

## GLA University (Track ID: UPUNGN11537)

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विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**मनोज कुमार**

(पुत्र श्रीमती विन्ध्यवासिनी देवी एवं श्री घनश्याम नारायण चौबे)

को **कम्प्यूटर साइंस एण्ड इंजीनियरिंग** में **विद्या वाचस्पति**

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त  
समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् **2017** में प्रदान की जाती है।



# GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*  
**Doctor of Philosophy in Computer Science & Engineering**

*is hereby conferred upon*

**MANOJ KUMAR**

(S/o Smt. Vindhyavasini Devi & Shri Ghanshyam Narayan Choubey)

*who has successfully completed the curriculum prescribed by the*  
*University for the award of this degree in the year* **2017**

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **"Detecting Multiple Moving Objects and Interpreting their Motion Pattern in Crowded Environment"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : November 01, 2017



*Shanhan*  
कुलपति  
Vice-Chancellor





# जी०एल०ए० विश्वविद्यालय, मथुरा



ऋते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**शिव दुर्गा**

(पुत्री श्रीमती वसुमति एवं श्री वासुदेवन्)

को **इंग्लिश में विद्या वाचस्पति**

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु  
विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त  
समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ  
एतद्वारा सन् 2017 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in English**

*is hereby conferred upon*

**SHIVA DURGA**

(D/o Smt. Vasumathi & Shri Vasudevan)

*who has successfully completed the curriculum prescribed by the  
University for the award of this degree in the year 2017*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **"The Impact of the Bhagavad Gita on R. W. Emerson"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : November 01, 2017



*Shankar*  
कुलपति  
Vice-Chancellor




Ref. No. : PDDC-16/Exam./RO/GLAU/2017

Date: 02.09.2017



### PROVISIONAL DOCTORAL DEGREE CERTIFICATE

This is to certify that Ms. Shiva Durga (Roll No. 109240001, Aadhar Number : 904507423366), Department of English, has successfully completed the prescribed programme of study and presented the thesis entitled "The Impact of the Bhagavad Gita on R. W. Emerson" for the award of degree of Doctor of Philosophy under the supervision of Prof. Anoop Kumar Gupta, Director, Institute of Applied Sciences and Humanities, and co-supervision of Prof. Nitin Bhatnagar, Head, Department of English, GLA University, Mathura. She has successfully completed the open defense/Viva-voce examination on July 23, 2017. The degree will be awarded to her at the next Convocation of the University.

  
(Ashok Kumar Singh)  
Registrar


N.B. : This Provisional Certificate is valid till the Degree is awarded.



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in India\*\* by THE TIMES OF INDIA

\*Amongst all private universities, Survey 2015 & 2016 \*\*Amongst top emerging private universities, Survey 2016

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Please use this identifier to cite or link to this item: <http://hdl.handle.net/10603/221051>

Title:	Status of Non Functional Requirements Focused Practices and Their Impact on Project and Business Success
Researcher:	Chopra Raj Kumar
Guide(s):	Durg Singh Chauhan and Varun Gupta (/jspui/browse?type=author&value=Durg+Singh++Chauhan+and+Varun+Gupta)
Keywords:	Arts and Humanities Practices and Their Impact on Project and Business Success
University:	GLA University
Completed Date:	2017
Abstract:	Software applications are composed of functional requirements and non functional requirements. Functional requirements are demanded by every user and on the other hand the non functional requirements are handled in Adhoc nature due to inability of these requirements to provide necessary functionality. In ever changing dynamic environment with more focus on time to market and software quality, the survival of business unit is highly probabilistic. Imposition of such challenges is usually handled as solution strategies in business unit policies. But such policies are focused on handling functionality rather than non functional requirements. It had been due to limited work as available in literature related to empirical studies on non functional requirements and their contribution to business units. This thesis aims to carry the empirical studies including surveys, case studies and experimentations to achieve the below mentioned objectives: and#61623; First, to empirically study the manner non functional requirements get attention of the software engineer during development of mobile apps like m-commerce apps in relation to functional apps. and#61623; Second, to empirically analyze the contribution of non functional requirements in various project parameters like cost, time, project success etc. Such parameters are of prime interest as they determine survival of the firm in highly dynamic environment. The impact of non functional requirements on project success is determined by performing surveys and case studies individually and relative to each other. Sources for data collection include the industries, academics and the literature. and#61623; Third, to empirically study the impact of non functional requirements on overall business success of both developing firm and software procuring firm. Project success may or may not lead to business success. The empirical analyses converged in the final understanding that the non functional requirements of the software are essential not only to software developing firm but also to firm procuring the
Pagination:	xii, 133p.
URI:	<a href="http://hdl.handle.net/10603/221051">http://hdl.handle.net/10603/221051</a> ( <a href="http://hdl.handle.net/10603/221051">http://hdl.handle.net/10603/221051</a> )
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03_certificate.pdf (/jspui/bitstream/10603/221051/2/03_certificate.pdf)		39.33 kB	Adobe PDF	<a href="#">View/Open (/jspui/bitstream/10603/221051/2/03_certificate.pdf)</a>



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# जी०एल०ए० विश्वविद्यालय, मथुरा



ऋते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**अमित कुमार**

(पुत्र श्रीमती मालती देवी एवं श्री श्रवण कुमार)

को प्रबंधन में विद्या वाचस्पति

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ एतद्द्वारा सन् 2017 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Management**

*is hereby conferred upon*

**AMIT KUMAR**

(S/o Smt. Malti Devi & Shri Shrwan Kumar)

*who has successfully completed the curriculum prescribed by the University for the award of this degree in the year 2017*

with all Honours, Privileges, and obligations thereunto

Title of Thesis : **"An Analysis of Political Branding from the Indian Democratic Perspective"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : November 01, 2017



*Shanhan*  
कुलपति  
Vice-Chancellor



# जी०एल०ए० विश्वविद्यालय, मथुरा



ऋते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**विशाल खण्डेलवाल**

(पुत्र श्रीमती सरोज खण्डेलवाल एवं श्री लक्ष्मण प्रसाद खण्डेलवाल)

को बायोटेक्नोलॉजी में विद्या वाचस्पति

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् 2017 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Biotechnology**

*is hereby conferred upon*

**VISHAL KHANDELWAL**

(S/o Smt. Saroj Khandelwal & Shri Laxman Prasad Khandelwal)

*who has successfully completed the curriculum prescribed by the*

*University for the award of this degree in the year 2017*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : "Studies on Antimicrobial and Immunomodulatory Properties of *Anthocephalus cadamba* with Reference to Cytokine(s) Induction and their Expression"



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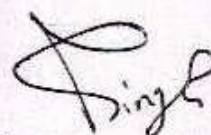


Ref. No. : PDDC-20/Exam./RO/GLAU/2017

Date: 28.09.2017

### PROVISIONAL DOCTORAL DEGREE CERTIFICATE

This is to certify that Mr. Upendra Kumar Giri (Roll No. 149221002, Aadhar Number : 762352095256), Department of Physics, has successfully completed the prescribed programme of study and presented the thesis entitled "A Study in Patient Specific Imaging, Consistency, Setup Error and Dose Verification in Modern Radiotherapy Implementation" for the award of degree of Doctor of Philosophy under the supervision of Prof. Anirudh Pradhan, Department of Mathematics, and co-supervision of Prof. B. R. K. Gupta, Department of Physics, GLA University, Mathura. He has successfully completed the open defense/Viva-voce examination on September 23, 2017. The degree will be awarded to him at the next Convocation of the University.



(Ashok Kumar Singh)  
Registrar

N.B. : This Provisional Certificate is valid till the Degree is awarded.

Received

Upendra Kumar Giri  
28/09/2017





विश्वविद्यालय की विद्या परिषद की अनुशंसा पर  
**बिप्लब सरकार**  
 (पुत्र श्रीमती रेनुका सरकार एवं श्री सुभेन्दु सरकार)  
 को **भौतिकी में विद्या वाचस्पति**  
 की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु  
 विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त  
 समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ  
 उत्तद्द्वारा सन् 2017 में प्रदान की जाती है।



# GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Physics**

*is hereby conferred upon*

**BIPLAB SARKAR**

(S/o Smt. Renuka Sarkar & Shri Subhendu Sarkar)

*who has successfully completed the curriculum prescribed by the  
 University for the award of this degree in the year 2017*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **"A Study on Implementation of New Improved Methodologies in Modern  
 Radiotherapy for Better Clinical Practice"**







Ref. No. : PDDC-21/Exam./RO/GLAU/2017

Date: 11.10.2017

### PROVISIONAL DOCTORAL DEGREE CERTIFICATE

This is to certify that Mr. Biplab Sarkar (Roll No. 149221001, Aadhar Number : 305836608878), Department of Physics, has successfully completed the prescribed programme of study and presented the thesis entitled "A Study on Implementation of New Improved Methodologies in Modern Radiotherapy for Better Clinical Practice" for the award of degree of Doctor of Philosophy under the supervision of Prof. Anirudh Pradhan, Department of Mathematics, and co-supervision of Prof. B. R. K. Gupta, Department of Physics, GLA University, Mathura. He has successfully completed the open defense/Viva-voce examination on October 07, 2017. The degree will be awarded to him at the next Convocation of the University.

(Ashok Kumar Singh)

Registrar

N.B. : This Provisional Certificate is valid till the Degree is awarded.



# जी०एल०ए० विश्वविद्यालय, मथुरा



ऋते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**आशीष शर्मा**

(पुत्र श्रीमती मनोरमा शर्मा एवं श्री माधव प्रसाद शर्मा)

को **कम्प्यूटर साइंस एण्ड इंजीनियरिंग में विद्या वाचस्पति**

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् 2017 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Computer Science & Engineering**

*is hereby conferred upon*

**ASHISH SHARMA**

(S/o Smt. Manorma Sharma & Shri Madhav Prasad Sharma)

*who has successfully completed the curriculum prescribed by the*

*University for the award of this degree in the year 2017*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **"Approximation Clustering Algorithms for Facility Location Problems"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : November 01, 2017



*Sharma*  
कुलपति  
Vice-Chancellor



# जी०एल०ए० विश्वविद्यालय, मथुरा



ऋते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**आशीष शुक्ला**

(पुत्र श्रीमती प्रेमलता शुक्ला एवं श्री सुरेन्द्र बाबू शुक्ला)

को इलेक्ट्रॉनिक्स एण्ड कम्युनिकेशन इंजीनियरिंग में विद्या वाचस्पति

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् 2017 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*  
**Doctor of Philosophy in Electronics & Communication Engg.**

*is hereby conferred upon*

**AASHEESH SHUKLA**

(S/o Smt. Premlata Shukla & Shri Surendra Babu Shukla)

*who has successfully completed the curriculum prescribed by the*  
*University for the award of this degree in the year 2017*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : " **Role of Chaos in Spread Spectrum Systems** "

मथुरा (उ०प्र०), भारत  
 Mathura (U.P.), India  
 Date : November 01, 2017



*Shankar*  
 कुलपति  
 Vice-Chancellor





# जी०एल०ए० विश्वविद्यालय, मथुरा



अते ज्ञानान् मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**सौरभ गुप्ता**

(पुत्र श्रीमती नीरु गुप्ता एवं श्री श्रीकृष्ण)

को बायोटेक्नोलॉजी में विद्या वाचस्पति

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

एतद्द्वारा सन् 2017 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Biotechnology**

*is hereby conferred upon*

**SAURABH GUPTA**

(S/o Smt. Neeru Gupta & Shri Shri Krishna)

*who has successfully completed the curriculum prescribed by the*

*University for the award of this degree in the year 2017*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : "Studies on Immunogenicity of Secretory Proteins of *Mycobacterium avium* sub-species paratuberculosis"

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : November 01, 2017



*[Signature]*  
कुलपति  
Vice-Chancellor



# जी०एल०ए० विश्वविद्यालय, मथुरा



अते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**प्रदीप कुमार चौधरी**

(पुत्र श्रीमती शशि प्रभा चौधरी एवं श्री राम मिलन चौधरी)

को **बायोटेक्नोलॉजी में विद्या वाचस्पति**

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् 2017 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Biotechnology**

*is hereby conferred upon*

**PRADEEP KUMAR CHOUDHARY**

(S/o Smt. Shashi Prabha Choudhary & Shri Ram Milan Choudhary)

*who has successfully completed the curriculum prescribed by the*

*University for the award of this degree in the year 2017*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **"Antimicrobial and Immunomodulatory Activity of Solanum xanthocarpum with reference to cytokines induction and their expression"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : November 01, 2017



*Shankar*  
कुलपति  
Vice-Chancellor





# जी०एल०ए० विश्वविद्यालय, मथुरा



विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**अनन्त राम**

(पुत्र श्रीमती कौशल्या रानी एवं श्री गोरे लाल)

को **कम्प्यूटर साइंस एण्ड इंजीनियरिंग** में **विद्या वाचस्पति**

की उपाधि उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् 2017 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Computer Science & Engineering**

*is hereby conferred upon*

**ANANT RAM**

(S/o Smt. Kaushlya Rani & Shri Gore Lal)

*who has successfully completed the curriculum prescribed by the University for the award of this degree in the year 2017*

with all Honours, Privileges, and obligations thereunto

Title of Thesis : **Density Based Geographic Routing Protocols in Vehicular Ad Hoc Networks**





# जी०एल०ए० विश्वविद्यालय, मथुरा



ऋते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**जीतेन्द्र कुमार गुप्ता**

(पुत्र श्रीमती बिन्दू देवी एवं श्री मुनिलाल प्रसाद)

को **फार्मेसी में विद्या वाचस्पति** की उपाधि

उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त  
समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ  
उत्तद्द्वारा सन् 2018 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Pharmacy**

*is hereby conferred upon*

**JEETENDRA KUMAR GUPTA**

(S/o Smt. Bindu Devi & Shri Munilal Prasad)

*who has successfully completed the curriculum prescribed by the  
University for the award of this degree in the year 2018*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **" Synthesis and Pharmacological Evaluation of some Novel Triazoles "**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : December 09, 2018



*Shanker*

कुलपति  
Vice-Chancellor






Ref. No. : PDDC-01/Exam./RO/GLAU/2017-18

Date: 27.12.2017

### PROVISIONAL DOCTORAL DEGREE CERTIFICATE

This is to certify that Mr. Jeetendra Kumar Gupta (Roll No. 109441001, Aadhar Number : 504171775608), Department of Pharmacy, has successfully completed the prescribed programme of study and presented the thesis entitled "Synthesis and Pharmacological Evaluation of some Novel Triazoles" for the award of degree of Doctor of Philosophy under the supervision of Prof. Pradeep Mishra, Director, Institute of Pharmaceutical Research, GLA University, Mathura. He has successfully completed the open defense/Viva-voce examination on December 16, 2017. The degree will be awarded to him at the next Convocation of the University.

  
(Ashok Kumar Singh)  
Registrar 

N.B. : This Provisional Certificate is valid till the Degree is awarded.

# जी०एल०ए० विश्वविद्यालय, मथुरा



अतः ज्ञानान्त्र मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**पूजा गोयल**

(पुत्री श्रीमती दया गोयल एवं श्री वेद प्रकाश)

को **बी०ए०टैक्नोलॉजी** में **विद्या वाचस्पति** की उपाधि

उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् 2018 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Biotechnology**

*is hereby conferred upon*

**PUJA GOEL**

(D/o Smt. Daya Goel & Shri Ved Prakash)

*who has successfully completed the curriculum prescribed by the University for the award of this degree in the year 2018*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **"Optimization of *in vitro* Embryo Development Potential with Special Reference to Blastocyst Production in Goats"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : December 09, 2018



*[Signature]*  
कुलपति  
Vice-Chancellor





# जी०एल०ए० विश्वविद्यालय, मथुरा



ऋते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**हरसिमरन कौर**

(पुत्री श्रीमती बलविंदर जीत कौर एवं श्री दलजीत सिंह)

को **कम्प्यूटर साइंस एण्ड इंजीनियरिंग** में **विद्या वाचस्पति** की उपाधि

उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तुङ्गता सन् 2018 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Computer Science & Engineering**

*is hereby conferred upon*

**HARSIMRAN KAUR**

(D/o Smt. Balwinder Jit Kaur & Shri Daljit Singh)

*who has successfully completed the curriculum prescribed by the University for the award of this degree in the year 2018*

with all Honours, Privileges, and obligations thereunto

Title of Thesis : **"An Early Identification, Specification and Modelling of Non-Functional Requirements using SRS Document"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : December 09, 2018



*A. Chander*  
कुलपति  
Vice-Chancellor



# जी०एल०ए० विश्वविद्यालय, मथुरा



ऋते ज्ञानान्न मुक्तिः

विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**शोभा बंसल**

(पुत्री श्रीमती पिस्ता देवी बंसल एवं श्री जगदीश प्रसाद बंसल)

को **रसायन विज्ञान में विद्या वाचस्पति** की उपाधि

उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त

समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् 2018 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Chemistry**

*is hereby conferred upon*

**SHOBHA BANSAL**

(D/o Smt. Pista Devi Bansal & Shri Jagdeesh Prasad Bansal)

*who has successfully completed the curriculum prescribed by the University for the award of this degree in the year 2018*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **"Study of Bismuth Nitrate Pentahydrate, An Useful and Efficient Catalyst for the Epoxide Ring Opening and Synthesis of Some Heterocyclic Compounds"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : December 09, 2018



*Shambhu*  
कुलपति

Vice-Chancellor





# जी०एल०ए० विश्वविद्यालय, मथुरा



विश्वविद्यालय की विद्या परिषद की अनुशंसा पर

**उमेश कुमार शर्मा**

(पुत्र श्रीमती पूनम शर्मा एवं श्री प्रेम दत्त शर्मा)

को **गणित** में **विद्या वाचस्पति** की उपाधि

उनके द्वारा इस उपाधि की अवाप्ति हेतु

विश्वविद्यालय द्वारा विहित पाठ्यक्रम को सफलतापूर्वक पूर्ण करने के उपरान्त समस्त सम्मानों, विशेषाधिकारों, एवं दायित्वों के साथ

उत्तद्द्वारा सन् 2018 में प्रदान की जाती है।



## GLA University, Mathura

*On recommendations of the Academic Council of the University, the degree of*

**Doctor of Philosophy in Mathematics**

*is hereby conferred upon*

**UMESH KUMAR SHARMA**

(S/o Smt. Poonam Sharma & Shri Prem Dutt Sharma)

*who has successfully completed the curriculum prescribed by the University for the award of this degree in the year 2018*

**with all Honours, Privileges, and obligations thereunto**

Title of Thesis : **"On Some Homogeneous Anisotropic Cosmological Models in Einstein's Modified Field Equations"**

मथुरा (उ०प्र०), भारत  
Mathura (U.P.), India  
Date : December 09, 2018



कुलपति  
Vice-Chancellor



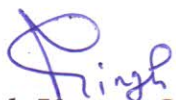



Ref. No. : PDDC-04/Dean (R&D)/RO/GLAU/2017-18

Date: 29.03.2018

### PROVISIONAL DOCTORAL DEGREE CERTIFICATE

This is to certify that Mr. Umesh Kumar Sharma (Roll No. 119211003, Aadhar Number: 662174442509), Department of Mathematics, has successfully completed the prescribed programme of study and presented the thesis entitled "**On Some Homogeneous Anisotropic Cosmological Models in Einstein's Modified Field Equations**" for the award of degree of Doctor of Philosophy under the supervision of Prof. Anirudh Pradhan, Department of Mathematics, GLA University, Mathura. He has successfully completed the open defense/Viva-voce examination on **March 09, 2018**. The degree will be awarded to him at the next Convocation of the University.

  
(Ashok Kumar Singh)  
Registrar  


N.B. : This Provisional Certificate is valid till the Degree is awarded.