

# UNIVERSITY OF MYSORE

ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and  
Members of the Syndicate of the University of Mysore  
do hereby certify that*

ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಮಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು

ಹಾಗೂ ಸಿಂಡಿಕೇಟಿನ ಸದಸ್ಯರಾದ ನಾವು

**RAJANNA K R**

*has been awarded the Degree of*

ಅವರು ನಿಗದಿತ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಉತ್ತೀರ್ಣರಾಗಿರುವುದರಿಂದ

**DOCTOR OF PHILOSOPHY**

**in**

**MATHEMATICS**

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ



*on being duly certified to have passed the prescribed examination*

ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರದಾನ ಮಾಡಲಾಗಿದೆಯೆಂದು ಪ್ರಮಾಣೀಕರಿಸುತ್ತೇವೆ

*Given under the seal of the University*

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ

Date of Convocation 10-04-2011

ಘಟಿಕೋತ್ಸವದ ದಿನಾಂಕ

Mysore/ಮೈಸೂರು

Sl.No./ಕ್ರಮ ಸಂಖ್ಯೆ No 265



*[Signature]*  
Vice-Chancellor

ಕುಲಪತಿ



**ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ**  
 ("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)  
 "ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-೫೯೦೦೧೮, ಕರ್ನಾಟಕ, ಭಾರತ  
**Visvesvaraya Technological University**  
 (State University of Government of Karnataka Established as per the VTU Act, 1994)  
 "Jnana Sangama" Belagavi-590018, Karnataka, India

### RESEARCH SUPERVISOR FINAL APPLICATION REPORT

REGISTRATION ID	5317	
RESEARCH SUPERVISOR NAME	RAJANNA K R	
AADHAAR NUMBER	776714945627	
MOBILE PHONE NUMBER	9845475725	
EMAIL-ID	rajanna@acharya.ac.in	

### PERSONAL DETAILS

GENDER	DESIGNATION	DATE OF BIRTH	TALUKA	DISTRICT	STATE	NATIONALITY	PIN
MALE	PROFESSOR	1972-06-01	BANGALORE URBAN	BANGALORE URBAN	KARNATAKA	INDIAN	560091

PERMANENT ADDRESS	CORRESPONDENCE ADDRESS
NO.408 3RD A MAIN HEALTH LAYOUT SRIGANDADA KAVAL BENGALURU 91	DEPARTMENT OF MATHEMATICS ACHARYA INSTITUTE OF TECHNOLOGY ACHARYA DR SARVEPALLI RADHAKRISHNAN ROAD ACHARYA POST BENGALURU 107

### ACADEMIC DETAILS

PROGRAMME	UG	PG	Ph. D.
DEGREE DETAILS	B.SC	M.SC	REGISTERED YEAR - 2007

PROGRAMME	UG	PG	Ph. D.
	PHYSICS MATHEMATICS AND ELECTRONICS	MATHEMATICS	TITLE - AN ELUCIDATIVE STUDY IN THE FIELD OF Q SERIES AND CONTINUED FRACTIONS
	BENGALURU UNIVERSITY	BENGALURU UNIVERSITY	SPECIALIZATION - NUMBER THEORY
			FACULTY - MATHEMATICS
			UNIVERSITY NAME - UNIVERSITY OF MYSORE
DEGREE TYPE	FULL TIME	FULL TIME	PART TIME
RESULT	MARKS	MARKS	NUMBER OF PRESCRIBED COURSE WORK COMPLETED - 0
	600	1000	
	314	600	
	191.08	166.67	
YEAR OF COMPLETION [PDC / CONVOCATION (ENTER THE EARLIEST YEAR)]	1994	1998	2010

### PROFESSIONAL DETAILS

PRESENT WORKING COLLEGE	PRESENT WORKING BRANCH
AY ACHARYA INSTITUTE OF TECHNOLOGY, BANGALORE	MAT



PARTICULARS	FROM	TO	YEAR(S) / MONTH(S)
LECTURER	1998-02-02	2005-02-15	7 YEARS, 15 DAYS
ASST.PROFESSOR	2005-02-16	2011-07-14	6 YEARS, 4 MONTHS, 29 DAYS
ASSC.PROFESSOR	0000-00-00	0000-00-00	
PROFESSOR	2011-07-15	2021-06-24	9 YEARS, 11 MONTHS, 17 DAYS
TOTAL TEACHING EXPERIENCE =			23 YEARS, 4 MONTHS, 26 DAYS

INDUSTRY EXPERIENCE (YEARS)	RESEARCH EXPERIENCE (YEARS)	MEMBERSHIP IN PROFESSIONAL BODIES	No. OF PAPERS PUBLISHED LAST 3 YEARS	FACULTY	FACULTY DISCIPLINE
0.00	13.00	7	8	FACULTY OF APPLIED SCIENCES	MATHEMATICS - FACULTY OF APPLIED SCIENCES

#### SPECIALIZATION IN WHICH RESEARCH GUIDANCE CAN BE TAKEN

NUMBER THEORY , GRAPH THEORY

#### NO. OF FUNDED / SPONSORED RESEARCH PROJECTS UNDER TAKEN AS PRINCIPAL / CO-INVESTIGATOR

	NUMBER OF PROJECT(S)	TITLE OF PROJECT(S)
COMPLETED	0	NA
ON-GOING	0	NA

#### ACHIEVEMENT DETAILS

NUMBER OF PATENT(S)		AUTHOR(SPECIFY THE NUMBER)			NUMBER OF AWARD(S) RECEIVED		
GRANTED	APPLIED	BOOKS	MONOGRAPHS	CHAPTERS	INTERNATIONAL	NATIONAL	STATE
0	0	2	0	0	0	0	0

ORCID ID	GOOGLE SCHOLAR ID	MICROSOFT RESEARCHER ID	SCOPUS ID
NA	6oj9-bQAAAAJ	NA	NA

### RESEARCH SCHOLAR(S) GUIDANCE DETAILS [FOR INFORMATION ONLY]

CATEGORY OF SUPERVISOR/CO-SUPERVISOR	MAX. NUMBER OF CANDIDATES	SC/ST/CAT-1 CANDIDATES	DIVYANGA / OTHER CATEGORY CANDIDATES	FOREIGN CANDIDATES	GENERAL MERIT CANDIDATES
ASST.PROFESSOR	4	1	1	0	2
ASSC.PROFESSOR	6	1	1	1	3
PROFESSOR	8	1	1	2	4
NOTE: IF A GUIDE DOES NOT ENROL A FOREIGN CANDIDATE, THE VACANT SEAT MAY BE SHIFTED TO GENERAL MERIT.					

### RESEARCH PAPER DETAILS

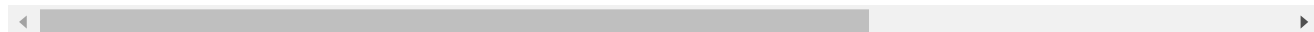
Are you a recognized Research Supervisor in other universities ?

NUMBER OF UNIVERSITIES	NAME OF THE UNIVERSITIES
0	NA

SI.No.	PAPER TITLE	AUTHOR(S)	NAME OF JOURNAL(S)	VOLUME / PAGES	ISSN / ISBN	YEA
1	PERFECT DOMINATION IN BOOK GRAPH AND STACKED BOOK GRAPH	KAVITHA B N, INDRANI PRAMOD KELKAR, RAJANNA K R	INTERNATIONAL JOURNAL OF MATHEMATICS TRENDS AND TECHNOLOGY	56(7),511-514	2349-5758	201
2	SIGNED DOMINATION IN ROOTED PRODUCT OF A PATH WITH A CYCLE GRAPH	RASHMI S B, INDRANI PRAMOD KELKAR, RAJANNA K R	INTERNATIONAL JOURNAL OF MATHEMATICS TRENDS AND TECHNOLOGY	58(1),62-65	2349-5758	201

SI.No.	PAPER TITLE	AUTHOR(S)	NAME OF JOURNAL(S)	VOLUME / PAGES	ISSN / ISBN	YEA
3	INVERSE SUM CONNECTIVITY ENERGY OF A GRAPH	SRIDEVI M J, RAJANNA K R	SOUTH EAST ASIAN J. OF MATH. & MATH. SCI.	14(3),31-48	0972-7752	201
4	SIGNED AND TOTAL SIGNED DOMINATING FUNCTION OF PM RING SUM $SN+1$	RASHMI S B, INDRANI PRAMOD KELKAR, RAJANNA K R	INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS	119(14),193-197	1311-8080	201
5	THETA-FUNCTION IDENTITIES OF LEVEL 8 AND ITS APPLICATION TO PARTITIONS	B R SRIVATSA KUMAR, RAJANNA K R, R NARENDRA	AFRIKA MATEMATIKA	30,2057-267	10129405,21907668	201
6	HARMONIC ENERGY OF A GRAPH	SRIDEVI M J, RAJANNA K R	JOURNAL OF STATISTICS AND MATHEMATICAL ENGINEERING	5(1), 20-26	2581-7647	201
7	RANDIC TYPE ADDITIVE CONNECTIVITY ENERGY OF GRAPH	B PRASHANTH, K NAGENDRA NAIK, RAJANNA K R	VALDIKAVKAZ MATHEMATICS JOURNAL	15(1), 33-42	1339-0015	201
8	THETA-FUNCTION IDENTITIES OF LEVEL 6 AND ITS APPLICATION TO PARTITIONS	B R SRIVATSA KUMAR, RAJANNA K R, R NARENDRA	FILOMAT	33(11),3323-3335	3545180	201

SI.No.	PAPER TITLE	AUTHOR(S)	NAME OF JOURNAL(S)	VOLUME / PAGES	ISSN / ISBN	YEAR
9	NEW THETA-FUNCTION IDENTITIES OF LEVEL 6 IN THE SPIRIT OF RAMANJUN	B R SRIVATSA KUMAR, RAJANNA K R , R NARENDRA	MATHEMATICAL NOTES	106(6),922-929	0001-4346	201
10						



### UPLOADED DOCUMENT DETAILS

SI.No.	DOCUMENT DESCRIPTION	DOCUMENT STATUS
1	APPLICANT'S PHOTO	UPLOADED SUCCESSFULLY.
2	APPLICANT'S SIGNATURE	UPLOADED SUCCESSFULLY.
3	APPLICANT'S AADHAAR CARD (Photocopy)	UPLOADED SUCCESSFULLY.
4	PG DEGREE CERTIFICATE & MARKS CARDS	UPLOADED SUCCESSFULLY.
5	UG DEGREE CERTIFICATE & MARKS CARDS	UPLOADED SUCCESSFULLY.
6	RESEARCH PAPER(s) DOCUMENT(s)	UPLOADED SUCCESSFULLY.
7	Ph.D. DEGREE CERTIFICATE & MARKS CARDS	UPLOADED SUCCESSFULLY.
8	TEACHING EXPERIENCE CERTIFICATE(s)	UPLOADED SUCCESSFULLY.

### RESEARCH SCHOLAR DETAILS

SI.No	USN	Candidate Name	Candidate Category	Candidate Type	Guide Type	Registration Year	Ph.D. Awarded Status [Yes / No]	Ph.D. Awarded Year	Status
1	1AY12PGN04	Devi M.J	GM	PART TIME	Guide	2012	YES	2020	Ph.D. AWARDED
2	1AY13PGN04	MAVITH A B N	GM	PART TIME	Co-Guide	2013	NO	NA	THESIS SUBMITTED

Sl.No	USN	Candidate Name	Candidate Category	Candidate Type	Guide Type	Registration Year	Ph.D. Awarded Status [Yes / No]	Ph.D. Awarded Year	Status
3	1AY13PGJN	Madhusudhan K.V. .	GM	PART TIME	Guide	2013	YES	2020	Ph.D. AWARDED
4	1AY15PGJN	RASHMI S B	GM	PART TIME	Co-Guide	2015	NO	NA	COMPREHENSIVE COMPLETED
5	1AY16PGJN	Narendr a R . .	GM	PART TIME	Guide	2016	NO	NA	COMPREHENSIVE COMPLETED
6	5VX15PGJN	Rashmi P E	GM	PART TIME	Co-Guide	2014	NO	NA	COURSE WORK COMPLETED
7	5VX16PGJN	NAGENDRA NAIK	SC	PART TIME	Co-Guide	2015	NO	NA	COMPREHENSIVE COMPLETED

#### ASSOCIATED RESEARCH CENTER

ACHARYA INSTITUTE OF TECHNOLOGY BANGALORE

I, RAJANNA K R hereby certify that all the information given by me are true to the best of my knowledge. In the event of any information being found incorrect or misleading, my guideship shall be liable to be cancelled by the University at any time. I have carefully studied the applicable regulations of Doctor of Philosophy (Ph. D.).

**DATE: 2021-06-27**

*Rj → KR*



© ೨೦೨೧ ವಿನ್ಯಾಸ ಮತ್ತು ಅಭಿವೃದ್ಧಿಪಡಿಸಿದವರು **ಯೋಜನಾ ನಿರ್ವಹಣೆ ವಿಭಾಗ (ಪಿ. ಎಮ್. ಸಿ)**, ವಿ.ತಾ.ವಿ, ಬೆಳಗಾವಿ.  
ಕರ್ನಾಟಕ. ಭಾರತ.

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