	MITALI MANKOTIA	CUHP18MLIB14	20	20	100	Library
12.	RESHAV SINGH	CUHP18MLIB19	20	19	95	Library
13.	YAMINI SHARMA	CUHP18MLIB28	20	18	90	Library
14.	AARTI	CUHP18IT01	20	19	95	IT
15.	AKSHAY CHOUDHARY	CUHP18IT02	20	19	95	IT
16.	AKSHAY KUMAR	CUHP18IT03	20	20	100	IT
17.	AMIT KUMAR	CUHP18IT04	20	18	90	IT
18.	ANAMIKA	CUHP18IT05	20	19	95	IT
19.	BUNTY KUMAR	CUHP18IT06	20	20	100	IT
20.	DEEPIKA KUMARI	CUHP18IT07	00	00	00	IT
21.	DHEERAJ KUMAR	CUHP18IT08	20	19	95	IT
22.	HEENA	CUHP18IT09	20	20	100	IT
23.	KESHAV BHARTI	CUHP18IT10	20	17	85	IT
24.	KIRTI	CUHP18IT11	20	18	90	IT
25.	LUCKY SHARMA	CUHP18IT12	20	20	100	IT
26.	MASINDER KUMAR	CUHP18IT13	20	17	85	IT
27.	MUKESH	CUHP18IT14	20	16	80	IT
28.	NEHA	CUHP18IT15	20	17	85	IT

29.	NITIN BHATIA	CUHP18IT16	20	19	95	IT
30.	PRIYANKA BHARDWAJ	CUHP18IT18	20	17	85	IT
31.	PUJA SHARMA	CUHP18IT19	20	17	85	IT
32.	RAHUL KUMAR	CUHP18IT20	20	17	85	IT
33.	SAGAR	CUHP18IT21	20	17	85	IT
34.	SANDEEP THAKUR	CUHP18IT23	20	17	85	IT
35.	SURYA SACHIN	CUHP18IT26	20	19	95	IT
36.	TARUN DHIMAN	CUHP18IT27	20	17	85	IT
37.	VIKAS AZAD	CUHP18IT28	20	17	85	IT
38.	VIVEK PATHANIA	CUHP18IT30	20	18	90	IT
39.	HIMANSHI	CUHP18CCS06	20	18	90	Chemistry
40.	SAHIL KUMAR	CUHP18CCS16	20	18	90	Chemistry
41.	SHIMONA	CUHP18CCS21	00	18	90	Chemistry
42.	TANJIN SAMTAN	CUHP18CCS26	20	19	95	Chemistry
43.	VIVEK PANJLA	CUHP18CCS28	20	18	90	Chemistry

44.	ISHA THAKUR	CUHP18BOT07	20	00	00	Botany
45.	PRIYANKA BHUPAL	CUHP18BOT23	20	00	00	Botany
46.	SHIWALI RANA	CUHP18ZOO24	20	00	00	Zoology

Signature of Teacher:





हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Campus, Shahpur)

Attendance: Spring, 2019

Programme of Study: PG

Course Code: IAM412

Name of Course: Vedic Mathematics

Sr. No.	Roll Number	Name of Student	Total Lectures Delivered	Total Lectures Attended	%age	Department
1.	ABHINANDAN	CUHP18IAM01	20	18	90	Mathematics
2.	AMIT	CUHP18IAM02	20	19	95	Mathematics
3.	ANITA	CUHP18IAM03	20	19	95	Mathematics
4.	ANKIT CHAUHAN	CUHP18IAM04	20	19	95	Mathematics
5.	ANKUSH THAKUR	CUHP18IAM05	20	20	100	Mathematics
6.	ANUJA	CUHP18IAM06	20	19	95	Mathematics
7.	BHARTI SHARMA	CUHP18IAM07	20	20	100	Mathematics
8.	HINA MALIK	CUHP18IAM08	20	19	95	Mathematics
9.	KAMAL KANT	CUHP18IAM10	20	19	95	Mathematics
10.	MANISHA CHOUDHARY	CUHP18IAM12	20	19	95	Mathematics
11.	MANISHA THAKUR	CUHP18IAM13	20	20	100	Mathematics
12.	MONIKA THAKUR	CUHP18IAM15	20	19	95	Mathematics
13.	NIKITA	CUHP18IAM16	20	18	90	Mathematics
14.	POOJA	CUHP18IAM18	20	20	100	Mathematics
15.	PRIYANKA DEVI	CUHP18IAM19	20	19	95	Mathematics
16.	SHIVANI THAKUR	CUHP18IAM21	20	20	100	Mathematics
17.	SHRIKISHAN YADAV	CUHP18IAM22	20	18	90	Mathematics
18.	SHUBHAM BHATIA	CUHP18IAM23	20	19	95	Mathematics
19.	SONALI	CUHP18IAM24	20	20	100	Mathematics
20.	SUKANT AWASTHI	CUHP18IAM25	20	18	90	Mathematics
21.	SUNIL KUMAR	CUHP18IAM26	20	19	95	Mathematics
22.	TAMANNA	CUHP18IAM27	20	20	100	Mathematics
23.	VIJAY	CUHP18IAM28	20	17	85	Mathematics
24.	VIKRAM SINGH	CUHP18IAM29	20	18	90	Mathematics
25.	VIRENDER KUMAR	CUHP18IAM30	20	20	100	Mathematics
26.	AKANKSHA PATEL	CUHP18PGPAS01	20	17	85	Physics
27.	ANSHUL SHARMA	CUHP18PGPAS03	20	16	80	Physics
28.	ARUN KUMAR	CUHP18PGPAS04	20	17	85	Physics
29.	DHRUV AHLUWALIA	CUHP18PGPAS06	20	00	00	Physics
30.	ROBIN CHOUDHARY	CUHP18PGPAS19	20	17	85	Physics
31.	SAHIL SHARMA	CUHP18PGPAS21	20	17	85	Physics
32.	SANJEEV KUMAR	CUHP18PGPAS22	20	17	85	Physics
33.	VIJAY SINGH	CUHP18PGPAS26	20	17	85	Physics
34.	VIKRANT CHAUHAN	CUHP18PGPAS28	20	17	85	Physics
35.	GAURAV	CUHP18PGPAS29	20	19	95	Physics
36.	AYUSHI AWASTHI	CUHP18PGPAS31	20	17	85	Physics
37.	VISHALI	CUHP18PGPAS34	20	17	85	Physics
38.	ABHILASH THAKUR	CUHP18ENV01	20	18	90	ENV
39.	PANDIT PRASHANT SHERA	CUHP18ENV18	20	18	90	ENV
40.	REKHA DEVI	CUHP18MLIB18	20	18	90	Library
41.	TASHI DAVA BODH	CUHP18MLIB26	20	19	95	Library
42.	NIDHI	CUHP18CCS10	20	0	0	Chemistry
43.	SHIKHA JAMWAL	CUHP18CCS19	20	0	0	Chemistry

Signature of Teacher:



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215

Attendance for Spring Semester-2020

(Skill Development Course)

Programme of Study: MSc Mathematics

Course Code: MTH 527

Name of Course: Introduction to Mathematical Statistics

Credit: 02

Semester: 2nd

Batch: (2019-2021)

Sr. No.	Name of Student	Roll Number	Total Lectures Delivered	Total Lectures Attended	Percentage of Lectures attended
1.	Akanksha Thakur	CUHP19IAM01	25	25	100%
2.	Anil Kumar	CUHP19IAM02	25	19	76%
3.	Anu Bala	CUHP19IAM03	25	25	100%
4.	Archit Sharma	CUHP19IAM04	25	24	96%
5.	Deepika	CUHP19IAM05	25	25	100%
6.	Garima Thakur	CUHP19IAM06	25	25	100%
7.	Kajal	CUHP19IAM07	25	24	96%
8.	Kamal Kishore	CUHP19IAM08	25	19	76%
9.	Kashik Sharma	CUHP19IAM09	25	24	96%
10.	Lavlesh	CUHP19IAM10	25	23	92%
11.	Manisha	CUHP19IAM12	25	23	92%
12.	Manisha Sharma	CUHP19IAM13	25	25	100%
13.	Nitish Sharma	CUHP19IAM14	25	25	100%
14.	Praveen Kumar	CUHP19IAM15	25	24	96%
15.	Priyanka	CUHP19IAM16	25	24	96%
16.	Priyanka Thakur	CUHP19IAM17	25	23	92%
17.	Rakesh Kumar	CUHP19IAM18	25	25	100%
18.	Sachin Rana	CUHP19IAM19	25	20	80%
19.	Sahil Choudhary	CUHP19IAM20	25	24	96%
20.	Sneha Yadav	CUHP19IAM21	25	20	80%
21.	Sourav	CUHP19IAM22	25	25	100%
22.	Sourav	CUHP19IAM23	25	23	92%
23.	Sunil Prajapat	CUHP19IAM24	25	25	100%
24.	Sunny Kumar	CUHP19IAM25	25	22	88%
25.	Udipta Phukon	CUHP19IAM26	25	19	76%
26.	Vikrant Dharwal	CUHP19IAM27	25	21	84%
27.	Vishab Koundal	CUHP19IAM28	25	25	100%
28.	Vishal	CUHP19IAM29	25	25	100%
29.	Vishwendra Singh	CUHP19IAM30	25	21	84%
30.	Manu Bala	CUHP19IAM31	25	24	96%

Name & Signature of Teacher:

Dr. Parraj Kumar (s/o Sh. Krishan Singh)



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय Central University of Himachal Pradesh

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PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215

Attendance for Monsoon Semester-2020

(Skill Development Course)

Programme of Study: MSc Mathematics

Course Code: IAM 412

Name of Course: Vedic Mathematics

Credit: 02

Semester: 1st

Batch: (2020-2022)

Sr. No.	Name of Student	Roll Number	Total Lectures Delivered	Total Lectures Attended	Percentage of Lectures attended
1.	Abhishek Koundal	CUHP20IAM01	24	20	83%
2.	Akhil	CUHP20IAM02	24	24	100%
3.	Aniketa	CUHP20IAM03	24	24	100%
4.	Anil Kumar	CUHP20IAM04	24	23	96%
5.	Anshika Sharma	CUHP20IAM05	24	24	100%
6.	Ashish Thakur	CUHP20IAM06	24	24	100%
7.	Besar Singh	CUHP20IAM07	24	24	100%
8.	Gargi Thakur	CUHP20IAM08	24	24	100%
9.	Hitesh Kumar	CUHP20IAM09	24	23	96%
10.	Indu Bala	CUHP20IAM10	24	24	100%
11.	Jyoti Devi	CUHP20IAM11	24	24	100%
12.	Jyoti Rani	CUHP20IAM12	24	20	83%
13.	Kanu Choudhary	CUHP20IAM13	24	24	100%
14.	Kapil Joshi	CUHP20IAM14	24	20	83%
15.	Katyayani	CUHP20IAM15	24	24	100%
16.	Kritika Choudhary	CUHP20IAM16	24	24	100%
17.	Laxmi Narayan	CUHP20IAM17	24	23	96%
18.	Maninder Singh	CUHP20IAM18	24	24	100%
19.	Mansi Pathania	CUHP20IAM19	24	23	96%
20.	Monika	CUHP20IAM20	24	20	83%
21.	Neha Thakur	CUHP20IAM21	24	24	100%
22.	Poonam	CUHP20IAM22	24	21	87%
23.	Praveen Kumar	CUHP20IAM23	24	24	100%
24.	Priti	CUHP20IAM24	24	24	100%
25.	Renuka Thakur	CUHP20IAM25	24	19	79%
26.	Richa	CUHP20IAM26	24	19	79%
27.	Sapna Sharma	CUHP20IAM27	24	23	96%
28.	Savita	CUHP20IAM28	24	24	100%
29.	Shivani Dhiman	CUHP20IAM29	24	20	83%
30.	Shubham	CUHP20IAM30	24	24	100%
31.	Sonu Kumar	CUHP20IAM31	24	24	100%
32.	Vaishali	CUHP20IAM32	24	23	96%
33.	Varun	CUHP20IAM33	24	18	75%

Name & Signature of Teacher:

Dr. Parraj Kumar (s/o Sh. Krishan Singh)



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
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Attendance for Monsoon Semester-2020
(Human Development Course)

Programme of Study: MSc Mathematics

Course Code: MTH 529

Name of Course: Basics of Propositional Logic

Credit: 02

Semester: 1st

Batch: (2020-2022)

Sr. No.	Name of Student	Roll Number	Total Lectures Delivered	Total Lectures Attended	Percentage of Lectures attended
1.	Abhishek Koundal	CUHP20IAM01	24	20	83%
2.	Akhil	CUHP20IAM02	24	24	100%
3.	Aniketa	CUHP20IAM03	24	24	100%
4.	Anil Kumar	CUHP20IAM04	24	23	96%
5.	Anshika Sharma	CUHP20IAM05	24	24	100%
6.	Ashish Thakur	CUHP20IAM06	24	24	100%
7.	Besar Singh	CUHP20IAM07	24	24	100%
8.	Gargi Thakur	CUHP20IAM08	24	24	100%
9.	Hitesh Kumar	CUHP20IAM09	24	23	96%
10.	Indu Bala	CUHP20IAM10	24	24	100%
11.	Jyoti Devi	CUHP20IAM11	24	24	100%
12.	Jyoti Rani	CUHP20IAM12	24	20	83%
13.	Kanu Choudhary	CUHP20IAM13	24	24	100%
14.	Kapil Joshi	CUHP20IAM14	24	20	83%
15.	Katyayani	CUHP20IAM15	24	24	100%
16.	Kritika Choudhary	CUHP20IAM16	24	24	100%
17.	Laxmi Narayan	CUHP20IAM17	24	23	96%
18.	Maninder Singh	CUHP20IAM18	24	24	100%
19.	Mansi Pathania	CUHP20IAM19	24	23	96%
20.	Monika	CUHP20IAM20	24	20	83%
21.	Neha Thakur	CUHP20IAM21	24	24	100%
22.	Poonam	CUHP20IAM22	24	21	87%
23.	Praveen Kumar	CUHP20IAM23	24	24	100%
24.	Priti	CUHP20IAM24	24	24	100%
25.	Renuka Thakur	CUHP20IAM25	24	19	79%
26.	Richa	CUHP20IAM26	24	19	79%
27.	Sapna Sharma	CUHP20IAM27	24	23	96%
28.	Savita	CUHP20IAM28	24	24	100%
29.	Shivani Dhiman	CUHP20IAM29	24	20	83%
30.	Shubham	CUHP20IAM30	24	24	100%
31.	Sonu Kumar	CUHP20IAM31	24	24	100%
32.	Vaishali	CUHP20IAM32	24	23	96%
33.	Varun	CUHP20IAM33	24	18	75%

Name & Signature of Teacher: Dr. Ajeenakshi



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय Central University of Himachal Pradesh

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PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215

Attendance for Spring Semester 2021

(Skill Development Course)

Programme of Study: MSc Mathematics

Course Code: MTH 527

Name of Course: Introduction to Mathematical Statistics

Credit: 02

Semester: IInd

Batch: (2020-2022)

Sr. No.	Name of Student	Roll Number	Total Lectures Attended	Total Lectures Delivered	Percentage of Lectures attended
1.	ABHISHEK KOUNDAL	CUHP20IAM01	0	33	0.00
2.	AKHIL	CUHP20IAM02	29	33	87.88
3.	ANIKETA	CUHP20IAM03	30	33	90.91
4.	ANIL KUMAR	CUHP20IAM04	27	33	81.82
5.	ANSHIKA SHARMA	CUHP20IAM05	30	33	90.91
6.	ASHISH THAKUR	CUHP20IAM06	27	33	81.82
7.	BESAR SINGH	CUHP20IAM07	27	33	81.82
8.	GARGI THAKUR	CUHP20IAM08	30	33	90.91
9.	HITESH KUMAR	CUHP20IAM09	27	33	81.82
10.	INDU BALA	CUHP20IAM10	29	33	87.88
11.	JYOTI DEVI	CUHP20IAM11	29	33	87.88
12.	JYOTI RANI	CUHP20IAM12	30	33	90.91
13.	KANU CHOUDHARY	CUHP20IAM13	29	33	87.88
14.	KAPIL JOSHI	CUHP20IAM14	27	33	81.82
15.	KATYAYANI	CUHP20IAM15	30	33	90.91
16.	KRITIKA CHOUDHARY	CUHP20IAM16	29	33	81.82
17.	LAXMI NARAYAN	CUHP20IAM17	29	33	87.88
18.	MANINDER SINGH	CUHP20IAM18	27	33	81.82
19.	MANSI PATHANIA	CUHP20IAM19	28	33	84.85
20.	MONIKA	CUHP20IAM20	29	33	87.88
21.	NEHA THAKUR	CUHP20IAM21	30	33	90.91
22.	POONAM	CUHP20IAM22	26	33	78.79
23.	PRAVEEN KUMAR	CUHP20IAM23	29	33	87.88
24.	PRITI	CUHP20IAM24	29	33	87.88
25.	RENUKA THAKUR	CUHP20IAM25	27	33	81.82
26.	RICHA	CUHP20IAM26	28	33	84.85
27.	SAPNA SHARMA	CUHP20IAM27	30	33	90.91
28.	SAVITA	CUHP20IAM28	30	33	90.91
29.	SHIVANI DHIMAN	CUHP20IAM29	29	33	87.88
30.	SHUBHAM	CUHP20IAM30	30	33	90.91
31.	SONU KUMAR	CUHP20IAM31	28	33	84.85
32.	VAISHALI	CUHP20IAM32	27	33	81.82
33.					

Name & Signature of Teacher:

Dr Pankaj Kumar S/o Lt. Maniram



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Attendance for ^{Spring} Monsoon Semester-2021
(Human Making Course)

Programme of Study: MSc Mathematics

Course Code: MTH 528

Name of Course: Introduction to Rigorous and Precise Thinking

Credit: 02

Semester: IInd

Batch: (2020-2022)

Sr. No.	Name of Student	Roll Number	Total Lectures Attended	Total Lectures Delivered	Percentage of Lectures attended
1.	ABHISHEK KOUNDAL	CUHP20IAM01	0	31	0
2.	AKHIL	CUHP20IAM02	28	31	90.32
3.	ANIKETA	CUHP20IAM03	26	31	83.87
4.	ANIL KUMAR	CUHP20IAM04	22	31	70.97
5.	ANSHIKA SHARMA	CUHP20IAM05	30	31	96.77
6.	ASHISH THAKUR	CUHP20IAM06	25	31	80.65
7.	BESAR SINGH	CUHP20IAM07	27	31	87.10
8.	GARGI THAKUR	CUHP20IAM08	28	31	90.32
9.	HITESH KUMAR	CUHP20IAM09	26	31	83.87
10.	INDU BALA	CUHP20IAM10	28	31	90.32
11.	JYOTI DEVI	CUHP20IAM11	29	31	93.55
12.	JYOTI RANI	CUHP20IAM12	28	31	90.32
13.	KANU CHOUDHARY	CUHP20IAM13	29	31	93.55
14.	KAPIL JOSHI	CUHP20IAM14	29	31	93.55
15.	KATYAYANI	CUHP20IAM15	30	31	96.77
16.	KRITIKA CHOUDHARY	CUHP20IAM16	25	31	80.65
17.	LAXMI NARAYAN	CUHP20IAM17	29	31	93.55
18.	MANINDER SINGH	CUHP20IAM18	27	31	87.10
19.	MANSI PATHANIA	CUHP20IAM19	27	31	87.10
20.	MONIKA	CUHP20IAM20	29	31	93.55
21.	NEHA THAKUR	CUHP20IAM21	29	31	93.55
22.	POONAM	CUHP20IAM22	26	31	83.87
23.	PRAVEEN KUMAR	CUHP20IAM23	28	31	90.32
24.	PRITI	CUHP20IAM24	27	31	87.10
25.	RENUKA THAKUR	CUHP20IAM25	29	31	93.55
26.	RICHA	CUHP20IAM26	29	31	93.55
27.	SAPNA SHARMA	CUHP20IAM27	27	31	87.10
28.	SAVITA	CUHP20IAM28	28	31	90.32
29.	SHIVANI DHIMAN	CUHP20IAM29	27	31	87.10
30.	SHUBHAM	CUHP20IAM30	29	31	93.55
31.	SONU KUMAR	CUHP20IAM31	29	31	93.55
32.	VAISHALI	CUHP20IAM32	25	31	80.65
33.	VARUN	CUHP20IAM33	0	31	0
34.	ADITYA BHARTI	CUHP20PGPAS01	29	31	93.55
35.	AMAN SHARMA	CUHP20PGPAS02	29	31	93.55
36.	AMIT KUMAR	CUHP20PGPAS03	28	31	90.32
37.	AMIT KUMAR	CUHP20PGPAS04	26	31	83.87
38.	ANAND ARYA	CUHP20PGPAS05	29	31	93.55
39.	ANCHAL DEVI	CUHP20PGPAS06	29	31	93.55
40.	AYUSH	CUHP20PGPAS07	0	31	0.00

41.	CHANDAN KUMAR	CUHP20PGPAS08	24	31	77.42
42.	GAGANDEEP	CUHP20PGPAS09	28	31	90.32
43.	GOURI PANDEY	CUHP20PGPAS10	25	31	80.65
44.	HARINDER MOHAN	CUHP20PGPAS11	28	31	90.32
45.	KAVITA KUMARI	CUHP20PGPAS12	26	31	83.87
46.	LUXMI DEVI	CUHP20PGPAS13	24	31	77.42
47.	NAFISA KHATOON	CUHP20PGPAS14	29	31	93.55
48.	NARESH KUMAR	CUHP20PGPAS15	29	31	93.55
49.	NEERAJ WALIA	CUHP20PGPAS16	29	31	93.55
50.	PARVEEN PATHANIA	CUHP20PGPAS17	0	31	0.00
51.	PARYAG SHARMA	CUHP20PGPAS18	29	31	93.55
52.	PAVESH CHAUHAN	CUHP20PGPAS19	29	31	93.55
53.	PRIYA CHANDEL	CUHP20PGPAS20	29	31	93.55
54.	RAJAT KUMAR	CUHP20PGPAS21	29	31	93.55
55.	RAJESH KUMAR	CUHP20PGPAS22	25	31	80.65
56.	RIYA KOUNDAL	CUHP20PGPAS23	28	31	90.32
57.	SAHIL	CUHP20PGPAS24	27	31	87.10
58.	SAHIL KUMAR	CUHP20PGPAS25	26	31	83.87
59.	SHAKUNTLA	CUHP20PGPAS26	29	31	93.55
60.	SHAMLI SANDHU	CUHP20PGPAS27	29	31	93.55
61.	VISHAL	CUHP20PGPAS28	26	31	83.87
62.	SHUBHAM BHARMORIA	CUHP20PGPAS29	28	31	90.32
63.	SONAM CHAUHAN	CUHP20PGPAS30	29	31	93.55
64.	SUNAINA	CUHP20PGPAS31	26	31	83.87
65.	TANUJ CHAUHAN	CUHP20PGPAS32	27	31	87.10
66.	VISHAL MEHRA	CUHP20PGPAS33	29	31	93.55



Name & Signature of Teacher:

Dr Pankaj Kumar S/o Lt. Maniram