

राजस्थान विश्वविद्यालय

जयपुर

हम, राजस्थान विश्वविद्यालय के
कुलाधिपति, कुलपति तथा सेनेट के सदस्य प्रमाणित करते हैं कि
विश्वविद्यालय गणित विभाग, विज्ञान संकाय में
होशियार सिंह
को शोध प्रबन्ध

A Study of some Viscous flow Problems in Porous medium under Slip Boundary Conditions

04-05-2015 को स्वीकृत होने के उपरान्त

डॉक्टर ऑफ़ फिलॉसफी

की उपाधि प्रदान की गई।

प्रमाण-पत्र इस विश्वविद्यालय की मुद्रा और कुलपति के हस्ताक्षर से अंकित किया जाता है।

*We, The Chancellor, Vice-Chancellor
and the Members of the Senate of the*

University of Rajasthan

Jaipur

Certify that

Hoshiyar Singh

of the University Department of Mathematics, Faculty of Science

has been conferred the Degree of

Doctor of Philosophy

after approval of the thesis

A Study of some Viscous flow Problems in Porous medium under Slip Boundary Conditions

on 04-05-2015.

*In Testimony whereof are set the Seal of the said University and the
signature of the said Vice-Chancellor.*



Gulab Singh

कुलपति

Vice-Chancellor

Jaipur, Dated : 11-06-2016

Hoshiyar Singh

राजस्थान विश्वविद्यालय

जयपुर

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विश्वविद्यालय गणित विभाग, विज्ञान संकाय में
होशियार सिंह
को शोध प्रबन्ध

A Study of some Viscous flow Problems in Porous medium under Slip Boundary Conditions

04-05-2015 को स्वीकृत होने के उपरान्त

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on 04-05-2015.

*In Testimony whereof are set the Seal of the said University and the
signature of the said Vice-Chancellor.*



Gulab Singh

कुलपति
Vice-Chancellor

Jaipur, Dated : 14-06-2016

Hoshiyar Singh

UNIVERSITY OF RAJASTHAN



CERTIFICATE

503

Serial No.

Dated : 6/10/17

Certified that the candidate Dr. Hoshiyar Singh S/o
Dr. Phool Singh has fulfilled the following conditions specified in the UGC
Regulations 2010 as amended on July 11, 2016 (Minimum qualification for appointment of Teachers) for
exemptions from the requirement of NET/SLET/SET for recruitment and appointment of Assistant Professor or
equivalent positions in Universities/Colleges/ Institutions:

1. Ph.D. degree of the candidate awarded in regular mode only;
2. Evaluation of the Ph.D. thesis by at least two external examiners;
3. Open Ph.D. viva-voce of the candidate had been conducted;
4. Candidate has published two research papers from his/her Ph.D. work out of which at least one must be in a refereed journal;
5. Candidate has made at least two presentations in Conferences/ Seminars, based on his/her Ph.D. work.

The above candidate was awarded Ph.D. Degree on the title "A Study of Some
Viscous Flow Problems in Porous Medium under
Slip Boundary Conditions" In the Department of Mathematics
under the faculty of Science on approval by the Vice-Chancellor on 04/5/15

Jaipur

Dated : 6/10/17

Dean 6/10/17

Faculty of SCIENCE

Hoshiyar Singh

UNIVERSITY OF RAJASTHAN



CERTIFICATE

503

Serial No.

Dated : 6/10/17

Certified that the candidate Dr. Hoshayar Singh S/o
Dr. Sh. Phool Singh has fulfilled the following conditions specified in the UGC
Regulations 2010 as amended on July 11, 2016 (Minimum qualification for appointment of Teachers) for
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equivalent positions in Universities/Colleges/ Institutions:

1. Ph.D. degree of the candidate awarded in regular mode only;
2. Evaluation of the Ph.D. thesis by at least two external examiners;
3. Open Ph.D. viva-voce of the candidate had been conducted;
4. Candidate has published two research papers from his/her Ph.D. work out of which at least one must be in a refereed journal;
5. Candidate has made at least two presentations in Conferences/ Seminars, based on his/her Ph.D. work.

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Jaipur

Dated : 6/10/17

Dean

Faculty of SCIENCE

Hoshayar Singh



राजस्थान विश्वविद्यालय जयपुर

राजस्थान विश्वविद्यालय के कुलाधिपति, कुलपति तथा सेनेट
के सदस्य प्रमाणित करते हैं कि
विश्वविद्यालय गणित विभाग, जयपुर के
होशीयार सिंह

को सन् 2003 की परीक्षा प्रथम श्रेणी में उत्तीर्ण घोषित होने पर
मास्टर ऑफ़ आर्ट्स / मास्टर ऑफ़ साइन्स
(गणित)

की उपाधि प्रदान की गई।
प्रमाण-पत्र इस विश्वविद्यालय की मुद्रा और कुलपति के
हस्ताक्षर से अंकित किया जाता है।

*The Chancellor, Vice-Chancellor
and the Members of the Senate of the*
University of Rajasthan
Jaipur

Certify that
Hoshiyar Singh of
University Deptt. Of Mathematics, Jaipur
*having been examined in the year 2003 and passed the
examination in First Division, The Degree of*
Master of Arts / Master of Science
(Mathematics)

has been conferred on him.
In Testimony whereof are set the Seal of the said University and the
signature of the said Vice-Chancellor.



Hoshiyar Singh
कुलपति
Vice-Chancellor

Jaipur, Dated : 15-05-2015

This Degree can be verified by using Unique Degree Number (UDN) 2003860300002663 at www.unrj.ac.in



राजस्थान विश्वविद्यालय

जयपुर

राजस्थान विश्वविद्यालय के कुलाधिपति, कुलपति तथा सेनेट
के सदस्य प्रमाणित करते हैं कि
विश्वविद्यालय गणित विभाग, जयपुर के
होशीयार सिंह

को सन् 2003 की परीक्षा प्रथम श्रेणी में उत्तीर्ण घोषित होने पर
मास्टर ऑफ़ आर्ट्स / मास्टर ऑफ़ साइन्स
(गणित)

की उपाधि प्रदान की गई।
प्रमाण-पत्र इस विश्वविद्यालय की मुद्रा और कुलपति के
हस्ताक्षर से अंकित किया जाता है।

*The Chancellor, Vice-Chancellor
and the Members of the Senate of the*
University of Rajasthan
Jaipur

Certify that
Hoshiyar Singh of
University Deptt. Of Mathematics, Jaipur
*having been examined in the year 2003 and passed the
examination in First Division, The Degree of*
Master of Arts / Master of Science
(Mathematics)

has been conferred on him.

*In Testimony whereof are set the Seal of the said University and the
signature of the said Vice-Chancellor.*



Hoshiyar Singh *Jamun Singh*
कुलपति
Vice-Chancellor

Jaipur, Dated: 15-05-2015

This Degree can be verified by using Unique Degree Number (UDN): 2003860300002663 at www.uniraj.ac.in



UNIVERSITY OF RAJASTHAN (REVALUATION)

18

Copy of Marks obtained at the M.A/M.Sc.(Final) MATHEMATICS (4516) EXAM. 2003

Roll No 2663

En. No. 98/26896

Category REGULAR

Name HOSHIYAR SINGH

Ordinance 169-E(ii)

Sub. Cate Y

Father's Name PHOOL SINGH

Mother's Name BHANVREE DEVI

Medium ENGLISH

College/Deptt./Centre UNIVERSITY DEPTT. OF MATHEMATICS, JAIPUR



College/Dept./Centre		UNIVERSITY DEPTT. OF MATHEMATICS, JAIPUR				PAPER(S) OFFERED		Max. Marks	Min. Marks	Marks obtd.		Remarks
No.		Narration				Marks	Marks	Prev.	Final			
III-old		5606- DIFFERENTIAL GEOMETRY & TENSEN				100	25	77				
IV-old		5607- RIZID DYNAMICS & HYDRODYNAM				100	25	51				
I		7301- ADVANCED ANALYSIS				100	25			65		
II		7302- CONTINUUM MECHANICS				100	25			81		
V		7305- BOUNDARY LAYER THEORY				100	25			53		
X		7310- INTEGRAL TRANSFORMS				100	25			68		
XIII		7313- RELATIVITY				100	25			62		
EXAMINATION	Marks in Papers appeared	Marks in Papers already cleared	Aggregate Marks	Pass/ Fail	Marks to be taken into account for award of division		Combined marks of Previous & Final		Passed in Division			
Previous	128	179	307 /500	P	Previous	Final						
Final	329		329 /500	P	307	329	636 /1000		FIRST			

JAIPUR

(For Notes, Please see on reverse)

Result declared on 19/10/03

Amu Q
Controller of Examinations

Hoshiyar Singh

UNIVERSITY OF RAJASTHAN (REVALUATION)

18

Copy of Marks obtained at the

M.A/M.Sc.(Final) MATHEMATICS (4516) EXAM. 2003

Roll No. 2663

En. No. 98/26896

Category REGULAR

Name HOSHIYAR SINGH

Ordinance 169-E(ii)

Sub. Code Y
Medium ENGLISH

Father's Name PHOOL SINGH

Mother's Name BHANVREE DEVI

College/Dept./Centre

UNIVERSITY DEPTT. OF MATHEMATICS, JAIPUR



UNIVERSITY DEPTT. OF MATHEMATICS, JAIPUR		Max. Marks	Min. Marks	Marks obtd.		Status
PAPER(S) OFFERED		Marks	Marks	Prev.	Final	
No.	Narration					
III-old	5606- DIFFERENTIAL GEOMETRY & TENSEN	100	25	77		
IV-old	5607- RIZID DYNAMICS & HYDRODYNAM	100	25	51		
I	7301- ADVANCED ANALYSIS	100	25			65
II	7302- CONTINUUM MECHANICS	100	25			81
V	7305- BOUNDARY LAYER THEORY	100	25			53
X	7310- INTEGRAL TRANSFORMS	100	25			68
XIII	7313- RELATIVITY	100	25			62

EXAMINATION	Marks in Papers offered	Marks in Papers attempted	Aggregate Marks	Pass/Fail	Marks to be taken into account for award of degree		Combined marks of Previous & Final	Passed in Division
					Previous	Final		
Previous	128	179	307 /500	P	Previous	Final		
Final	329	--	329 /500	P	307	329	636 /1000	FIRST

(For Notes, Please see on reverse)

Result declared on

19/10/03

Annu Q
Controller of Examinations

Hoshiyar Singh

297

Fuehsliyan Singla

अनुक्रमांक 24130
(Roll No.)

राजस्थान विश्वविद्यालय

जयपुर

हम, राजस्थान विश्वविद्यालय के कुलाधिपति, कुलपति तथा सेनेट के सदस्य, प्रमाणित करते हैं कि अग्रवाल कालेज, जयपुर के होशियार सिंह

को सन् 2001 की परीक्षा प्रथम श्रेणी में उत्तीर्ण घोषित होने पर

बैचलर ऑफ साइन्स

की उपाधि प्रदान की गई।

प्रमाण-पत्र इस विश्वविद्यालय की मुद्रा और कुलपति के हस्ताक्षर से अंकित किया जाता है।

We, the Chancellor, Vice-Chancellor
and the Members of the Senate of the
University of Rajasthan
JAIPUR

Certify that
Hoshiyar Singh

Agrawal College, Jaipur

having been examined for the Degree of Bachelor of Science in 2001 and found qualified for the same, the Degree of

Bachelor of Science

has been conferred on him. He was placed in First Division.

In Testimony whereof are set the Seal of the said University and the signature of the said Vice-Chancellor.



Hoshiyar Singh

Khushma
कुलपति

UNIVERSITY OF RAJASTHAN

ORIGINAL

Copy of marks obtained at the B.Sc. Part III Examination, 2000-2001

(Under 10+2+3 Scheme)

Roll No. 24130

Name Hoshiyar Singh

Medium : Hindi/English

Name of Father Phool Singh Category : Regular/Ex-Student/Non-Collegiate

S. No.	Subjects/Papers etc.	Maximum Marks	Minimum Pass Marks	Marks obtained					Total Marks obtained in the subject	Remarks, if any		
				Theory			Total marks obtained in the Theory Papers	Practical				
				Paper-I	Paper-II	Paper-III						
Compulsory Subjects :-												
B.Sc. Part I Examination under 10+2+3 scheme												
1	General Hindi/Elementary Hindi	100	36									
2	General English	100	36									
3	Name of subject/paper in which due to appear at the B.Sc. Part I Exam. under 10+2+3 scheme Theory Practical									Passed/Failed		
4	Name of subject/paper in which due to appear at the B.Sc. Part II Exam. under 10+2+3 scheme Theory Practical									Passed/Failed		
Optional Subjects (Ticked below):-												
1	Physics Theory—Three Papers (First Two Papers of 33 each & Third of 34) Practical	100 50	36 18	22	18	26	66	38	104	60-0		
2	Chemistry Theory—Three Papers (First Two Papers of 33 each & Third of 34) Practical	100 50	36 18	18	24	23	65	42	107			
3	Mathematics—Three Papers of 50 each	150	54	38	19	47			134			
4	Geography Practical	50	18									
5	Statistics/Applied Statistics Theory—Two Papers of 50 each Practical	100 50	36 18									
6	Psychology Theory—Two Papers of 50 each Practical	100 50	36 18									
7	Industrial Micro-Biology Theory—Two Papers of 50 each Practical	100 50	36 18									
8	Computer Applications Theory—Two Papers of 50 each Practical	100 50	36 18									
9	Bio-Technology Theory—Two Papers 50 each Practical	100 50	36 18									
10	Industrial Chemistry Theory—Three Papers (First Two Papers of 33 each & Third of 34) Practical	100 50	36 18									
11	Electronic Theory—Three Papers (First Two Papers of 33 each & Third of 34) Practical	100 50	36 18									
Total marks obtained at the B.Sc. Part III Examination											345	Passed/Failed
Total marks obtained at the B.Sc. Part I Examination											217	
Total marks obtained at the B.Sc. Part II Examination											249	
Total marks obtained at the B.Sc. Part III Examination											345	
Grand total of marks obtained at all the Exam. taken together										811	Passed in Div. Pass Class	

JAIPUR, 14-6-2001

Written by 21

Date 7-7-2001 Checked by 1102

Hoshiyar Singh



UNIVERSITY OF RAJASTHAN

S.No. 23103

COPY OF MARKS OBTAINED AT THE B.SC PART-II 2000

ROLL NO. 13407

NAME HOSHIYAR SINGH

E.NO. 98 / 26896 CAT REGULAR

Father's Name PHOOL SINGH

Father's Name PHOOL SINGH		E.NO. 98/ 26896		26896				CAIRGULAR		Remarks
Subject(s) Offered	Max. Marks	Min. Marks	Marks Obtained				Subject Total			
			I	II	III	IV TOTAL				
PART - II										
PHYSICS	-TH	100	36	17	18	25	60	95		
	-PR	50	18	35			35			
CHEMISTRY	-TH	100	36	18	06	23	41	78		
	-PR	50	18	37			37			
MATHEMATICS	-TH	150	54	32	28	16		76		
Total marks obtained excluding compulsory and back log paper/subject(s) marks									249	
YEARWISE TOTAL MARKS OBTAINED			GRAND TOTAL		RESULT / CLASS / DIVISION					
PART-I	PART-II	PART-III	249		PASS					

G-Passed by Grace S-Eligible for Supplementary F-Failed A-Absent

MEDIUM: HINDI
JAIPURResult declared on 04-07-2000
(For Notes, Please see on reverse)

Controller of Examinations

Hoshiyar Singh



UNIVERSITY OF RAJASTHAN

COPY OF MARKS OBTAINED AT THE B.SC.PT.I. 1999

03819

Roll No. 05770

Name HOSHIYAR SINGH

E.No. 98/26896 Catg.

REGULAR

Father's Name

PHOOL SINGH

Subject(s) Offered	Max. Marks	Min. Marks	Marks Obtained				Subject Total	Remarks
			I DRW-I	II DRW-II	III W/Sub	IV Total		
COMPULSORY *****							51	
GENERAL HINDI	100	36					45	
GENERAL ENGLISH	100	36						
CORE SUBJECTS *****								
PHYSICS -TH	100	36	17	12	14	45	71	
-PR	50	18	26			26		
CHEMISTRY -TH	100	36	15	12	12	39	72	
-PR	50	18	33			33		
MATHEMATICS	150	54	30	19	25		74	
Total marks obtained excluding compulsory and back log paper/subject(s) marks.							217	
YEARWISE TOTAL MARKS OBTAINED			GRAND TOTAL		RESULT/CLASS / DIVISION			
PART-I	PART-II	PART-III	217		PASS			

G-Passed by Grace H-Held for Supplementary F-Failed A-Absent

09/07/99

MEDIUM:
JAIPUR

Result declared on
(for notes, please see on reverse)

Controller of Examinations

Hoshiyar Singh

REF.NO 152667

क्रमांक 154912
Serial No

माध्यमिक शिक्षा बोर्ड, राजस्थान
Board of Secondary Education, Rajasthan



माध्यमिक परीक्षा 1996

Secondary School Examination 1996

नामक प्रमाणित किया जाता है कि
Roll No. 738147 This is to certify that HOSHIYAR SINGH
SON OF PHOOL SINGH

जन्म दिनांक
Date of Birth THIRTIETH JUNE NINETEEN HUNDRED AND EIGHTY

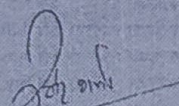
ने माह मार्च / अप्रैल सन् 1996 में आयोजित माध्यमिक परीक्षा
has appeared in March/April 1996 at the Secondary School Examination from
GOVT JAI SINGH SR SEC SCH, KHETRI

में निम्न विषयों में उत्तीर्ण की
and passed in the following subjects:

- | | | |
|-------------|---------------|--------------------|
| 1. HINDI | 2. ENGLISH | 3. SCIENCE |
| 4. SOC. SC. | 5. MATHS. | 6. TL-SANSKRIT - D |
| 7. SUPW&CS | 8. H & P EDU. | 9. ART EDU. |

सही श्रेणी
Passed in Division FIRST Category FULL SUBJECTS

अग्रमेर
Amr
दिनांक
Dated 28TH JUNE 1996


सचिव
Secretary

D indicates distinction in the subject

नियमित अभ्यर्थियों को आंतरिक मूल्यांकन प्रमाण पत्र मुख्य परीक्षा की अकादमिक के साथ दिया गया है।
Regular Candidates have been given the certificate of Internal Assessment along with mark sheet of main Examination.

Hoshiyar Singh



माध्यमिक शिक्षा बोर्ड, राजस्थान
माध्यमिक परीक्षा, 1996
अंक-तालिका

क्रमांक

388036

क्रमांक	केन्द्र	जिला	स्कूल/अग्रे. अधि.	जन्म दिनांक	स्वयंपाठी/नियोगा	श्रेणी	संदर्भ संख्या
738147	1733	15	505	30/06/80	REGULAR	1	310873

परीक्षार्थी का नाम HOSHIYAR SINGH

PHOOL SINGH

पिता का नाम

विषय एवं कुल/न्यूनतम उत्तीर्णक	हिन्दी 100/33				अंग्रेजी 100/33				विज्ञान 100/33			
	I	II	सत्रिक	योग	I	II	सत्रिक	योग	I	II	सत्रिक	योग
प्राप्तांक	30	19	08	57	27	30	08	65	21	23	09	53
विषय एवं कुल/न्यूनतम उत्तीर्णक	सामाजिक विज्ञान 100/33				गणित 100/33				संस्कृत भाषा 50/17			
	I	II	सत्रिक	योग	I	II	सत्रिक	योग	I	सत्रिक	योग	
प्राप्तांक	17	35	07	59	39	26	09	74	SANSKRIT	33	05	38D
कुल प्राप्तांक	550	कुल प्राप्तांक	346	परिणाम	FIRST DIVISION							

विषय	समाजीक/योगी उत्पादक कार्य एवं समाज सेवा	स्वस्थ एवं सांस्कृतिक शिक्षा	कला शिक्षा/पुनः स्वावलंबीय शिक्षा
ग्रेडिंग	B	B	B

अंकित

28TH JUNE 1996

दिनांक

(क. प. र. - विशेष निरीक्षण हेतु)

(Signature)

निदेशक (परीक्षा)

Hoshiyar Singh

REF. NO

020727

क्रमांक

020789

Serial No.

माध्यमिक शिक्षा बोर्ड, राजस्थान
Board of Secondary Education, Rajasthan



उच्च माध्यमिक परीक्षा 1998
Senior Secondary Examination 1998

नामक

Roll No.

044913

प्रमाणित किया जाता है कि

This is to certify that

HOSHIYAR SINGH

SON OF

PHOOL SINGH

ने माह अप्रैल, सन् 1998 में आयोजित उच्च माध्यमिक परीक्षा

has appeared in April 1998 at the Senior Secondary Examination from

GOVT JAI SINGH SR SEC SCH, KHETRI

से निम्न विषयों में उत्तीर्ण की

and passed in the following subjects:

वर्ग

Group: SCIENCE

1. HINDI (COMP)

2. ENGLISH (COMP)

3. PHYSICS

4. CHEMISTRY

5. MATHS.

उत्तीर्ण श्रेणी

Passed in Division

SECOND

श्रेणी

Category

FULL SUBJECTS

अजमेर

Ajmer

दिनांक

Dated

24TH JUNE, 1998

सचिव

Secretary

D - Indicates distinction in the subject.

NB: The word (COMP) has been shown against compulsory subjects and rest all are optional.

Hoshiyar Singh



माध्यमिक शिक्षा बोर्ड, राजस्थान

क्रमांक 041990

उच्च माध्यमिक परीक्षा, 1998

अंक-तालिका

सत्रांक	रोल नं.	विभाग	समूह/श्रेणी	स्वतंत्रता/निर्दिष्ट	श्रेणी	संदर्भ संख्या
044913	1672	15	505	REGULAR	1	441868

परीक्षार्थी का नाम HOSHIYAR SINGH

पिता का नाम PHOOL SINGH

अभिष्ट/विषय	पूर्णांक			व्युत्पन्न/अधीनस्थ		भाषांक				
	विद्य.	सहाय.	अन्य	संख्या	प्रतिशत	I	II	सहाय.	योग	अंका.
HINDI	90	10		33		44		08	52	52
ENGLISH	90	10		33		36		06	42	42
PHYSICS	90	10	50	33	17	22	21	07	50	36
CHEMISTRY	90	10	50	33	17	20	15	08	43	43
MATHS.	135	15		50		37	42	12	91	91

कुल पूर्णांक	650	कुल प्राप्तांक	355	54.62 %	परिणाम	SECOND DIVISION
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अतिरिक्त विवर	संस्थान	संस्थान	संस्थान	संस्थान	संस्थान	संस्थान	संस्थान	संस्थान	संस्थान	संस्थान
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दिनांक 24 TH JUNE, 1998

Hoshiyar Singh



भारतीय विशिष्ट पहचान प्राधिकरण

भारत सरकार
Unique Identification Authority of India
Government of India

नामांकन क्रम / Enrollment No.: 1047/80008/00277

To
होशियार सिंह
Hoshiyar Singh
S/O: Phool Singh
ward no. 3 rajota th. khetri Rajota
Khetri Khetri Jhunjhunun
Rajasthan 333503
9314588339

19/12/2011



UG16033432184



आपका आधार क्रमांक / Your Aadhaar No. :

3876 7842 4198

आधार — आम आदमी का अधिकार



भारत सरकार
GOVERNMENT OF INDIA



होशियार सिंह
Hoshiyar Singh
जन्म वर्ष / Year of Birth : 1980
पुरुष / Male

3876 7842 4198



आधार — आम आदमी का अधिकार

राजो
खेती राजो
हुंजुन

Hoshiyar Singh



Hoshiyar Singh