

## Publication Details

### School of Basic & Applied Sciences

#### 1. Books/ Book Chapter

Sr. No.	Authors' Name (Same order as in Publication)	Title	Publisher	Vol. No.	Year	Page No.
1	Dr. Anupam Khanna Mr. Ashish Kumar Sharma	Vibrational Characteristics Of Square Plate With Thickness Variability	LAP Publisher, Germany	978-3-659-16916-8	Jul 5, 2012	--
2	Mr. Ashish Kumar Sharma	Computational Prediction On Natural Frequency Of Crack Plate	LAP Publisher, Germany	978-3-659-25862-6	September 27, 2012	--
3	Dr. Ashish Kumar Sharma	Mechanical Vibration Of Plates	LAP Publisher, Germany	978-3-659-11322-2	Feb-2014	---
4	Dr. Ashish Kumar Sharma	Mathematical Foundations	LAP Publisher, Germany	978-3-659-58693-2	Aug-2014	---
5	Dr. Ashish Kumar Sharma	Mathematics With Matlab	LAP Publisher Germany	978-3-330-02266-9	Dec-2016	--
6	Dr. Ashish Kumar Sharma	Mathematics With Computer Applications	Scholar Press	978-613-8-64820-8	Feb-2019	--
7	Dr. Ashish Kumar Sharma	Introduction Of Algebra	Scholar Press	978-613-8-91335-1	Sept-2019	--
8	Dr. Ashish Kumar Sharma	Research Methodology	Scholar Press	978-613-8-923985-5	Sept-2020	--
9	Dr. Ashish Kumar Sharma	Basics Of Research Methodology And Report Writing	Scholar Press	978-613-8-95094-3	16-March-2021	--

#### 2. Research Publication in UGC/SCOPUS/ WOS/ SCI/ SCIE/ ESCI/ SSCI/ or any other listed Journals

Sr. No.	Name of Faculty	Title of Research Papers	Journal Name	Vol. /Issue	ISSN No.	Year of Publication	UGC/ SCOPUS/ WOS/ SCI/ SCIE/ ESCI/ SSCI/ or any other listed Journals
1	Dr. Ashish Kumar Sharma	Stability of Triangular Equilibrium Points in the Photogravitational R3BP When both Primaries are Oblate Spheroid and Effect of Radiation	Romanian Journal of Acoustics and Vibration	Volume:1 7	ISSN: 15847284	1 <sup>st</sup> Nov-2020	ESCI & Scopus

2	Dr. Ashish Kumar Sharma	Natural Frequency of Plate by Using Rayleigh Ritz Method with Varying Thickness and Thermal Effect	Research & Reviews: Discrete Mathematical Structures.	Volume 7	<b>ISSN: 2394-1979</b>	Publication date, 2020/5/4	<b>UGC Care</b>
3	Dr. Ashish Kumar Sharma	Vibration Of Orthotropic Parallelogram Plate With Bi-Parabolic Thickness And Temperature Variation	Journal of the Gujarat Research Society.	Volume 21 Issue 1	ISSN: 0374-8588	4, December 2019	<b>UGC Care</b>
4	Dr. Ashish Kumar Sharma	Effect Of Non-Homogeneity With Thickness And Temperature Variation On Vibration Of Orthotropic Parallelogram Plate With Simply Supported Edges	ARNP Journal of Engineering and Applied Sciences.	VOL. 14, NO. 15.	ISSN 1819-6608	AUGUST 2019	<b>ESCI &amp; Scopus</b>
5	Dr. Ashish Kumar Sharma	Vibration of Non-Homogeneous Parallelogram Plate (SSSS) Having Conflicting Bi-illustrative Thickness and Bi-direct Temperature Variation	International Journal of Applied Engineering Research.	Vol. 14(2)	ISSN: 0973-4562	2019	<b>ESCI &amp; Scopus</b>
6	Dr. Ashish Kumar Sharma	Vibration Analysis of Simply Supported Parallelogram Plate with Bi-Dimensional Thickness and Temperature Deviation	Research Journal of Science and Technology	Vol. 12(6),	ISSN: 0975-4393	2018	<b>UGC Care</b>
7	Dr. Ashish Kumar Sharma	Effect of circular variation in thickness and linear variation in density on vibrational Frequency	Advance in intelligent Systems and computing,	Vol. 5(6),	ISSN 2194-5357	2018	<b>UGC Care</b>
8	Dr. Ashish Kumar Sharma	Mechanical Vibration of Orthotropic Square Plate with Clamped Boundary Conditions	Research Journal of Science and Technology	Vol. 10(4)	ISSN: 0975-4393	2018	<b>UGC Care</b>
9	Dr. Ashish Kumar Sharma	2854. Effect of density and Poisson's ratio on thermal induced vibration of parallelogram plate	Journal Of Vibroengineering,	Volume, 20, Issue 3	ISSN (Online) 2538-8460	May 2018	<b>ESCI &amp; Scopus</b>
10	Dr. Ashish Kumar	Effect of Circular Variation in	Springer, Advances in	Vol. 564	ISSN: 2194-5365.	2017	<b>ESCI &amp; Scopus</b>

	Sharma	Thickness and Linear Variation in Density on Vibrational Frequencies	Intelligent Systems and Computing				
11	Dr. Ashish Kumar Sharma	Inspection of Vibration using Rayleigh- Ritz method for Orthotropic Non-Homogeneous Plate with varying Thickness and Thermal Effect	Romanian Journal of Acoustics and Vibration	Vol XIV Issue 1	ISSN: 15847284	2017	ESCI & Scopus
12	Dr. Ashish Kumar Sharma	Vibration of Clamped Non-homogeneous Square Plate with non-uniform varying Thickness and Thermal Effect	Research Journal of Science and Technology;	Vol. 9, Issue 1,	ISSN: 0975-4393	(Jan/Mar 2017): 71-75.	UGC Care
13	Dr. Ashish Kumar Sharma	Vibrational Study of Square Plate with Thermal Effect and Circular Variation in Density	Romanian Journal of Acoustics and Vibration,	Volume XIII, issue 2.	ISSN: 15847284		ESCI & Scopus
14	Dr. Ashish Kumar Sharma	Mathematical Modeling of Vibration on Parallelogram Plate with Non Homogeneity Effect	Romanian Journal of Acoustics and Vibration,	Volume XIII, issue 1	ISSN: 15847284	, Oct 2016.	ESCI & Scopus
15	Dr. Ashish Kumar Sharma	A Modeling on Frequency of Rectangular Plate	International Journal of Control Theory and Applications	Vol9 Issue No 20,	ISSN :- 0974-5572	2016, Pg. no. 277-282	Scopus
16	Dr. Ashish Kumar Sharma	A Quintic Spline Technique: Effect on Frequency of C-S-C-S and S-S-S-S Rectangular Plate with Varying Thickness and Temperature Effect	Romanian Journal of Acoustics and Vibration,	Volume XIII, issue 1,	ISSN: 15847284	Oct 2016.	ESCI & Scopus
17	Dr. Ashish Kumar Sharma	Effect of Vibration on Orthotropic Visco-Elastic Rectangular Plate with Two Dimensional	Indian Journal of Science and Technology,	Vol 9(2),	ISSN: 09746846	January 2016	Scopus


		Temperature and Thickness Variation					
18	Dr. Ashish Kumar Sharma	Mathematically study on vibration of visco-elastic parallelogram plate	Mathematical Models In Engineering.	Volume 1, Issue 1.	2424-4627 (Online)	2015	<b>Pre-reviewed</b>
19	Dr. Ashish Kumar Sharma	Rayleigh-Ritz Method for Analyzing Free Vibration of Orthotropic Rectangular Plate with 2D Thickness and Temperature Variation	Journal Of Vibroengineering,	Volume 17, Issue 4.	ISSN (Online) 2538-8460	Jun 2015	<b>ESCI &amp; Scopus</b>
20	Dr. Ashish Kumar Sharma	Effect of Bi-Parabolic Thermal and Thickness Variation on Vibration of Visco-Elastic Orthotropic Rectangular Plate	Journal of Advanced Research in Manufacturing, Material Science & Metallurgical Engineering	Volume 5, Issue 1.	ISSN (Print). : 2394-7039		<b>ESCI</b>
21	Dr. Ashish Kumar Sharma	Free Vibration of Visco-elastic orthotropic Rectangular plate with Bi-Parabolic Thermal Effect and Bi-Linear Thickness Variation	Journal of Advanced Research in Applied Mechanics & Computational Fluid Dynamics	Vol.1, Issue 1	ISSN, 2349-7661	,2014	<b>UGC Care</b>
22	Dr. Ashish Kumar Sharma	Mechanical Vibration of Orthotropic Rectangular Plate with 2D Linearly Varying Thickness and Thermal Effect	International Journal of Research in Advent Technology,	Vol.2, No.6,	ISSN 2321-9637 (online)	June 2014	<b>UGC Care</b>
23	Dr. Ashish Kumar Sharma	Vibration Computational of Visco-Elastic Plate with Sinusoidal Thickness Variation and Linearly Thermal effect in 2D	Journal of Advanced Research in Applied Mechanics & Computational Fluid Dynamics	Vol.1, Issue 1	ISSN, 2349-7661	2014	<b>Pre-reviewed</b>
24	Dr. Ashish Kumar Sharma	Free Transverse Vibration of Visco-elastic C-C-C-C square plate with Thickness and Temperature	Research Journal of Mathematical and Statistical Sciences,	Vol. 1(7), pp. 1-11,	ISSN (Online): 2348-4519	August (2013).	<b>Pre-reviewed</b>

		Variation					
25	Dr. Ashish Kumar Sharma	A Computational Model on : Vibration of square plate with varying Thickness and Thermal effect in two Directions	Research Journal of Engineering Sciences, ,	Vol. 2(7), pp. 6-9	ISSN: 2278-9472	July (2013).	Pre-reviewed
26	Dr. Ashish Kumar Sharma	Natural vibration of visco-elastic plate of varying thickness with thermal effect	Journal of Applied Sciences and Engineering, China.	Vol. 16, No. 2, pp. 135-1402	ISSN: 2708-9967	(2013),	SCOPUS
27	Dr. Ashish Kumar Sharma	Natural Frequency of Visco-Elastic Square Plate With Thickness Variation	Elixir Mech. Engineering., pg 13264-13267.	56,	ISSN 2229-7122	Jan-2013,	Pre-reviewed
28	Dr. Ashish Kumar Sharma	Effect of varying Poisson ratio on thermally induced vibrations of non-homogeneous rectangular plate	Indian Journal of Science and Technology, 3263-3267.	Vol. 5, No. 9,	ISSN: 09746846	Sept-2012, pg.	Scopus
29	Dr. Ashish Kumar Sharma	Mechanical Vibration of Visco-Elastic Plate With Thickness Variation	International Journal of Applied Mathematical Research, pg. 150-158, U.A.E.	Vol. 1, No. 2,	ISSN 2227-4324	May-2012,	Pre-reviewed
30	Dr. Ashish Kumar Sharma	Effect of Thermal Gradient and Thickness Variation on Vibration of Visco- Elastic Plate	International Journal of Scientific and Technology Research, pg. 58-60.	Vol. 1, Issue 3,	ISSN 2277-8616	April-2012,	Pre-reviewed
31	Dr. Ashish Kumar Sharma	Effect of Thermal Gradient on Vibration of Visco-Elastic Plate with Thickness Variation	American Journal of Computational and Applied Mathematics, pg.34-36.	Vol.2 (1),	ISSN Online: 2161-1211	Feb-2012,	Pre-reviewed
32	Dr. Ashish Kumar Sharma	Vibration Characterization of C-C-C-C Visco-Elastic Square Plate With varying Temperature	International Journal of Research in Engineering & Applied Sciences, pg 1754-1760.	Volume 2, Issue 2.	ISSN, 2249-3905	Feb - 2012	Pre-reviewed
33	Dr. Ashish Kumar Sharma	Analysis of Water Hammer Forming on the Sheet Metal	Journal of Information Engineering and Applications, pg 6-10.	Vol 2, No.1	ISSN: 2409-6539	2012	Pre-reviewed
34	Dr. Ashish Kumar Sharma	Thermally Induced Vibration of Non-Homogeneous	Advances in Physics Theories and Applications, ,	Vol 1	ISSN: 2412-3714	2011	Pre-reviewed

		Visco-Elastic Plate of Variable Thickness	pg 1-5, U.S.A.				
35	Dr. Ashish Kumar Sharma	Vibration Analysis of Visco-Elastic Square Plate of Variable Thickness with Thermal Gradient	International Journal Of Engineering And Applied Sciences, pg. 1-6, TURKEY.	Vol.3, Issue 4	ISSN: 1309-0267	2011	<b>Pre-reviewed</b>
36	Dr. Ashish Kumar Sharma	Bi-Parabolic Thermal Effect on Vibration of Visco-Elastic Square Plate	Journal Of Applied Mathematics and Bioniformatics, pg 39-48, Greece.	vol.1, no.2	<b>ISSN 1792-6939</b>	2011	<b>Pre-reviewed</b>
37	Dr. Ashish Kumar Sharma	Theoretical Model on Vibration of Visco-elastic square plate with thermal effect	International Journal of Applied Engineering Research, pg. 3143-3145.	Vol. 6, Issue 18	ISSN: 0973-4562	2011	<b>Pre-reviewed</b>
38	Dr. Ashish Kumar Sharma	Vibration of Non-homogenous Visco-Elastic Square Plate of Variable Thickness in Both Directions With Thermal effect	Innovative System Design and Engineering, pg. 6-11, U.S.A.	vol.2, no. 2	ISSN 2222-2871	2011	<b>Pre-reviewed</b>
39	Dr. Ashish Kumar Sharma	Study of free Vibration of Visco-Elastic Square Plate of Variable Thickness with Thermal Effect	Innovative System Design and Engineering, pg. 1-5, U.S.A.	vol.1, no. 1	ISSN 2222-2871	2011	<b>Pre-reviewed</b>
40	Dr. Ashish Kumar Sharma	Vibration Characteristics of Non-Homogeneous Visco-Elastic Square Plate	Advances in Physics Theories and Applications, , pg. 1-6, U.S.A.	Vol 2	<b>ISSN: 2412-3714</b>	2011	<b>Pre-reviewed</b>
41	Dr. Ashish Kumar Sharma	Analysis of Water Hammer Forming on the Sheet Metal	Chemistry and Materials Research	Vol 1, No.2	ISSN 2224-3224	2011	<b>Pre-reviewed</b>
42	Dr. Ashish Kumar Sharma	Vibration of Non-homogenous Visco-Elastic Square Plate of Variable Thickness in Both Directions	Innovative System Design and Engineering, USA	Volume 2 Issue 3	ISSN 2222-2871	2011	<b>Pre-reviewed</b>
43	Dr. Ashish Kumar Sharma	A Computational Prediction on Vibration of Square Plate by Varying Thickness with bi-dimensional Thermal effect	International Journal of Emerging trends in Engineering and Development, pg. 191-196.	Issue 2, Vol.3,	ISSN 2249-6149	April-2011	<b>Pre-reviewed</b>

44	Dr. Ashish Kumar Sharma	Analysis of Free Vibrations of Visco-Elastic Square Plate of Variable Thickness With Temperature Effect	International Journal Of Applied Engineering Research, Dindigul, pg. 312-317, INDIA.	Volume 2, No 2.	ISSN 0976-4259	2011	<b>Pre-reviewed</b>
1.	Dr. Sanjeev Kumar	Anisotropic Viscous Fluid Cosmological Models in Saez-Ballester Theory of Gravitation	Journal of Rajasthan Academy of Physical Sciences	18	0972-6306	2019	UGC Listed Journal
2.	Dr. Sanjeev Kumar	Five dimensional viscous fluid cosmological models with vacuum energy density in general relativity	Journal of Rajasthan Academy of Physical Sciences	19	0972-6306	2020	UGC Listed Journal
1.	Dr. Awnish Kumar Singh	Meir-keeler type contraction via rational expression	Acta mathematica universitatis comenianae	89	1336-0310	2019	Scopus Journal
2.	Dr. Awnish Kumar Singh	A fixed point theorem for biased maps satisfying an implicit relation	New trends in mathematical Sciences	17	2147-5520	2019	Scopus Journal
1.	Mrs. Vijyeta Verma	Vibration of clamped non-homogeneous square plate with non-uniform varying Thickness and thermal effect	Research Journal of Science and Technology,	Vol. 09  Issue-01	0975-4393 (Print)	2017	UGC
2.	Mrs. Vijyeta Verma	Inspection of Vibration using Rayleigh- Ritz method for Orthotropic Non-Homogeneous Plate with varying Thickness and Thermal Effect	RJAV	XIV(1)	ISSN 1584-7284	2017	UGC
3.	Mrs. Vijyeta Verma	Mechanical Vibration of Orthotropic Square Plate with Clamped boundary Conditions	Research Journal of Science and Technology	10(4) Vol. 10	0975-4393 (Print)	2018	UGC
4.	Mrs. Vijyeta Verma	Vibration Of Orthotropic Parallelogram Plate With Bi-Parabolic Thickness And Temperature Variation	Journal of Gujarat Society	Volume 21 Issue 14	2349-2988 (Online)	2019	UGC

### 3. Patents/ Copyright Applied or Published

<b>(Photo) Name of the Faculty Designation Department</b>	<b>Patent Title</b>	<b>National/ International</b>	<b>Status (Filed/Published/ Granted)</b>
 <b>Dr. Ashish Kumar Sharma</b>	Plant Growing Device With Adjustable Cover	National	Filed
	Intelligent system and method for providing a virtual consultant service based on artificial intelligence	National	Published