

NAAC – Cycle – 1		
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KI 3.7	M 3.7.1	

3.7.1

Number of functional MoUs /linkage with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

A. Y. 2021-2022

Atmiya University, Rajkot-Gujarat-India
Registrar

Atmiya University

Rajkot





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M 3.7.1



MEMORANDUM OF UNDERSTANDING Between



ATMIYA UNIVERSITY Rajkot, Gujarat, India

and

Cloud Folks, Rajkot

Whereas the above-named institutions recognize that a Memorandum of Understanding (MOU) would be of mutual benefit and would serve as an indication of continued interest in academic cooperation, it is understood that:

- 1. Each institution will promote one or more of the following activities based on their respective Academic and Industrial needs:
 - Skill development programs are conducted by Cloud folk experts at Atmiya
 - Guest lectures are conducted by Cloud folk's experts at Atmiya University.
 - Coursesoffered by cloud folks hub are attended by students of Atmiya University with special discounts.
- 2. Specific exchanges or activities that may be developed under the framework of this MOU shall be mutually discussed and agreed upon in writing by both parties prior to the initiation of that activity. Terms of cooperation and details of exchanges, joint programs or activities are to be developed through bilateral discussion and agreement on a case-by-case basis and attached as additions succeeding to the signing of this MOU. Each institution further agrees to appoint respective coordinators at the appropriate time for the specific activities agreed upon.

3. This MOU will become effective on the date of the last signature. It shall remain in force for a Period of five (5) year/s with the understanding that either institution may terminate it by giving 30 days' notice to the other party in writing, unless an earlier termination date is mutually agreed upon. The MOU may be amended or extended by mutual written consent of the Parties.

The parties hereby establish this MOU by duly signing it as of the respective date below

Mr. Darshan Jani

H.O.D

Department of B.Tech.-IT

Atmiya University

Rajkot

DATE:14/2/2022

SEAL:

Head of Department

Department of Information Technology Faculty of Engineering & Technology

Atmiya University

Rajkot

Mr. Bhavesh Atara

Founder

Cloud Folks Hub

Rajkot CloudFolks HUB

DATE:14/2/2022

SEAL:

Proprietor

Atmiya University, Rajkot-Gujarat-India **Registrar**





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KI 3.7	M 3.7.1

Report on

"Capacity building session on cloud computing and career opportunity with AZURE"

Organized by

Information Technology Department,

ATMIYA UNIVERSITY - RAJKOT.

Date -26 July 2023

Chief Patron – Sadhu Tyagvallabhdas

Convener –Mr. Darshan N Jani, Mr. Hiren M Bhatt, AU-IT, Rajkot

Organizing Committee members-Mr.Piyush D Kashiyani, Ms. Hemangi Joshi, Mr. Mialn N Gohel IT Department

No. of Participants - 64

Atmiya University, Rajkot-Gujarat-India **Registrar**



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Criterion 3	R I & E
KI 3.7	M 3.7.1

Report on

"Capacity building session on cloud computing and career opportunity with AZURE"

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Organizing Committee membersMr.Piyush D Kashiyani, Ms. Hemangi Joshi, Mr. Mialn N Gohel
IT Department
No. of Participants – 64

Atmiya University, Rajkot-Gujarat-India
Registrar
Atmiya University

Rajkot





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Session Moments

Session Moments











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Glimpses of the event:

This event is arranged as a part of "AWS Cloud IT department"

Key Points of Session:-

- → Students should make their career in the city which is best for their field.
- → Students must choose a goal and work on that after college hours.
- → Students must use LinkedIn and improve their Resume everyday.
- → There are a lot of different fields in Information Technology but The CLOUD field is connected to all the fields.
- → So students must consider their career in CLOUD COMPUTING.
- → The future of Cloud is extremely bright because all businesses will work on the cloud.

Glimpses of the Event





NAAC – Cycle – 1	
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Glimpses of the event:

This event is arranged as a part of "AWS Cloud IT department"

Key Points of Session:-

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- → Students must choose a goal and work on that after college hours.
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Glimpses of the Event









NAAC – Cycle – 1	
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SUMMARY REPORT

"Session by Vishesh Thakkar on Career Opportunity in cloud computing"

Organized by

Department Information Technology, FoET

Date - 16/02/2022

Patron-Param Pujya Tyagvallabh Swamiji, Secretary, Sarvoday Kelavani Samaj

Chief Convenor – Dr. G.D. Acharya Professor-Emeritus, Atmiya University

Convener - Prof. Darshan Jani, HOD - IT, FoET

Organizer - Department of Information Technology

No. of Participants – 170

Atmiya University, Rajkot-Gujarat-India
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Rajkot

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With the blessings and vision of Param Pujya Tyagvallabh Swamiji, support and encouragement Principal Dr. G. D. Acharya and Head of Department Asst. Prof. Darshan Jani, we, at Atmiya University, Rajkot, had arranged the session titled "Career opportunity in cloud computing by Vishesh Thakkar".

Talk was delivered by Vishesh Thakkar from aims career solution, for 8^{th} , 6^{th} & 4^{th} semester of the students of I.T & C.E students. He has also guided on career opportunities & how to prepare our self for future, which are the parameters & country based processes were discussed briefly.

Objectives

- 1. Demonstrate awareness the future planning for career in AWS.
- Provide the knowledge to the students about all different cloud services providers.
- Motivate the students for learning different cloud platforms.

GLIMPESES OF THE EXPERT TALK



Atmiya University, Rajkot-Gujarat-India





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MEMORANDUM OF UNDERSTANDING

BETWEEN



Hemchandracharya North Gujarat University, Patan

&



Atmiya University, Rajkot-Gujarat-India Registrar
Atmiya University
Rajkot





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MEMORANDUM OF UNDERSTANDING

BETWEEN

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

AND

ATMIYA UNIVERSITY, RAJKOT

WHERE AS:

Hemchandracharya North Gujarat University ((hereinafter referred as HNGU) is a State University in Gujarat, established by the Ordinance No. 5 of 1986 dated 17.5.1986 which was later passed as the North Gujarat University Act No.22 of 1986 on 11/9/86 by the Legislative Assembly of Gujarat. With a view to catering to the peculiar cultural and educational needs of the North Gujarat area, the University has been functioning since then and growing and expanding steadily.

And

Atmiya University (hereinafter referred as AU), is a State Private University, established by Act 11 2018 of Government of Gujarat and recognized under Section 2f the UGC.

In accordance with a mutual desire to promote and develop collaborative activities, both HNGU and AU agree to the following statement of intent on academic and research cooperation as per the specified scope of activities in this MoU.

The details of specific cooperation interventions may be designed by mutual consent; and the same can be incorporated into specific additional agreements upon signature by the institutions' appropriate authorities.

A. Objectives

- Strengthening capacity building of student and faculty members through mutual expertise;
- Complementing resources and capabilities of each-other through sharing of knowledge resources, physical resources and knowledge capital for the mutually agreed activities;
- Creating collective efforts for creation, dissemination and application of knowledge; and
- Facilitating knowledge exchange between the two institutions for larger societal impact.

B. Scope of Activities

- Conducting faculty training and capacity building initiatives (including refresher courses/ seminars) on identified themes.
- 2. Organizing faculty and student exchange programmes.

 Supporting education and training programmes on languages, literature and lifeskills.

> I/c. Registrar Hemchandracharya North Gujarat University PATAN

Atmiya University, Rajkot-Gujarat-India

Atmiya University Rajkot 1 of 3

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- 4. Jointly designing and undertaking collaborative projects.
- 5. Organizing joint conferences, seminars, workshops.
- 6. Extending physical and knowledge resources to the students and faculty of the partner university.
- 7. Any other activities/initiatives, as agreed mutually.

C. Initially Identified Intervention Areas (to be amended from time to time)

1. Role of AU:

- a. Design and delivery of courses and short-programmes for the students and faculty of HNGU as well as it's affiliating institutions, preferably in the following areas:
 - i. Human-Values
 - ii. Sustainable Development Goals
 - iii. Life Skills
- b. Hosting HNGU faculty and students for academic projects/ assignments
- c. Providing support facilities to visiting scholars and faculty from HNGU.
- d. Organizing (and participating in) joint academic events including conferences, seminars, and workshops.
- e. Sending students and faculty to HNGU for different academic related activities including laboratory/field research, training, etc.
- Participating in joint proposals for grant nationally and internationally.

2. Role of HNGU:

- Design and delivery of faculty development programme for AU
- Hosting AU faculty and students for academic, research & innovative projects/ assignments.
- c. Providing support facilities to visiting scholars and faculty from AU.
- d. Supporting joint organization of academic events including conferences, seminars, and workshops.
- e. Permitting participation of students and faculty to AU for different academic related activities.
- f. Participating in joint grant proposals for grant nationally and internationally and dissemination of the same.

Outcomes of shared knowledge and intellectual deliberations (like research, innovation or other data) may be disseminated and claimed jointly.

D. General

1. Both the organizations agree that all financial arrangements necessary to implement this MOU or any subsequent agreement must be negotiated according to the regulation of each institution and depends on the availability of funds.

2. Both institutions agree to extend sharing of physical, knowledge and intellectual resources to partner institution as per the applicable norms of their respective

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Vc. Registrar Hemchandracharya North Gujarat University PATAN

and

Atmiya University, Rajkot-Gujarat-India

Atmiya University Rajkot

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institutions, preferably on complementary basis without any charges, including use of research laboratory, as and when possible.

- Travel, routine expenses of the visiting students shall be the responsibility of the institutions they belong to unless the same is covered through some third party funding sources.
- This MOU establishes a foundation of mutual understanding and interest and does not itself entail any financial obligations for either institution;
- This MOU will take effect from the date of its signing and shall be valid for the period of THREE (03) years from that date, unless terminated earlier upon six months' notice by either institutions;
- This MOU may be revoked or modified by mutual agreement between the institutions and may be extended beyond its initial three year term by mutual agreement.

This MOU is being signed on 22⁵⁷ December 2021 and will stand effective from the same date.

Registrar

mc. Racharya

Hemchandracharya North Gujarat University

Patan

Gujarat, India

Registrar

Atmiya University

Raikot

Gujarat, India



Atmiya University, Rajkot-Gujarat-India **Registrar**





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Hemchandracharya North Gujarat University

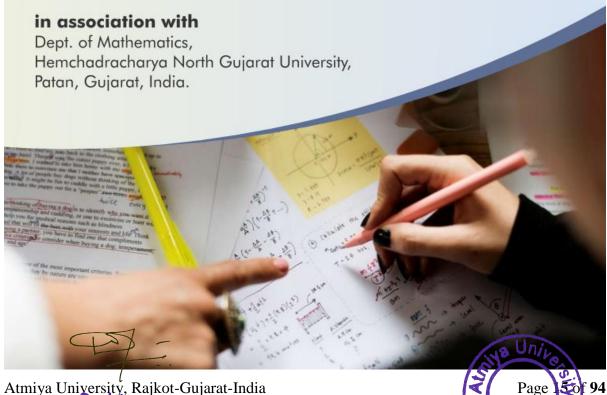
An International Workshop on

Algorithms, Complexity and Some Recent Advances in **Graph Theory-2023**

8th February, 2023

Organized by

Dept. of Mathematics, Dept. of Computer Science & Dept. of Computer Engg. Atmiya University, Rajkot, Gujarat, India.



Atmiya University, Rajkot-Gujarat-India **Registrar**



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Pajko



About Atmiya University

ATMIYA University is a private, non-profit multi-disciplinary university committed to foster knowledge creation and dissemination in various disciplines through value-based education. The campus is spread over 23.5 acres of land located in the heart of Rajkot city. The University has 210+ highly qualified faculty members with rich research and industrial experience backgrounds. 100+ faculty members have undergone training specifically related to innovation, start-up, IPR, etc. The University has 56 computer laboratories with 2000+ systems, 7 IBM servers and a high-speed internet facility with a dual fibre backbone and offers 64 programs through 6 faculties and 23 departments. The University has several state-of-the-art laboratories which include various domain-specific laboratories and facilities like the Center of Excellence for Embedded Systems & Robotics, Center for Renewable Energy Resources, Central Instrumentation Facility, iMAC Laboratory, Rapid Prototyping Laboratory, Tinkering Laboratory, Testing & Consultancy Centre for Material Testing & Environment, etc.

ATMIYA University emphasizes training young minds with consonance of higher education and human values and, aims to spread eternal happiness and create a happy society in the true sense. The motto of the University is सुदृदंसर्वभूतानाम् (suhradam sarva-bhutanam) which means well-wisher of all living beings. Brahmswaroop Hariprasad Swamiji Maharaj and HDH Premswaroop Swamiji Maharaj, the spiritual successors of Lord Swaminarayan are the mentors of ATMIYA University. With their blessings, P.P. Tyagvallabh Swamiji has envisioned state-of-the-art educational facilities and transformed them into reality!

ATMIYA University is keen on promoting innovation and entrepreneurship activities at the campus. As a part of these, several courses and components have been introduced in the curriculum framework which is implemented as per the aspirations of National Education Policy - 2020. Curriculum includes skill enhancement courses as a compulsory component. Further, emphasis is laid on components promoting creativity, innovation, community engagement, skill development, etc. along with domain knowledge as well as inter and transdisciplinary education. The University has signed MoUs with International Academic Institutions including University of Miyazaki (Japan), Keck Graduate Institute (California, USA), Lincoln University College (Malaysia) along with different national academic institutions, severnment and private organizations.

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About Hemchadracharya North Gujarat University (HNGU)

Acharya Hemachandra was an Indian Jain saint and scholar during 1088 AD to 1177 AD who contributed remarkably to Jain literature and grammar of Sanskrit language.

Hemchandracharya North Gujarat University was established on 17-05-1986. The lush green campus of university is spread over an area of 212.5 acres. There are 19 postgraduate and 3 Undergraduate departments on the campus. More than 1, 50, 000 students are studying in 405 affiliated collages. The university was accredited with 'A' Grade (CGPA 3.02) by NAAC in the last cycle.

Objectives of the Workshop

- To learn the basics of Algorithms and determine its NP- Completeness by study of Complexity.
- To learn about Line Graphs and Line Digraphs and study of some properties and characteristics of line graphs.
- To introduce new algorithms to recognize line graphs.
- To provide a platform for the researchers and the mathematicians to discuss the relation between mathematics and computer science.

Registration Details

Registration fees:

- For PG Students: Rs. 200/For Research Scholar: Rs. 300/-
- For Faculty/Academician: Rs. 350/- For International Participants: \$ 10

For payment & registration, visit:

http://seminar.atmiya.edu.in

Last date of Registration 31st January, 2023

Atmiya University, Rajkot-Gujarat-India **Registrar**





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Resource Persons



DR. JAY S. BAGGA
Professor of Computer Science,
Ball State University, Muncie, Indiana, USA.



KI 3.7

DR. LOWELL W. BEINEKE Professor of Mathematics, Purdue University Fort Wayne, Fort Wayne, Indiana, USA.

Chief Patron



P.P. TYAGVALLABH SWAMIJI
President,
Atmiya University, Rajkot, India.

Patrons

DR. SHEELA RAMCHANDRAN Hon. Pro Chancellor, Atmiya University, Rajkot, Gujarat, India.

DR. SHIV TRIPATHI Hon. Vice Chancellor, Atmiya University, Rajkot, Gujarat, India.

DR. JAYESH DESHKAR Hon. Pro Vice Chancellor, Atmiya University, Rajkot, Gujarat, India.

Co-Patron

DR. ROHITKUMAR N. DESAI Hon. Vice Chancellor, HNGU, Patan, India

Academic Secretary

DR. S. K. VAIDYA

Professor and Head,

Department of Mathematics, Saurashtra University, Rajkot, Gujarat, India.

Convener

DR. D. D. VYAS

Registrar,

Atmiya University, Rajkot, Gujarat, India.

Co-Convener

DR. CHIRAG PATEL

Registrar,

HNGU, Patan, Gujarat, India.

Atmiya University, Rajkot-Gujarat-India Registrar
Atmiya University
Rajkot





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Azadi Ka Amrit Mahotsav Hemchandracharya North Gujarat University

Patan, Gujarat(INDIA)

Department of Mathematics

in association with

ATMIYA University

Rajkot, Gujarat(INDIA)



Time: 10:00am

Cordially invite for the inaugural function of

NATIONAL CONFERENCE ON **Emerging Trends in Discrete Mathematics** (NCETDM - 2022)

Date: 17th February 2022 (Thursday)

PROGRAM SCHEDULE

Welcome Address:

About the Conference:

Dr. Atulkumar V. Kadia

(Convener, NCETDM - 2022)

Head, Department of Mathematics,

Hemchandracharya North Gujarat University, Patan

Dr. Chirag M. Barasara

Organizing Secretary, NCETDM - 2022

Presidential Address: Prof. J. J. Vora

Honourable Vice Chancellor,

Hemchandracharya North Gujarat University, Patan

Address by Guest of Honour: Dr. Shiv K. Tripathi

> Honourable Vice Chancellor, ATMIYA University, Rajkot

Address by Special Invitee: Dr. Sheela Ramachandran

> Honourable Pro Chancellor, ATMIYA University, Rajkot

Address by Academic Secretary:

Dr. Samir K. Vaidya

Professor and Head.

Department of Mathematics, Saurashtra University, Rajkot

Vote of Thanks: Dr. D. D. Vyas

Registrar(I/C),

ATMIYA University, Rajkot

Dr. D. M. Patel I/c Registrar, HNGU, Patan

Dr. D. D. Vyas I/c Registrar, ATMIYA University, Rajkot Dr. A. V. Kadia Convener, NCETDM - 2022

Dr. C. M. Barasara Organizing Secretary, NCETDM - 2022

Atmiya University, Rajkot-Gujarat-India **Registrar**





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Hemchandracharya North Gujarat University

PATAN - 384 265 (N.G.)

Accredited by NAAC with "A" Grade (CGPA 3.02)

No: Maths/2021-22/187

Date: 27th January, 2022

KI 3.7

To, The Registrar, Atmiya University, Rajkot.

Subject: Invitation for association in national conference.

Dear Sir,

Greetings from Hemchandracharya North Gujarat University, Patan!

It gives me immense pleasure to inform that the Department of Mathematics, Hemchandracharya North Gujarat University, Patan have planned to organize a National Conference on Emerging Trends in Discrete Mathematics (NCETDM – 2022) during 17-19 February, 2022 in virtual mode.

The main purpose of this National conference is

- To develop the research attitude among the youngsters in the field of discrete mathematics.
- To highlight the major theoretical advances in the field and the new applications of discrete mathematics to the problems arising in real life.
- To provide a platform for the researchers and the and the budding researchers to meet the stalwarts in the field of discrete mathematics.

During the conference there would be a Keynote address, 11 invited talks and 9 contributory paper presentation sessions. The more details about the conference can be found on the conference website: https://sites.google.com/view/ncetdm-2022.

As a part of the MoU signed between Atmiya University and Hemchandracharya North Gujarat University, we propose to be the associative partner for the above referred national conference.

If you accept our proposal then we will include name and logo of Atmiya University in brochure, conference website, certificate and abstract book. The Honorable VC of Atmiya University would be the co-patron while Registrar, Atmiya University would be a member of Advisory Committee. Also the Head, Department of Mathematics (Atmiya University) would act as a member of organizing committee. Moreover, the PG students of Department of Mathematics, Atmiya university would be allowed to register in the conference at discounted PG students rate (Rs. 200/-).

P.B. No. 21, University Road, Patan. 384265, Gujarat State. INDIA Phone: +91 2766 - 237000,220932,230529 Fax: +91 2766 - 231917 Mail: regi@ngu.ac.in Web: www.ngu.ac.in

Atmiya University, Rajkot-Gujarat-India **Registrar**





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Hemchandracharya North Gujarat University

PATAN - 384 265 (N.G.)

Accredited by NAAC with "A" Grade (CGPA 3.02)

Responsibility and Role of Atmiya University

- 17 chairpersons are appointed to handle all the technical sessions of the conference. We are going to pay Rs.1000/- to each chairperson. Thus the total sum is Rs. 17,000/-. It would be share equally among Atmiya University and Hemchandracharya North Gujarat University. (i.e. a financial obligation of Rs. 8500/- to both of us.)
- Atmiya University will give technical assistance in conduction of conference. This includes WebEx platform link setup, hosing and monitoring of the sessions (few of them
- Recording of the whole conference on a DVD/Pendrive.

Please feel free to contact me for any query. Looking forward for a favorable response.

With best regards,

(Qual 12/2)

Dr. Chirag Barasara,

(Organizing Secretary, NCETDM - 2022)

Assistant Professor,

Department of Mathematics,

Hemchandracharya North Gujarat University,

Patan - 384265.

M: 9998041029

- 1. Dr. D. M. Patel, Registrar, HNGU, Patan
- 2. Dr. A. V. Kadia, Convener, NCETDM-2022.
- 3. Dr. Ashwin Modi, Coordinator, UGC Section and MOU cell, HNGU, Patan

P.B. No. 21, University Road, Patan. 384265, Gujarat State, INDIA Phone: +91 2766 - 237000,220932,230529 Fax: +91 2766 - 231917

Mail: regi@ngu.ac.in Web: www.ngu.ac.in

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NATIONAL CONFERENCE ON Emerging Trends in Discrete Mathematics

February 17-19, 2022 (Virtual Mode)



IMPORTANT DATES

Full Paper Submission by: January 10, 2022 Notification to Presenter: January 25, 2022

Registration and Fee

Payments By: January 31, 2022

OBJECTIVES

The main purpose of this National conference is

- To develop the research attitude among the youngsters in the field of discrete mathematics.
- To highlight the major theoretical advances in the field and the new applications of discrete mathematics to problems arising in industry and business.
- To provide a platform for the researchers and the young mathematicians to meet and discuss with stalwarts in the field of discrete mathematics.

Organized by

Department of Mathematics, Hemchandracharya North Gujarat University, Patan – 384265, Gujarat, India.

in association with

ATMIYA University,
"Yogidham Gurukul", Kalawad Road,
Rajkot – 360005, Gujarat, India

https://sites.google.com/view/ncetdm-2022



Atmiya University, Rajkot-Gujarat-India Registrar
Atmiya University
Rajkot





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ABOUT THE UNIVERSITY

Acharya Hemachandra was an Indian Jain saint and scholar during 1088 AD to 1177 AD who contributed remarkably to Jain literature and grammar of Sanskrit language.

Hemchandracharya North Gujarat University was established on 17-05-1986. The lush green campus of university is spread over an area of 212.5 acres. There are 19 postgraduate and 3 Undergraduate departments on the campus. More than 1, 50, 000 students are studying in 405 affiliated collages. The university was accredited with 'A' Grade (CGPA3.02) by NAAC in the last cycle.

ABOUT THE DEPARTMENT



The Department of Mathematics is the pioneering department of the University since 1993. Department offers Postgraduate Program in Mathematics and Ph.D. program in the area of Graph Theory. We focus on the quality education, innovative research and carry out all academic activities in order to realize the Vision and Mission of the University. Alumni of this department are serving at very reputed educational and research institutes. Faculty members of this department are actively taking interest in shaping the career as well as future of the students.

ABOUT THE CONFERENCE

The subject of Mathematics plays a vital role for the all round growth of human kind and all the branches of Mathematics have rigorous applications for solutions of the problems arising in real life. Discrete Mathematics is one of such branches which has paved the path for the growth and development of computer science and it is considered as mathematical language of computer science.

The various domains of discrete mathematics are graph theory, coding theory, block design, matrices and cryptography. Our nation has contributed significantly in the field of graph theory and in Gujarat also, many researchers are working in this emerging field. Considering this fact the National Conference on Emerging Trends in Discrete Mathematics (NCETDM-2022) is organized with the aim to provide the platform to budding researchers.

KEYNOTE SPEAKER

Prof. Ambat Vijayakumar, Emeritus Professor, Cochin University of Science and Technology, Kochi, Kerala, India

INVITED SPEAKERS

- Prof. T. Tamizh Chelvam, MS University, Tamil Nadu
- Prof. Samir K. Vaidya, Saurashtra University, Gujarat
- Prof. Nita H. Shah, Gujarat University, Gujarat
- Prof. R. Kala, MS University, Tamil Nadu
- Prof. H. S. Ramane, Karnatak University, Karnataka
- Fr. Joseph Varghese, Christ University, Karnataka
- Prof. B. Basavanagoud, Karnatak University, Karnataka
- Dr. B. Gayathri, Periyar E.V.R. College, Tamil Nadu
- Dr. Aparna Lakshmanan, CUSAT, Kerla
- Dr. Arti Pandey, IIT Ropar, Punjab
- Dr. Pranjali, University of Rajasthan, Rajasthar

Atmiya University, Rajkot-Gujarat-India
Registrar
Atmiya University
Rajkot





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Hemchandracharya North Gujarat University

Patan, Gujarat(INDIA)

Department of Mathematics

in association with

ATMIYA University

Rajkot, Gujarat(INDIA)

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NATIONAL CONFERENCE ON Emerging Trends in Discrete Mathematics (NCETDM - 2022)

Date: 19th February 2022 (Saturday)

Time: 04:00pm

PROGRAM SCHEDULE

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Compound Submission Application

Packing list ID: 12563

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D10

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D4

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227516 SE2-

227513 SE2-

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RK- SE2- D14	227517	RK- SE2- D14	15 mg		RECEIV	Wed Oct 11 08:32:1 EDT 2023	
RK- SE2- D15	227518	RK- SE2- D15	15 mg		RECEIV	Wed Oct 11 08:32:1 EDT 2023	
RK- SE2- D16	227519	RK- SE2- D16	15 mg		RECEIV	Wed Oct 11 08:32:1 EDT 2023	

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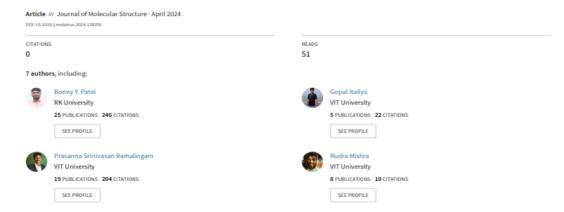


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Synthesis of 8-methyl-2-phenylquinazolin-4(3H)-ones derived Schiff's bases: Spectroscopic properties, SAR, docking approaches and their anticancer and antimicrobial activity



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ABSTRACT

A series of new compounds based on 8-methyl-2-phenyl quinazolinone Schiff's base were synthesized from 3amino quinazolinone intermediates. These compounds were evaluated for their potential as anticancer and antimicrobial agents through docking analysis. Anticancer evaluation was done against sixty different cancer cell lines. Compounds 7b and 7 h showed strong efficacy against Melanoma (MDA-MB-435 Cell lines) and Non-Small Cell Lung Cancer (NCI-H522), respectively. Compound 7 g was found to be predominantly effective against both breast cancer (HS-578T) and central nervous system cancer (SNB-19). The antimicrobial activity results showed that the newly synthesized compounds 7d and 7j, which contain halogen, exhibited potential inhibiting action against selected bacterial and fungal microorganisms. The SAR study revealed that compounds with EDGs like hydroxyl and meta-substituted chloro group were found to be more potent in anticancer studies; while compounds with EWGs substituted in the para position (7d and 7j) demonstrated higher antimicrobial activity. Moreover, Antimicrobial docking analysis indicated that compounds 7d and 7j have a high affinity towards molecular targets found in both bacteria and fungi, with negative binding energies ranging from -8 to -12.5 kcal/ mol. We endorse further evaluation of these compounds in combination with standard antibiotics to potentially increase their synergistic effect.

1. Introduction

The investigation of heterocyclic compounds, as well as various aliphatic compounds like sulfonamide, is crucial for the development of novel drugs that are needed by the agrochemical and pharmaceutical industries. These substances play a vital role in advancing science and medicine, as well as creating medicinal drugs. [1-4]. Quinazolinones and their derivatives was reported for their versatile pharmacological activities especially in antimicrobial properties [5,6]. The fused ring types of quinazolinones heterocycles are considered the most significant group due to their extensive range of therapeutic applications [7-12]. Microbial infections are responsible for more deaths annually worldwide. Chloramphenicol, Ciprofloxacin and Norfloxacin are well-known antibiotics against a series of bacteria, and Nystatin and Griseofulvin are potent antifungal agents that were reported in various studies [13].

Also, these compounds were FDA-approved for the treatment of patients with microbial infections [14]. Although these compounds have significant therapeutic potential against the microbial infections caused by E. coli, P. aeruginosa, S. aureus, S. pyogenes, C. albicans, A. niger and A. clavatus, they are becoming resistant among patients and there is an urgent for the development for potent compounds [15-17]. A variety of FDA-approved medications, including anticancer and antimicrobial drugs, belong to various structural classes of quinazolinone. These drugs, such as Thymitaq as well as Idelalisib for cancer and Albaconazole for fungal infections, have been extensively researched and reviewed. In our ongoing search for more effective anticancer and antimicrobial drugs, we have developed and synthesized a new series of quinazolines based on the aforementioned rational (Fig. 1) [18].

Acylation of anthranilic acid with acyl chloride is a common method to produce 4(3H)-quinazolinone. After ring closure with acetic

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anhydride, the corresponding 1,3-benzoxazin-4-one (benzoxazinone) is derived, which can be treated with various amines to obtain 4(3H)-quinazolinone derivatives [19,20]. It's common to have issues with the ring opening of quinazoline during the synthesis of quinazoline from benzoxazinone. To avoid this problem, a modified synthesis technique has been developed for 3-amino-7-chloro-2-phenyl quinazolin-4 (3H)-one. Instead of using a solvent, it involves a fusion reaction carried out at 250 °C [21]. We synthesized a new family of Schiff bases that contain 2,3,6-trisubstituted quinazolinone derivatives beginning with 3-methyl-2-aminobenzoic acid. These results align with prior research and our commitment to enhancing our methods and exploring new approaches to drug development [22–32].

2. Experimental

2.1. Chemistry

In the presence of pyridine, we used benzoyl chloride (2) to carry out the N-acylation of 2-amino-3-methylbenzoic acid (1). This reaction resulted in the formation of 8-methyl-2-phenyl-4H-benzo[d][1,3]-oxazin-4-one (3) through dehydrative cyclization. Next, we attempted to mix it with hydrazine hydrate in ethanol to obtain 3-amino-8-methyl-2phenylquinazolin-4(3H)-one (4), but instead, we ended up with a mixture of N-(2-(hydrazinecarbonyl)-6-methylphenyl)benzamide (5) due to ring-opening. We conducted an experiment where we repeated the reaction at a temperature of 150 °C without using any solvent. The desired product, which is 3-amino-8-methyl-2-phenylquinazolin-4(3H)one (4), was successfully produced this time without any ring-opened structure (diamides). The fusion process proved to be much more convenient and time-saving as it only takes 1 h, which is significantly shorter than traditional reactions that can take up to 3 h. In the synthesis of quinazoline from benzoxazinone, ring opening is a common occurrence. However, this can be avoided by fusing benzoxazinone at high temperatures. This results in the necessary quinazoline being synthesized without any ring-opened quinazoline (diamides) being formed, as shown in Scheme 1. To produce the corresponding arylidene derivatives of quinazoline, we successfully condensed compound 4 with various substituted aromatic aldehydes in glacial acetic acid (7a-j).

2.2. Materials and methods

The chemicals used were of AnalaR grade of Sigma-Aldrich and used without further purification. The 1H NMR (400 MHz) and 13C NMR (125 MHz) spectra were recorded on a Bruker ultra-shield-400 spectrometer using CDCl3 and DMSO-d6 as solvents, and tetramethylsilane (TMS) was used as the internal standard for chemical shifts. Coupling constants (J) were indicated in hertz (Hz), and abbreviations such as s (singlet), d (doublet), t (triplet), and m (multiplet) were used. The Infrared spectra (ν, cm⁻¹) were recorded on a Shimadzu FTIR 8400S spectrophotometer using KBr pellets. Mass spectra were obtained on a Shimadzu GC-2010+ ultra-spectrometer. Elemental analyses were performed on an ECS 4010 Elemental Combustion System (Costech Instruments, Pioltello) and the resulting data were within the accepted range (± 0.40) of the calculated values. The melting point was checked on an electro-thermal melting point apparatus (model 9100, Electrothermal Engineering Ltd.), and the results were reported uncorrected. To check the completion of the reaction, a 20 × 20 cm aluminum-coated sheet of TLC plates 60 F245 (E. Merck) was used. Two mobile phases were used: toluene: ethyl acetate (5:5 V/V) and ethyl acetate: n-hexane (2:8 V/V). The visualization of the plates was done under ultraviolet (UV) light.

2.2.1. Preparation of 8-methyl-2-phenyl-4H-benzo[d][1,3] oxazin-4-one (3)

Initially, 2-amino-3-methylbenzoic acid (1) (0.1 mol) was dissolved in 10 ml of pyridine by stirring. Con. benzoyl chloride (0.2 mol) was gradually added to the solution while stirring continuously at 0 °C to 5 °C. Keep the mixture at the same temperature for 1-2 h. The completion of the synthesis was monitored by TLC using ethyl acetate: toluene (5:5) solvent system. After the reaction is complete, stir it for an additional 1 h at room temperature. While stirring, add 30 ml of process water that has been pre-cooled with ice. The product was separated, filtered, washed with cooled water, and the solid was purified with methanol slurry. The solid was then vacuum dried at 30 °C to 35 °C to obtain the desired compound. LCMS: m/z 237 [M^+].

2.2.2. Preparation of 3-amino-8-methyl-2-phenylquinazolin-4(3H)-one (4)
Method-1 (Room temperature method): A mixture of 8-methyl-2-

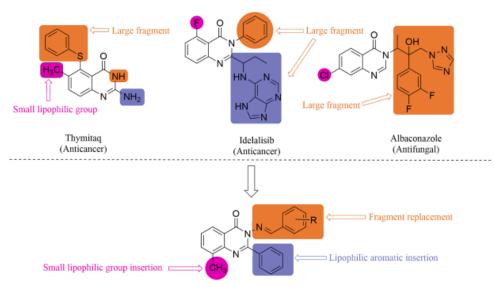


Fig. 1. Reported and proposed anticancer and antimicrobial quinazoline derivatives.

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Scheme. 1. Synthetic route for the preparation of compounds 7a-j.

phenyl-4H-benzo[d][1,3]oxazin-4-one (3) (0.1 mol), ethanol (10 ml) and hydrazine hydrate (1 ml, 99 %) were taken in RBF. Stir the mixture at room temperature for 1 h, while the completion of reaction was monitored by TLC using ethyl acetate: toluene (5:5) solvent system. The reaction mass was poured into a mixture of methanol (2–3 ml) and icecold process water (10 ml). The separated products were filtered out, washed with methanol and water solution (2:8), vacuum dry the solid at 30 °C to 35 °C to afford the desired compounds. LCMS: m/z 238 [M^+]; LCMS: m/z 251 [M^+].

Method-2 (Optimized high temperature fusion method): A mixture of 8-methyl-2-phenyl-4H-benzo[d][1,3]oxazin-4-one (3) (0.1 mol) and hydrazine hydrate (0.5 mol, 99 %) were taken in RBF. Stir the mixture at 150 °C for 1 h, and the completion of reaction was monitored by TLC using ethyl acetate: toluene (5:5) solvent system. After stirring the mixture, let it cool down before adding a combination of 2–3 ml of methanol and 10 ml of ice-cold distilled water. Then, filter the reaction material and rinse it with a mixture of 8 parts water and 2 parts methanol. The solid was then vacuum dried at 30 °C to 35 °C to obtain the targeted compound (4). 1 H NMR (CDCl₃, 400 MHz): 8 8.19–8.17 (d, 1 9.4 Hz, 1H₁), 7.91–7.88 (m, 1 9.2 O. Hz, 2H₁), 7.66–7.64 (d, 1 9.1 Hz, 1H₁), 7.55–7.51 (m, 1 9.1 L6 Hz, 3H₁), 7.44–7.40 (t, 1 9.8 O Hz, 1H₁), 5.05 (s, 2H₁NH₁), 2.66 (s, 3H₁CH₃); LCMS: m/z2.51 (1 1 Anal. Calcd. for: 1 15H₁₃N₃O: C,71.70; H, 5.12; N, 16.72; Found: C, 71.68; H, 5.10; N, 16.65 %.

2.2.3. General procedure for 3-(aryl-benzylidene-amino)—8-methyl-2phenylquinazolin-4(3H)-one (7a-j)

At first, 3-amino-8-methyl-2-phenylquinazolin-4(3H)-one (4) (0.1 mol) was dissolved in 2–3 ml of glacial acetic acid by stirring. Slowly add a mixture of glacial acetic acid (2 ml) and benzaldehyde derivatives (0.2 mol) into the solution at a temperature of 25 °C-35 °C until it becomes transparent. The mixture was refluxed at 150 °C for 1 h, and the completion of reaction was monitored by TLC using ethyl acetate: n-hexane (2:8) solvent system. After cooling, the reaction mixture was poured into a mixture of methanol (1–2 ml) and ice-cold process water (10 ml). The separated products were filtered out, washed with methanol and water solution (1:9), vacuum dry the solid at 30 °C to 35 °C to afford the desired compounds.

2.2.3.1. 3-(benzylideneamino) – 8-methyl-2-phenylquinazolin-4(3H)-one (7a). Yield: 80 %; m.p.: 156–158 °C; IR (KBr, cm $^{-1}$): 3055 (Aromatic C—H), 2916 (C—H), 1681 (C = O), 1566 (C = N), 1450 (C = C), 1327 (C—N); ¹H NMR (DMSO- d_6 , 400 MHz): δ 9.05 (s, 1H, N=CH), 8.09–8.07 (d, J = 7.2 Hz, 1H), 7.77–7.73 (m, J = 8.0 Hz,5H), 7.61–7.58 (m, J = 5.2 Hz, 1H), 7.53–7.48 (m, J = 4.4 Hz, 6H), 2.60–2.51 (s, 3H, CH₃); 13 C NMR (CDCl₃, 125 MHz): δ 165.6, 159.1, 151.8, 144.7, 136.0, 134.7, 134.4, 132.4, 131.7, 129.8, 129.3, 128.3, 127.2, 126.1, 124.4, 121.0, 16.8; LCMS: m/z 339 [M $^{\circ}$]; Anal. Calcd. for: C₂₂H₁₇N₃O: C, 77.86; H, 5.05; N, 12.38; Found: C, 77.79; H, 5.03; N, 12.12 %.

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2.2.3.3. 3-((3-hydroxybenzylidene)amino) -8-methyl-2-phenylquinazolin-4(3H)-one (7c). Yield: 94 %; m.p.: 208-210 °C; IR (KBr, cm $^{-1}$): 3302 (OH), 3063 (Aromatic C—H), 2962 (C—H), 1658 (C = O), 1573 (C = N), 1458 (C = C), 1381 (C—N); 1 H NMR (DMSO- d_6 , 400 MHz): δ 9.80 (OH), 8.93 (s, 1H, N=CH), 8.08–8.06 (d, J = 7.6 Hz, 1H), 7.76–7.71 (m, J = 7.6 Hz, 3H), 7.51–7.45 (m, J = 8.0 Hz, 4H), 7.33–7.29 (t, J = 7.6 Hz, 1H), 7.16–7.14 (d, J = 9.2 Hz, 2H), 6.98–6.96 (d, J = 8.0 Hz, 1H), 2.50 (s, 3H, CH₃); 13 C NMR (DMSO- d_6 , 125 MHz): δ 169.6, 157.9, 157.7, 151.8, 144.7, 135.7, 134.8, 133.5, 130.1, 129.8, 129.7, 127.6, 124.4, 120.9, 120.3, 119.8, 113.8, 17.0; LCMS: m/z 335 [M^{+}]; Anal. Calcd. for: $C_{22}H_1/N_3O_2$: C, 74.35; H, 4.82; N, 11.82; Found: C,74.32; H, 4.80; N, 11.75 %

2.2.3.4. 3-((4-bromobenzylidene)amino)-8-methyl-2-phenylquinazolin-4 (3H)-one (7d). Yield: 81 %; m.p.: 236–238 °C; IR (KBr, cm $^{-1}$): 3047 (Aromatic C—H), 2924 (C—H); 1681 (C = O), 1566 (C = N), 1450 (C = C), 1381 (C—N); 1 H NMR (CDCl₃, 400 MHz): δ 9.14 (s, 1H, N=CH), 8.22–8.21 (d, J = 7.6 Hz, 1H), 7.79–7.77 (d, J = 1.2 Hz, 2H), 7.67–7.66 (d, J = 7.2 Hz, 1H), 7.57 (s, 4H), 7.49–7.42 (m, J = 6.8 Hz, 4H), 2.70 (s, 3H, CH₃); 13 C NMR (CDCl₃, 125 MHz): δ 163.6, 163.6, 159.1, 151.8, 144.6, 136.1, 134.6, 134.62, 131.6, 131.4, 129.7, 129.5, 129.4, 127.2, 126.3, 126.2, 124.4, 120.9, 16.8; LCMS: m/z 417 [M †]; Anal. Calcd. for: C_{22} H₁₆BrN₃O: C, 63.17; H, 3.86; N, 10.5; Found: C, 62.09; H, 3.56; N, 10.11 ° δ

2.2.3.5. 3-((2-bromobenzylidene)amino)-8-methyl-2-phenylquinazolin-4 (3H)-one (7e). Yield: 92 %; m.p.: 218–220 °C; IR (KBr, cm $^{-1}$): 3063 (Aromatic C—H), 2916 (C—H), 1689 (C = O), 1581 (C = N), 1450 (C = C), 132 (C—N); 1 H NMR (CDCl $_{3}$, 400 MHz): δ 9.60 (s, 1H, N=CH), 8.27–8.25 (d, J = 7.6 Hz, 1H), 7.85–7.78 (m, J = 2.0 Hz, 3H), 7.67–7.64 (t, J = 6.8 Hz, 2H), 7.49–7.42 (m, J = 3.6 Hz, 4H), 7.36–7.28 (m, J = 2.0 Hz, 2H), 2.70 (s, 3H, CH $_{3}$); 13 C NMR (CDCl $_{3}$, 125 MHz): δ 164.2, 159.0, 151.8, 144.6, 136.0, 134.7, 134.6, 132.8, 132.5, 131.8, 129.7, 129.3, 127.9, 127.3, 127.2, 126.2, 125.6, 124.6, 121.0, 16.8; LCMS: m/z 417 (M $^{+}$); Anal. Calcd. for: C22H₁₆BrN₃O: C, 63.17; H, 3.86; N, 10.5; Found: C, 63.10; H, 3.76; N, 10.20 %.

2.2.3.6. 3-((2-methoxybenzylidene) amino) – 8 methyl-2-phenylquinaz olin-4(3H)-one (7f). Yield: 89 %; m.p.: 246–248 °C; IR (KBr, cm $^{-1}$): 3063 (Aromatic C—H), 2924 (C—H), 2839 (OCH₃), 1674 (C = O), 1573 (C = N), 1450 (C = C), 1327 (C—N); 1 H NMR (CDCl₃, 400 MHz): δ 9.38 (s, 1H, N=CH), 8.26–8.24 (d, J = 8.0 Hz, 1H), 7.88–7.82 (m, J = 1.2 Hz, 3H), 7.66–7.64 (d, J = 7.2 Hz, 1H), 7.49–7.40 (m, J = 1.6 Hz, 5H), 6.99–6.94 (t, J = 8.0 Hz, 2H), 3.88 (s, 3H, OCH₃), 2.71 (s, 3H, CH₃); 13 C NMR (CDCl₃, 125 MHz): δ 162.8, 159.0, 158.9, 151.8, 144.8, 135.9, 134.7, 134.3, 133.2, 129.8, 129.2, 127.2, 126.8, 125.9, 124.5, 121.1, 120.8, 120.3, 110.7, 55.1, 16.8; LCMS: m/z 369 [M $^{+}$]; Anal. Calcd. for: C₂₃H₁₉N₃O₂: C, 74.78; H, 5.18; N, 11.37; Found: C, 74.69; H, 5.06; N, 11.09 %.

2.2.3.7. 3-((3-chlorobenzylidene) amino)-8-methyl-2-phenylquinazolin-4 (3H)-one (7 g). Yield: 83 %; m.p.: 182-184 °C; IR (KBr, cm $^{-1}$): 3055 (Aromatic C—H), 2916 (C—H), 1681 (C = O), 1566 (C = N), 1450 (C =

C), 1327 (C—N), 763 (C—Cl); $^1\mathrm{H}$ NMR (CDCl₃, 400 MHz): δ 9.19 (s, 1H, N=CH), 8.23–8.21 (d, J=8.0 Hz, 1H), 7.81–7.78 (d, J=1.2 Hz, 2H), 7.70–7.66 (t, J=10.8 Hz, 2H), 7.58–7.57 (d, J=7.6 Hz, 1H), 7.50–7.42 (m, J=6.0 Hz, 5H), 7.39–7.35 (t, J=8.0 Hz, 1H), 2.70 (s, 3H, CH₃); $^{13}\mathrm{C}$ NMR (CDCl₃, 125 MHz): δ 163.1, 159.3, 151.8, 144.5, 136.1, 134.5, 134.3, 131.4, 129.7, 129.5, 129.4, 127.7, 127.2, 126.5, 126.2, 124.5, 120.9, 16.8; LCMS: m/z 373 [M $^+$]; Anal. Calcd. for: C₂₂H₁₆N₃ClO: C, 70.68; H, 4.31; N, 11.24; Found: C, 70.52; H, 4.30; N, 11.16 %

2.2.3.8. 3-((3,4-dihydroxybenzylidene) amino) –8-methyl-2-phenylquinaz olin-4(3H)-one (7 h). Yield: 94 %; m.p.: 256–258 °C; IR (KBr, cm $^{-1}$): 3225 (OH), 2746 (C $^{-}$ H), 1651(C $^{-}$ C), 1597 (C $^{-}$ N), 1458 (C $^{-}$ C), 1334 (C $^{-}$ N); 1 H NMR (DMSO- 1 d₆, 400 MHz): δ 9.83–9.42 (s, 2H, OH), 8.70 (s, 1H, N $^{-}$ CH), 8.06–8.04 (d, J = 8.0 Hz, 1H), 7.74–7.70 (m, J = 7.6 Hz, 3H), 7.49–7.44 (m, J = 8.0 Hz, 4H), 7.17–7.16 (d, J = 1.2 Hz, 1H), 7.06–7.03 (d, J = 1.2 Hz, 1H), 6.84–6.82 (d, J = 8.0 Hz, 1H), 2.58–2.50 (s, 3H, CH₃); 13 C NMR (DMSO- 1 d₆, 125 MHz): δ 169.8, 158.0, 151.9, 150.3, 145.7, 144.2, 135.6, 134.9, 134.6, 129.8, 129.6, 127.6, 126.5, 124.3, 123.5, 123.1, 121.0, 115.5, 113.6, 17.0; LCMS: m/z 371 [M^{+}]; Anal. Calcd. for: C_{22} H₁₇N₃O₃: C, 71.15; H, 4.16; N, 11.31; Found: C, 71.10; H, 4.09; N, 11.28 %.

2.2.3.9. 3-((2-chlorobenzylidene) amino) –8-methyl-2-phenylquinazolin-4 (3H)-one (7i). Yield: 85 %; m.p.: 228-230 °C; IR (KBr, cm $^{-1}$): 3047 (Aromatic C—H), 2924 (C—H), 1681 (C = O), 1566 (C = N), 1450 (C = C), 1381 (C—N), 763 (C—Cl); 1 H NMR (DMSO- 4 6, 400 MHz): 8 9.09 (s, 1H, N=CH), 8.08–8.06 (d, J = 7.6 Hz, 1H), 7.76–7.72 (m, J = 8.4 Hz, 5H), 7.59–7.57 (d, J = 7.6 Hz, 2H), 7.49–7.47 (m, J = 7.2 Hz, 4H), 2.59–2.50 (s, 3H, CH₃); 13 C NMR (DMSO- 4 6, 125 MHz): 8 167.8, 157.9, 151.8, 144.6, 137.2, 135.8, 134.9, 134.8, 131.2, 130.1, 129.8, 129.3, 127.6, 126.7, 124.5, 120.9, 17.0; LCMS: m/z373 [M^{+} 1]; Anal. Calcd. for: C_{22} H₁₆N₃ClO: C, 70.68; H, 4.31; N, 11.24; Found: C, 70.53; H, 4.20; N, 11.15 %.

2.2.3.10. 3-((3-chlorobenzylidene) amino) –8-methyl-2-phenylquinazolin-4(3H)-one (7j). Yield: 80 %; m.p.: 236–238 °C; IR (KBr, v_{max}, cm $^{-1}$): 3055 (Aromatic C—H), 2924 (C—H), 1689 (C = O), 1581 (C = N), 1450 (C = C), 1327 (C—N), 756 (C—Cl); 1 H NMR (DMSO-d₆, 400 MHz): δ 9.50 (s, 1H, N=CH), 8.09 (s, 1H), 7.75 (s, 4H), 7.62 (s, 2H), 7.50–7.42 (s, 5H), 2.60–2.51 (s, 3H, CH₃); 13 C NMR (DMSO-d₆, 125 MHz): δ 164-2, 158.0, 152.0, 144.5, 135.7, 135.0, 133.8, 130.2, 130.0, 129.8, 129.7, 127.8, 127.6, 127.5, 126.7, 124.6, 121.0, 17.0; LCMS: m/z 373 $[M^{+}]$; Anal. Calcd. for: $C_{22}H_{16}N_{3}$ ClO: C, 70.68; H, 4.31; N,11.24; Found: C,70.45; H, 4.28; N, 11.16 %.

2.3. Anticancer screening assay

The Anticancer screening process was assessed by the Developmental Therapeutics Program (DTP) at the National Cancer Institute located in Bethesda, USA. In the initial stage of screening, all compounds (7a-j) were tested against 60 cell lines at a single dose of 10^{-5} M. The 60 human cancer cell lines were categorized into nine subpanels, each representing a different human cancer type, including Leukemia, Non-Small Cell Lung Cancer, Colon, CNS, Melanoma, Ovarian, Renal, Prostate, and Breast Cancer cell lines. The COMPARE application was used to analyze the mean graph obtained from the initial stage screening, following the protocol described in the literature [33].

2.4. Chemicals, cell culture and maintenance

The A459 lung adenocarcinoma and MCF7 breast cancer cells were purchased from NCCS, India. Both A549 and MCF7 cells were cultured in DMEM (Sigma) medium supplemented with 10 % Fetal Bovine Serum (HiMedia), antimycotic solution (HiMedia) and maintained in 5 % $\rm CO_2$ incubator at 37 °C. The cells were properly maintained for the further use.

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2.5. MTT cytotoxicity assay

The cytotoxicity potential of the compounds was determined using the MTT assay [34]. About 1×10^5 density of cells were seeded in 96-well plated and maintained in 5 % CO $_2$ incubator at $37\,^\circ\text{C}$ for 24 h. Then the cells were treated with the standard anticancer drug doxorubicin (Dox), and compounds 7b, 7 g, and 7 h ranging from at various concentrations (15.6 to 500 $\mu\text{M})$ to evaluate the dose response relationship (Fig 2). Then the cells were incubated in 5 % CO $_2$ incubator at $37\,^\circ\text{C}$ for 24 h. Then about 50 μL of MTT dye was added to the plates and incubated again for 2 h and following solubilized and then absorbance was measured at 570 nm using Multimode varioscan (Thermo Scientific).

2.6. Antimicrobial screening assay

The antimicrobial activity of synthesized molecules (7a-j) was tested against various gram-positive and negative microorganisms such as E. coli [MTCC 443], P. aeruginosa [MTCC 1688], S. aureus [MTCC 96], S. pyogenes [MTCC 442], and fungi such as C. albicans [MTCC 227], A. niger [MTCC 282] and A. clavatus [MTCC 1323]. The minimum inhibitory concentration (MIC) of the synthesized molecules was evaluated through the Mueller Hinton Broth dilution method following the National Committee for Clinical Laboratory Standards (NCCLS) protocol [35]. Initially the microorganisms were cultured in the broth solution and varying concentrations (1000 to 250 µg/mL) were taken in different tubes, to which various concentrations (50, 25, 12.5, and 10 $\mu g/mL$) of the compounds were added and incubated for 24 h. Alongside, Chloramphenicol, Ciprofloxacin & Norfloxacin were used as standards against bacteria and Nystatin & Griseofulvin were used as standards against fungal species used in the study. Then the minimum inhibitory concentration (MIC) of the compounds were evaluated by measuring the turbidity of the microbial broth [36].

2.7. Molecular docking analysis

In order to conduct our docking study, we obtained the 3D structures for the bacterial and fungal targets from the Protein Data Bank database, as indicated in Table 1 [37]. Then, we prepared the proteins by removing excess chains, water molecules, and bound ligands. Standard compounds such as Chloramphenicol, Ciprofloxacin, Norfloxacin,

Table 1
PDB IDs of bacterial and fungal targets.

Microorganism name	Target	PDB ID
Escherichia coli	CusC	3PIK
E. coli	Multidrug efflux pump submit AcrB	4U8V
Pseudomonas aeruginosa	MexABOprM	6IOL
Pseudomonas aeruginosa	TriABC	6VEJ
Staphylococcus aureus	Cadmium efflux system accessory protein	1U2W
Staphylococcus aureus	Multidrug Efflux Pump MepR	4LLL
Staphylococcus pyogenes	Tagatose-1,6-bisphosphate aldolase	5F2M
Staphylococcus pyogenes	Streptopain	6UQD
Candida albicans	Serine/Threonine phosphatase Z1	5JPF
Candida albicans	Sterol 14-alpha demethylase	5TZ1
Aspergillus niger	Chitinase B	6IGY
Aspergillus niger	Prolyl end proteases	7WAB
Aspergillus clavatus	SPHERULIN-4	5D6T
Aspergillus clavatus	M36 protease	7Z6T

Nystatin, and Griseofulvin were retrieved from the PubChem database, as shown in Table 2 [38]. Additionally, we predicted the 2D structures and smiles of our compounds using Chemdraw, and their 3D structures were retrieved using Open Babel. Finally, we minimized the compounds' energies using the MMFF94 force field in the Avogadro program version 1.2.0. [39].

The synthesized compounds were evaluated for their binding affinities and energies against various bacterial and fungal targets using Auto Dock Vina [40,41]. First, suitable active pockets of the targets were identified. Then, the grid box dimensions were set at $25\times25\times25$ in the X, Y, & Z directions with a point spacing of 0.375 Å. The compounds were docked against the targets using the Lamarckian genetic algorithm with 10 runs. Finally, the docked complexes were visualized using the Discovery Studio visualizer.

Table 2
PubChem IDs of standard drug compounds.

Target	PubChem ID
Chloramphenicol	5959
Ciprofloxacin	2764
Norfloxacin	4539
Nystatin	6,433,272
Griseofulvin	441,140

MTT cytotoxicity

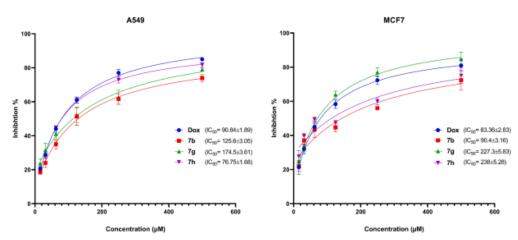


Fig. 2. MTT cytotoxicity.

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2.8. Statistics

For the statistical analysis, the graph pad prism 8 was used and the data were represented as Mean \pm SD. One-way ANOVA followed by Tukey's test and multiple comparisons test were employed to determine the significant difference between the control and treatment groups. The statistical difference * denotes p < 0.05, ** denotes p < 0.01, and *** denotes p < 0.005.

3. Results and discussion

3.1. Spectral characteristics

In order to ensure the accuracy of the proposed structure, each compound was characterized using FTIR, $^{13}\mathrm{C}$ NMR, $^{1}\mathrm{H}$ NMR, and LCMS techniques. The IR spectrum of compound 7a-j showed an absorption band at 1635-1689 cm-1, which was caused by the C = O group in the quinazoline moiety. Additionally, there was a strong absorption band at 1327-1381 cm-1, which was caused by the C-N linkage present in the rings. The C-Cl stretching vibration appeared at 756-763 cm⁻¹, while the OH broad band appeared at 3225-3302 cm⁻¹. Singlet peaks were observed in the range of $\delta = 8.7-9.6$ ppm in the ¹H NMR spectra of compound 7a-j. These peaks indicate that an imine (>HCN=) has been synthesized in the molecules. The formation of this imine was further confirmed by the disappearance of the primary amine peak of compound 4 at 5.05 δ ppm. Peaks in the range of $\delta = 7.4$ –6.8 ppm indicate the presence of aromatic protons. The OH peak singlet was observed at 10.33, 9.80, 9.83, and 9.42 ppm for compounds 7b, 7c, and 7 h, respectively. Furthermore, signals for CH $_3$ protons in compounds 7a-j were detected in the range of $\delta=2.50$ –2.71 ppm. The 13 C NMR spectrum of compounds 7a-j exhibited a distinct signal between δ = 169.8-162.8 ppm, which was attributed to the C=NH carbon. Additionally, the signal of O = C-N for all compounds was observed within the range of $\delta\,=\,157.9\text{--}159.3$ ppm. The signal of methyl carbon confirmed their appearance in all compounds appeared at $\delta=16.8\mbox{ and}$ 17.0 ppm. The mass spectra of compounds 7a-j showed respective molecular ion peaks that confirm their proposed structure. The experimental part provides the spectral values and C, H, N analysis data for all compounds.

3.2. Anticancer activity

The growth percent and mean growth percent of all compounds were evaluated for anticancer activity of the compounds and tabulated in Table 3, and newly synthesized compounds showed weak to low effects against all 60 evaluated cell lines when given a single dose of 10^{-5} M concentration. Compound 7b demonstrated good activity against

Table 3 Anticancer screening analysis.

Entry	Cancer Type	Active Cell Lines	Growth Percent	Mean Growth Percent
7a	BC	MCF-7	47.40±1.16	89.76±2.20
7b	M	MDA-MB-435	4.20 ± 0.35	47.40±1.75
7c	BC	T-47D	64.54±1.83	94.16±2.1
7d	RC	RXF-393	11.31 ± 0.91	59.54±1.85
7e	BC	T-47D	54.76±1.35	88.27 ± 1.90
7£	BC	T-47D	60.35 ± 2.1	98.40±2.51
7g	CNSC; BC	SNB-19; HS- 578T	6.55±0.95; 3.57 ±0.69	58.93±1.85
7h	NSCLC	NCI-H522	4.96±0.61	42.16±1.18
7i	BC	MDA-MB-231/ ATCC	18.11±0.78	60.92±1.12
7j	L	CCRF-CEM	45.75±1.34	86.12 ± 1.2

L = Leukemia; NSCLC = Non-Small Cell Lung Cancer; CRC = Colon Cancer; CNSC = Central Nervous System Cancer; OC: Ovarian Cancer; RC: Renal Cancer; BC: Breast Cancer: M = Melanoma.

Melanoma (MDA-MB-435 Cell lines), which was unusual. On the other hand, Compound 7 g had excellent activity against breast cancer (HS-578T) and cancer of the central nervous system (SNB-19), while Compound 7 h stood out as potent for treating Non-Small Cell Lung Cancer (NCI-H522). In the supplementary material, one-dose graphs with growth percentage values were provided (Figs. 51-60). From the screening analysis we observed that the compounds 7b, 7 g, and 7 h showed significant growth inhibition of cancer cells such as breast cancer, and lung cancer. So, we further performed MTT cytotoxicity assay of compounds 7b, 7 g, and 7 h in comparison with the standard anticancer drug doxorubicin in A459 lung adenocarcinoma and MCF7 breast cancer cells. The results revealed that these compounds are cytotoxic towards the cancer cells which was shown in the Fig. 2. When compared to other compounds 7 h (IC50=76.75±1.68) showed signification inhibition of A549 lung cancer cells, while doxorubicin showed IC_{50} =90.84±1.89. In MCF7 breast cancer cells, 7b (IC_{50} =90.4 ± 3.16) showed signification inhibition compared to other compounds, and the doxorubicin showed $IC_{50}=83.36\pm2.83$.

3.3. Antimicrobial activity

As per the results of the antimicrobial screening, the newly synthesized compounds exhibited varied levels of antimicrobial activity against the tested microorganisms when compared to standard medicines (Table 4). Compound 7d showed good efficacy against *E. coli*, while compounds 7e and 7 g displayed equipotent inhibition against *P. aeruginosa*. Compound 7 g (-3-CI) and 7j (-4-CI) showed equipotent inhibition against *S. aureus*, in reference to Chloramphenicol. Compound 7j showed excellent activity, and compounds 7e and 7i exhibited good inhibition against *S. pyogenes*. Among the tested fungal strains, compound 7d was found to be excellent against *C. albicans*, and compounds 7d and 7j showed equipotent inhibition against *A. niger*. None of the compounds were found to be active against *A. clavatus*. The remaining synthetic substances showed only minimal action against the examined microorganisms.

3.4. Molecular interactions of hit compounds with targets

Molecular docking analyses were conducted to evaluate the synthesized compounds and compare them with standard antibiotics, targeting crucial pathogens in both bacteria and fungi. The selected targets for the docking analysis included molecular targets that play a role in the growth, survival, metabolism, and antimicrobial resistance of pathogenic microorganisms. The compounds 7d and 7j were docked against the molecular targets (efflux pumps) pathogenic bacteria such as *E. coli, Pseudomonas aeruginosa, Staphylococcus aureus*, and *Staphylococcus pyogenes*, as well as pathogenic fungi such as *Candida albicans, Aspergillus niger*, and *Aspergillus clavatus*. The binding energies (Kcal/mol) of these compounds, along with those of standard antibiotics such as Norfloxacin, Chloramphenicol, Ciprofloxacin (for bacteria) and Nystatin and Griseofulvin (for fungi), were recorded in Table 5 and 6, respectively.

Protein and ligand complexes' affinity is inversely proportional to the binding energy. This means that the lower the binding energy (negative values), the higher the affinities and vice versa [42–45]. Based on Table 5 and 6, all synthesized compounds have affinities towards molecular targets of bacteria and fungi. Among them, compounds 7d and 7j showed significant binding properties against all bacterial targets. Notably, they demonstrated higher negative binding energies against *E. coli* targets, namely CusC (3PIK) with binding energies of -10.4 Kcal/mol and -10.2 Kcal/mol and Multidrug efflux pump submit AcrB (4U8V) with binding energies of -10.2 Kcal/mol and -10.5 Kcal/mol, respectively. Additionally, compounds 7d and 7j also exhibited significant binding properties against all fungal targets. They also displayed higher negative binding energies against the *A. niger* targets, Chitinase B (6IGY) with -12.5 Kcal/mol and -12.4 Kcal/mol, and Prolyl

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Table 4 Antimicrobial screening of the synthesized compounds 7a-j.

Sr. No	Structure	MINIMUM IN	MINIMUM INHIBITORY CONCENTRATIONS							
		FOR BACTER	FOR BACTERIA (MIC) in µg/mL				MIC) in µg/mL			
		Gram-negative	Gram-negative		Gram-positive		Fungi			
		E.C.a	P.A. b	S.A.°	S .P. d	C.A."	A.N./	A.C.8		
7a	N.N.	250±3.5	500±4.5	500±4	500±3	N.E. ^h	1200±5.5	1200±4.5		
7b		500±2.5	500±3.5	1200±5.5	250±3.5	1000±5.5	N.E.	500±4.5		
7c		250±2.5	500±2.5	250±1.5	250±2.5	1200±5	500±4.5	500±5.5		
7d		25±0.5	62.5 ± 1.5	100±1.5	100±0.5	100±0.5	100±0.5	250±1.5		
7e	Br Br N. N.	100±2.5	50±2.5	100±1.5	50±1	1000±5.5	250±3.5	1000±4.5		
7f		500±3.5	1000±4.5	N.E.	500±3.5	1000±4	250±2.5	N.E.		
7g	H ₂ CO	100±0.5	50±1.5	50±2	100±2.5	500±3.5	1000±4	500±3.5		
7h	N N COH	1000±3.5	500±4	250±2.5	500±3.5	N.E.	1000±3	1000±5.5		
7i	N CI	250±2.5	100±1.5	100±2.5	50±1.5	1000±5.5	500±3.5	250±2		

(continued on next page)





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Table 4 (continued)

Sr. No	Structure	MINIMUM INHIBITORY CONCENTRATIONS							
		FOR BACTE	FOR BACTERIA (MIC) in µg/mL				FOR FUNGI (MIC) in µg/mL		
		Gram-negative		Gram-positive		Fungi			
		E.C.	P.A. ^b	S.A.°	S.P.d	C.A."	A.N.	A.C. ^g	
7j	N.N. CI	100±1	62.5 ± 1.5	50±0.5	25±0.5	250±1	100±1.5	250±1.5	
S.d. 1	Chloramphenicol	50±0.5	50±0.5	50±1	50±0.5	_	_	_	
S.d. 2	Ciprofloxacin	10±1	10±1	20 ± 1.5	20 ± 0.5	_	_	_	
S.d. 3	Norfloxacin	10±1	10 ± 0.5	10 ± 0.5	10±1				
S.d. 4	Nystatin	_	_	_	-	100 ± 1	100 ± 0.5	100 ± 1.5	
S.d. 5	Griseofulvin	-	-	-	-	500±1.5	100 ± 0.1	100 ± 0.5	

* E.C.: E. coli MTCC 443.

b P.A.: Pseudomonas aeruginosa MTCC 1688.

S.A.: Staphylococcus aureus MTCC 96.

^d S.P.: Staphylococcus pyogenes MTCC 442.
^e C.A.: Candida albicans MTCC 227.

f A.N.: Aspergillus niger MTCC 282.

8 A.C.: Aspergillus clavatus MTCC 1323.

N.E.: Non effective.

i S.d.: Standard drug.

Table 5 Binding energies of compounds against bacterial targets.

Compounds Binding energies (Kcal/mol)								
	ЗРІК	4U8V	6IOL	6VEJ	1U2W	4LLL	5F2M	6UQD
7a	-7.2	-9.3	-8.6	-7.5	-7	-8.9	-8.2	-8.4
7b	-7.6	-9.3	-8.2	-8.6	-7.1	-8.4	-8.5	-7.6
7c	-8	-9.6	-8.5	-8.5	-7.3	-8.1	-8.5	-7.8
7d	-10.4	-10.2	-8	-8.9	-8.2	-8.1	-8.4	-8.7
7e	-7.5	-8.3	-7.7	-7.7	-8.3	-7.6	-8.4	-7.6
7f	-8.1	-8.5	-7.5	-8.6	-7.9	-8.1	-7.4	-8.3
7g	-7.1	-8.6	-7.8	-8.8	-7.1	-8.1	-8.3	-8.1
7h	-7.2	-8.3	-7.6	-7.9	-7.1	-7.6	-7.8	-7.9
7i	-8.1	-8.4	-8.9	-8.5	-8.1	-7.7	-8.4	-8.6
7j	-10.2	-10.5	-8.5	-8	-8.2	-8.1	-8.1	-8.1
Chloramphenicol	-5.9	-6.5	-5.8	-6.8	-5.8	-6.8	-7.7	-6.6
Ciprofloxacin	-6.5	-8.2	-5.9	-88	-5.3	-8.2	-7.3	-6.3
Norfloxacin	-7.2	-7.1	-6.7	-7.2	-6.6	-7.7	-7.8	-6.5

Table 6 Binding energies of compounds against fungal targets.

Compounds	Binding energies (Kcal/mol)							
	5JPF	5TZ1	6IGY	7WAB	5D6T	7Z6T		
7a	-8.6	-8.9	-8.9	-9	-9.3	-8.1		
7b	-8.5	-8.6	-8.9	-9.9	-9.4	-8		
7c	-8.1	-8.2	-9.1	-8.9	-8.7	-8.2		
7d	-9.2	-9.1	-12.5	-10.3	-9.3	-9.7		
7e	-8.1	-8.4	-9.7	-9.7	-8.9	-8.4		
7f	-8.6	-8.3	-8.7	-9.7	-9.2	-8.5		
7g	-8.1	-8.3	-9.4	-8.1	-9.4	-8.3		
7h	-8.4	-8.5	-9.1	-9	-9.3	-8.6		
7i	-8.4	-8.3	-9	-8.6	-9	-8.6		
7j	-9.6	-9.1	-12.4	-11.2	-9.4	-9.7		
Nystatin	-7.1	-8.6	-9.8	-9.6	-8.5	-9.2		
Griseofulvin	-6.7	-7.6	-7.2	-7.2	-6.7	-6.8		

endoprotease (7WAB) with -10.3 Kcal/mol and -11.2 Kcal/mol,

In addition, the hydrogen bonds are crucial in stabilizing proteinligand complexes, which ensures the significant activity of the ligand molecule over the protein [34,46-49]. The supplementary Table 1

shows that H-bond interactions, along with other interactions such as hydrophobic interactions, electrostatic interactions, and Vander wall's force, are present. The 3D and 2D binding interactions of 7d and 7j against E. coli targets, specifically CusC (3PIK), and Multidrug efflux pump submit AcrB (4U8V), are shown in Fig 3. Further, the 3D and 2D binding interactions of 7d and 7j against A. niger targets, namely Chitinase B (6IGY), and Prolyl endoprotease (7WAB), are shown in Fig 4.

From the analysis of protein-ligand interactions, we can see that compound 7d had one hydrogen bond and six other interactions with CusC, as well as one hydrogen bond and two other interactions with the Multidrug efflux pump AcrB. On the other hand, compound 7j had seven other interactions but no hydrogen bond with CusC, and eight other interactions but no hydrogen bond with AcrB. Additionally, 7d showed one hydrogen bond and seven other interactions with Chitinase B, as well as two other interactions but no hydrogen bond with Prolyl endoprotease. Similarly, 7j had one hydrogen bond and six other interactions with Chitinase B, and two other interactions but no hydrogen bond with Prolyl endoprotease. Notably, both 7d and 7j had similar bonding interactions with the molecular targets, as shown in Fig 3 and 4, and supplementary Table 1.

We observed from the docking analysis and antimicrobial data that compounds with halogen groups showed potent activities. Compounds





NAAC – Cycle – 1				
AISHE: U-0967				
Criterion 3 R I & E				

M 3.7.1

KI 3.7

N. Ramani et al. Journal of Molecular Structure 1310 (2024) 138256 A2 A1 **B1** B₂ A:146 C1 C2 D1 D2 Conventional Hydrogen Bond

Fig. 3. Binding interactions of 7d and 7j against E. coli. targets [3D (left panel) and 2D (right panel) interactions of 7d (A1 and A2) and 7j (B1 and B2) against CusC (3PIK), and the 7d (C1 and C2) and 7j (D1 and D2) against Multidrug efflux pump submit AcrB (4U8V) were shown respectively].

Alkyl

Pi-Alkyl

Amide-Pi Stacked

9





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KI 3.7	M 3.7.1			

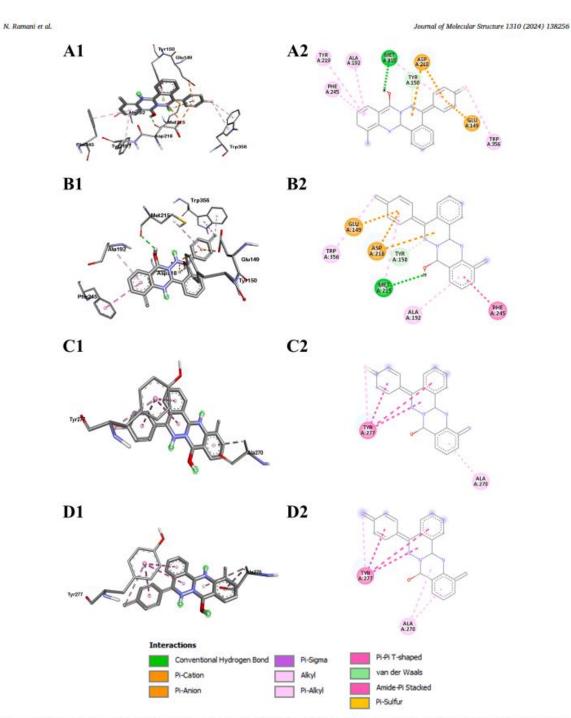


Fig. 4. Binding interaction on of 7d and 7j against A. niger targets [3D (left panel) and 2D (right panel) interactions of 7d (A1 and A2) and 7j (B1 and B2) against Chitinase B (6IGY), and the 7d (C1 and C2) and 7j (D1 and D2) against Prolyl endoprotease (7WAB) were shown respectively].

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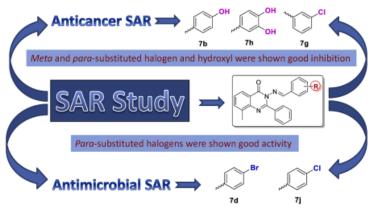


Fig. 5. SAR for anticancer and antimicrobial study.

with bromine (-Br) and chlorine (-Cl) substitutions were found to be more effective than the alcohol-substituted compound. Notably, the substituted groups in the para position (7d and 7j) showed higher efficacy than the meta and ortho position substituted compounds. The MIC of 7d and 7j against all bacterial strains was below 100 µg/mL, and the MIC of 7d and 7j against all fungal strains was below 250 µg/mL, as shown in Table 4. The synthesized compounds, 7d and 7j, exhibited significant binding energies and potent antimicrobial potential against pathogenic bacteria and fungi. Though these compounds showed significant inhibition potential against the molecular targets (growth, survival, metabolism, and antimicrobial resistance, efflux pumps) of the pathogenic microorganisms, we also suggest to evaluate these compounds in combination with standard antibiotics to increase the synergistic effect. Therefore, these compounds can be further investigated as potential leads against these pathogenic microorganisms in the future.

4. SAR study

A study was conducted to investigate the correlation between the structure of a compound and its antimicrobial and anticancer properties. The study found that the only factors that affect the activity of produced compounds are various substitutes (-R) attached to the aromatic ring. The positions of electron-donating groups (EDGs) and electronwithdrawing groups (EWGs) were found to significantly influence the effectiveness of antimicrobials and anticancer agents. It was found that only compounds with halogen substitutes that withdraw electrons were effective in antimicrobial studies. Among these, compounds 7d and 7j with electron-withdrawing groups (-Br and -Cl) at the para location showed good antimicrobial action and binding energy compared to compounds with meta and ortho substituted groups (7e, 7 g and 7i). In anticancer studies, it was found that electron-donating groups like hydroxyl and electron-withdrawing groups like chloro were both effective. However, this study showed that there were limitations to the effects of both types of groups. The good anticancer activity observed in compounds 7b and 7 h was attributed to the presence of EDG (-OH) in the para and meta positions, while the meta-substituted chloro group compound 7 g was also effective against two types of cancer (Fig 5).

5. Conclusion

Several new quinazolinone Schiff's base compounds were synthesized from 3-amino quinazolinone intermediates that were obtained by a modified fusion method. These derivatives were then evaluated for their potential as anticancer and antimicrobial agents through docking analysis. When compared to traditional treatments for anticancer activity in a single dose screening, the newly synthesized compounds exhibited weak to low effect against 60 cancer cell lines tested. However, compound 7b (4-OH) showed strong efficacy against Melanoma (MDA-MB-435 Cell lines). Compound 7 g (3-Cl) was particularly remarkable as it showed efficacy against both breast cancer (HS-578T) and central nervous system cancer (SNB-19). Finally, compound 7 h was found to be successful in treating Non-Small Cell Lung Cancer (NCI-H522). The results of the antimicrobial screening indicated that the newly synthesized compounds 7d and 7j, which contain halogen, showed significant effectiveness in inhibiting microbial growth. Notably, the compounds with substituted groups in the para position (7d and 7j) demonstrated higher antimicrobial activity than the ones with substituted groups in the meta and ortho positions. In addition, docking analysis revealed that compounds 7d and 7j exhibited significant affinities towards molecular targets of both bacteria and fungi. They also showed higher negative binding energies against these targets. Though these compounds showed significant inhibition potential against the various molecular targets (growth, survival, metabolism, and antimicrobial resistance, efflux pumps) of the pathogenic microorganisms, we also suggest to evaluate these compounds in combination with standard antibiotics to increase the synergistic effect. Therefore, these compounds have the potential to be studied further as potential treatments for harmful microorganisms in the near future.

CRediT authorship contribution statement

Naimish Ramani: Writing – original draft, Validation, Methodology, Investigation, Formal analysis, Conceptualization. Bonny Y Patel: Writing – review & editing, Visualization, Validation, Supervision, Project administration, Methodology, Investigation, Formal analysis. Gopal Italiya: Writing – original draft, Visualization, Validation, Software, Resources, Methodology, Data curation. Prasanna Srinivasan Ramalingam: Writing – original draft, Visualization, Validation, Software, Methodology, Investigation, Data curation. Rudra Mishra: Writing – original draft, Validation, Investigation, Formal analysis, Data curation. Sangeetha Subramanian: Writing – review & editing, Visualization, Validation, Supervision, Project administration, Methodology, Investigation, Formal analysis, Data curation. Sanjay D Hadiyal: Writing – original draft, Validation, Investigation, Data curation.

Declaration of competing interest

The authors declare that they have no conflicts of interest for this research publication.

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Data availability

No data was used for the research described in the article.

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Supplementary materials

Supplementary material associated with this article can be found, in the online version, at doi:10.1016/j.molstruc.2024.138256

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NAAC – Cycle – 1				
AISHE: U-0967				
Criterion 3	RI&E			
KI 3 7	M 3.7.1			





MEMORANDUM OF UNDERSTANDING

Between

DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, ATMIYA UNIVERSITY, RAJKOT

and

AJANTA POLYMER

SURVEY No. 203, PLOT No. 3, NARMADA ROAD, SHAPAR-VERAVAL, RAJKOT - 360024

Whereas the above-named institutions recognize that a Memorandum of Understanding (MOU) would be of mutual benefit and would serve as an indication of continued interest in academic cooperation, it is understood that:

- Each institution will promote one or more of the following activities based on their respective Academic and Industrial needs: (Kindly put √ mark)
 - Curriculum Design Research and Development Γ 1 Industrial Training & Visits B. F. Skill Development Programs 1 1 Internships for Students C. G. Guest Lectures 1] D. Placement for Students H. Faculty Development Programs
- 2. Specific exchanges or activities that may be developed under the framework of this MOU shall be mutually discussed and agreed upon in writing by both parties prior to the initiation of that activity. Terms of cooperation and details of exchanges, joint programs or activities are to be developed through bilateral discussion and agreement on a case-by-case basis and attached as additions succeeding to the signing of this MOU. Each institution further agrees to appoint respective coordinators at the appropriate time for the specific activities agreed upon.
- 3. This MOU will become effective on the date of the last signature. It shall remain in force for a Period of five (5) year/s with the understanding that either institution may terminate it by giving 30 days' notice to the other party in writing, unless an earlier termination date is mutually agreed upon. The MOU may be amended or extended by mutual written consent of the Parties.

The parties hereby establish this MOU by duly signing it as of the respective date below.

Head

Department of Chemistry

Atmiya University

Rajkot - 360005

Date - 15/02/2022

Head of Department

Department of Chemistry Faculty of Science

Atmiye University Rajkot council ou BK

Mr. Bhavesh Changela

Director

Ajanta Polymer

Shapar-Veraval - 360024

Date - 15/02/2022

FOR, AJANTA POLYMERS

CHUNGELLI 13 K

PARTNER

Atmiya University, Rajkot-Gujarat-India **Registrar**





NAAC – Cycle – 1			
AISHE: U-0967			
Criterion 3 R I & E			
KI 3.7	M 3.7.1		



Survey No.203, Plot No. 03, Narmada Gate B/h Inova Cast Pvt. Ltd., At, Veraval (Shapar)Ta.Kotda Sangani, Dist.:Rajkot - 360024. Mobile No.:98252 18230,98795 18230 E-Mail: ajantapolymersbkc@yahoo.com

Date: 01/02/2021

This is to certify that Mr. Patel Meet Pravinchandra Roll No. 66 B.Sc. Chemistry semester - 6 student of Department of Chemistry ATMIYA UNIVERSITY, Rajkot has successfully completed the Industrial Visit in January 2021.

During the visits he was found to be Inquisitive and having positive attitude with learning initiatives.

We wish him the very best for future academic career.

Thank you.

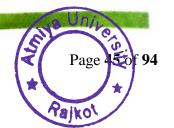
For,

Ajanta Polymers

250

(Partner)







NAAC – Cycle – 1			
AISHE: U-0967			
Criterion 3 R I & E			
KI 3.7	M 3.7.1		

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN



ATMIYA UNIVERSITY

RAJKOT - 360005, GUJARAT, INDIA

AND



AIC-NIFTTEA, INCUBATION CENTRE FOR TEXTILES AND APPARELS

TIRUPUR, TAMILNADU, INDIA







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AISHE: U-0907		
Criterion 3 R I & E		

M 3.7.1

KI 3.7



TIRUPPUR.

BB 687964 மேத்திரைத்தாள் விற்பலையான

ழத்திரைத்தாள் விற்பணையி**ள்** உரியம் எண்: :3/2008/ஈரோடு ஊத்துக்குளிடவுள், தமிழ்நாடு

AIC-NIFT TEA

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MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (herein after called as MoU) is entered into on 22nd Day of February ,2021 by and between Atmiya University, Rajkot - 360005, Gujarat, India, along with the other institutions under the Sarvoday Kelavani Samaj (the Sponsoring Body), for more expansive reach and outcomes, on campus being represented herein by SADHU TYAGVALLABHDAS, President, Atmiya University, Rajkot - 360005, Gujarat, India(herein after referred as First Party. The Institution which expression, unless excluded by repugnant to the subject or context shall include its successors-in-office, administrators and assignees).

and

AIC NIFT- TEA, Incubation Center for Textiles and Apparels, Tirupur represented herein by Mr.S.PERIASAMY, CEO, AIC NIFT-TEA Incubation Centre for Textiles and Apparels, East of TEKIC, Mudalipalayam, Tirupur – 641606, Tamilnadu (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigned.

Atmiya University, Rajkot-Gujarat-India



NAAC – Cycle – 1				
AISHE: U-0967				
Criterion 3 R I & E				
KI 3.7 M 3.7.1				

First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party & Second Party believe that collaboration and cooperation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities to the Students.
- B) The Parties intent to cooperate and focus their efforts on cooperation within area of Entrepreneurship development, Education and Research.
- C) Both the Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.
- D) AIC NIFT- TEA, Incubation Centre for Textiles and Apparels, Tirupur, supported by Atal Innovation Mission, the Second Party is engaged in Entrepreneurship Development, New product Development and Innovation, Skill Development, Education and R&D Services in *Textiles and Apparels* and related fields. ATMIYA University bestows wisdom and knowledge upon the learner to recognize this particular role. ATMIYA University emphasizes to train young minds in consonance with the doctrines of higher education and human values. The aim of this University is to spread eternal happiness and to create a happy society in letter and spirit.

Now, Therefore of the Mutual Promises set forth in this MoU that, both the Parties here to agree as Follows:

Clause 1- Co-operation

- 1.1. Both Parties shall work towards common interests and objectives, and they shall establish channels of communication and cooperation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2. First Party and Second Party cooperation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in identifying new technology & sustainable business, encouraging research collaborations and promote entrepreneurial services keeping in mind the needs of the Incubation Center, the Second Party.

Clause 2 -Objectives of the MoU

2.1. The budding graduates and faculty members from the Institution could play a key role in Developing business potential concepts and ideas, building innovative solutions, and

Atmiya University, Rajkot-Gujarat-India Registrar





NAAC – Cycle – 1				
AISHE: U-0967				
Criterion 3 R I & E				
KI 3.7 M 3.7.1				

Entrepreneurship. Both parties believe that close cooperation between the two would be of major benefit to the student community and faculty members to enhance their Entrepreneurial skills and knowledge.

- 2.2. Entrepreneurship Forums & Visits: Incubation Center and Institution interaction will give an insight in to the latest developments / requirements of the Start-ups; the Second Party to permit the faculty and students of the First Party to visit its premises and also Participate in Entrepreneurship forums and workshops to make presentations, participate in panel discussion or other similar events for the First Party. The Second Party will provide its Incubation facilities / hands-on training / Internship Programmes / Pre-Incubation Programmes of the learners enrolled with the First Party on terms agreeable to both the parties.
- 2.3. Research and Development: Both Parties have agreed to carry out the joint research activities in Textiles and Apparel and related fields.
- 2.4. AIC-NIFT TEA act as a Knowledge Transfer Centre (KTC) and interface between Educational Institutions and Industry. As a KTC AIC – NIFT TEA will facilitate the transfer of knowledge, ideas of students / faculty.
- 2.5. Faculty Development Programs: Second Party to train the faculty members of First Party for imparting training as per the requirement of Entrepreneurship and Startups on Entrepreneurial mind set, Entrepreneurial methods, Design thinking, Designing Business models and Building Network and Eco system at an agreeable fee fixed with the mutual consent of both first and second party at the time when required.
- 2.6. Startup Business: Second Party will actively engage to help the aspiring students and faculty members of the First Party into Successful Startups.
- 2.7. Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for the terms specified herein.
- 2.8. There is no financial commitment on the part of Atmiya University, the First Party and AIC-NIFT TEA Incubation Centre for Textiles and Apparels, the Second Party to take up any programme mentioned in the MoU.
- 2.9. Both Parties agree to respect each other's rights to intellectual property. Further, the intellectual property rights that arise as a result of any activity under this MoU will be worked out on a case-by-case basis, and will be consistent with the officially laid down IPR policies of both the Parties.

Atmiya University, Rajkot-Gujarat-India **Registrar**





NAAC – Cycle – 1			
AISHE: U-0967			
Criterion 3	R I & E		
KI 3.7 M 3.7.1			

3. Role of Parties:

The First Party: ATMIYA UNIVERSITY

- May work jointly on research projects with AIC-NIFTTEA, the nature of sharing of roles and responsibilities as would be specific to each research project.
- Will conduct Innovation, Incubation and Entrepreneurship related short term programmes for students and faculty members of the Institution to nurture the entrepreneur dreams of the stakeholders.
- Will conduct market surveys, project feasibility studies and such other studies which will be of benefit for both the Atmiya University and AIC-NIFTTEA.
- Will offer its consultancy services in the field of textiles, technical textiles, management and allied disciplines.

The Second Party: AIC-NIFTTEA Incubation Centre

- Will coordinate with Atmiya University in framing and updating periodically the curriculum and syllabus for various textile related courses.
- Will facilitate access to the facilities of its members to the Atmiya University faculty and students for the purposes of practical knowledge in general and study of specific issue in particular that may be identified.
- Will offer students of Atmiya University in doing their internship training / project works with AIC-NIFTTEA.
- Will facilitate students of Atmiya University in taking up training programmes at AIC-NIFTTEA as part of the curriculum.

Clause 4-Validity

4.1 This Agreement will be valid in force for a period of 3 years from the date of signing of agreement subject to renewal by mutual consent of both the parties. However, both the parties reserve their right to terminate the agreement at any time by giving one-month prior notice in writing.

Clause 5-Relationship between the Parties

5.1 It is expressly agreed that **First Party** and Second **Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

Atmiya University, Rajkot-Gujarat-India **Registrar**

Atmiya University Rajkot Page 50 of 94

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NAAC – Cycle – 1			
AISHE: U-0967			
Criterion 3	RI&E		
KI 3.7 M 3.7.1			

Clause 6 - Arbitration Clause

6.1 Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party.

Agreed and Signed on: 22nd Day of February ,2021

ATMIYA UNIVERSITY,

Yogidham Gurukul, Kalawad Road Rajkot - 360005, Gujarat, India.

Authorized Signatory

SADHU TYAGVALLABHDAS,

President, Atmiya University, Rajkot - 360005, Gujarat, India https://atmiyauni.ac.in/

Witness1:

Universe *

AIC NIFT-TEA

Incubation Centre for Textiles and Apparels

SIDCO, Mudalipalayam, Tirupur- 641606, Tamil Nadu.

Speniasamy

Authorized Signatory

Mr. S.PERIASAMY

Chief Executive Officer

AIC-NIFTTEA Incubation Centre

http://www.aicnifttea.org

Witness2

AIC-NIFT TEA APARTIES TO THE TOTAL OF THE TO





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Criterion 3	R I & E	

Incubation Centre for Textiles & Apparels
Supported by
Atal Innovation Mission, NITI Aayog, Govt. of India









KI 3.7



M 3.7.1

'Tex-Start"



www.aicnifttea.org

Early Stage Entrepreneurs
Accelerator Programme

- Say goodbye to old legacy...

- Are you the start-up going to revolutionize your sector?

- Scale your vision into a thriving business

Phase 1: Design Thinking and Innovation

Phase 2: Group Dynamics & Prototype Development

Phase 3: Pitching & Incubation

Start Date: 20 March 2021 - 20 April 2021

Or. ASHISH KOTHARI- 98983 74961 Dr. K.SENTHIL KUMAR -9965577994



Atmiya University, Rajkot-Gujarat-India





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Timestamp	Name	Department	Institute / Entity name	Mobile	E-mail	Innovation Stage
3-9-2021 17:13:06	Jhanvi Vadi	Bsc. Microbiology	Aatmiya university	9879842868	jhanvivadi.31@gmail.com	Ideation, prototype, Scaleup
3-12-2021 10:10:07	Nandaniya krisha ashokbhai	B. Sc microbiology	Aatmiya university	9016819608	Krishanandaniya28@gmail.com	prototype
3-6-2021 10:23:00 3-5-2021 21:02:44	Shefali A Patel Prof. Darshan V. Patel	Biotechnology Mechanical Engineering	Aatmiya University Ahmedabad institute of Technology, Ahmedabad	6351766128 8401304649	shefalichovatiya2712@gmail.com darshan.patel@aitindia.in	Scaleup Ideation, prototype, Scaleup
3-15-2021 14:54:59	Langhnoja Akash M	Mechanical	AITS	8320598092	langhnojaakashaml@gmail.com	Ideation
3-15-2021 14:00:15	Parth Patel	Civil	AITS	6353777853	1129parth@gmail.com	Ideation
3-12-2021 19:11:08 3-6-2021 21:16:45	mungra sneha prakashbhai Rajvi donga	BSc Biotechnolgy IMBA	Atamiya university Atmiy institution of management	7436044970 Vivo y12	snehupatel1315@gmail.com rajvidonga5347@gmail.com	prototype Ideation
3-7-2021 13:10:22	Chandresh	BBA EFB	Atmiya	8849296644	chandreshbapu178@gmail.com	prototype
3-8-2021 13:57:16	Jayesh pidhadiya	Commerce (EM)	Atmiya	9737897689	jaypidhadiya2004@gmail.com	Ideation
3-15-2021 10:12:22 3-8-2021 18:04:31	Monish sagar Trivedi Mihir Pareshbhai	Mechanical BBA(EFB)	Atmiya Atmiya	+919033737212 9428747398	Monish sagar mihirtrivedi 1702@gmail.com	Ideation Ideation
3-6-2021 13:50:40	Yash patel	Commerce	Atmiya Atmiya	8866230224	Yashsavaliya413@gmail.com	Ideation
3-10-2021 9:38:00	Brinda vadukiya	Imba	Atmiya instead of technology	9510363790	brinda2242@gmail.co	Ideation
3-6-2021 18:22:44 3-6-2021 21:21:35	Jhanvi dedakiya	B.com	Atmiya Institute	9428586182 9016383040	janvidedakiya@gmail.com	Ideation Scaleup
3-15-2021 8:43:44	Trada GunjanKumar Nandaniya Rohan	Imba B.com	Atmiya institute of management Atmiya institute of technology	8780444075	gunjantrada521@gmail.com rohannandaniya@gmail.com	Ideation, Scaleup
3-15-2021 14:54:58	Jitendra Rameshbhai Sagathiya	Mechanical Engineering	Atmiya Institute Of Technology And Science	8347752272	sagathiyajitendra27@gmail.com	Ideation
3-15-2021 13:32:00 3-6-2021 23:41:36	Kevin Pansuriya Bhojani umang	Mechanical engineering B.com	Atmiya institute of technology and science Atmiya univercity	9624337677 9173369814	kkpansuriya8@gmail.com bhojaniumang9295@gmail.com	Ideation Ideation
3-10-2021 18:29:16 3-15-2021 12:27:36	Aarti gohil	MSc biotechnology	Atmiya University	8200632843 7984268137	gohilaarti66@gmail.com	Ideation, prototype, Scaleup
3-16-2021 9:42:33	Abhilasha Kumari Bhavya	Biotechnology Bio technology	Atmiya University Atmiya University	076 0088 9998	abhilasha16kumari@gmail.com bhavyaparmar999@gmail.com	Ideation Ideation, prototype
3-15-2021 14:28:10 3-10-2021 16:15:58	Bhimani Krishna Bhoomi yora	Msc microbiology B.sc. Microbiology	Atmiya University Atmiya university	7567978652 7016076922	bhimanikrishna12@gmail.com bhoomivora1502@gmail.com	Ideation prototype, Scaleup
3-6-2021 10:46:12	CHAVDA MADHAV GHUSABHAI	B.com Logistics	Atmiya University	8849888743	chavdamadhav60@gmail.com	Ideation
3-6-2021 10:37:45	Darshan Bhimani	Boom logistics	Atmiya University	9426928271	darshanbhimani7291@gmail.com	Ideation
3-7-2021 1:34:03 3-6-2021 9:13:58	Dhwani Chitroda	FOBC	Atmiya University	09769113327 09712343120	dhwanichitroda@gmail.com	Scaleup
3-6-2021 9:03:53	Divyang S Tiwari Dr. M. Sandeep kumar	Management Commerce	Atmiya University Atmiya University	8098045456	placement@atmiyauni.ac.in sandeep.kumar@atmiyauni.ac.in	Ideation, prototype, Scaleup Ideation
3-10-2021 15:23:57 3-10-2021 12:53:49	Ganjani Sagar Kamleshbhai Happy	Microbiology B. Sc microbiology	Atmiya University Atmiya University	9870098563 9978244451	sagarkganjani127@gmail.com lakkadhappy66@gmail.com	Scaleup prototype
3-6-2021 17:05:57 3-6-2021 10:39:28	Harsh Patadiya	IMBA	Atmiya university	8511965276 9328517250	harshpatadiya882@gmail.com	Ideation, prototype, Scaleup
3-7-2021 8:18:15	Itisha vekariya Jadeja Amardeepsinh	B. Com logistics B.com	Atmiya university Atmiya University	9773432493	Vekariyaitisha@gmail.com amardeepsinh288@gmail.com	Ideation Ideation
3-12-2021 21:36:26 3-6-2021 10:37:36	Jaina Mitulkumar Patel kajal sindhav	BSc. Biotechnology bcom logistics	Atmiya University atmiya university	9978152909 6353437525	jainapatel.199@gmail.com kajalsindhav123@gmail.com	Ideation, prototype, Scaleup Ideation
3-6-2021 10:39:25 3-6-2021 9:01:18	Karena Mohit Pareshbhai	B.com logistics	Atmiya University	8128413377 7624040367	mohitkarena222@gmail.com krunalpatel8817@gmail.com	Ideation
3-10-2021 14:30:31	Krunal Vekariya Kukkad Najmin Gafarbhai	B.com (logistics) Microbiology	Atmiya University Atmiya University	7624069402	kukadnazmin78692@gmail.com	Ideation, prototype, Scaleup Ideation, prototype, Scaleup
3-15-2021 21:39:49 3-6-2021 23:25:34	Kuvadiya Sanjana dilipbhai Megha Rupareliya	Bsc biotechnology Microbiology	Atmiya University Atmiya university	6351797477 6351551120	kuvadiyasanjana@gmail.com megharupareliya1512@gmail.com	Ideation Ideation
3-6-2021 10:36:30	Mihir Hitenbhai Ranpura	Commerce	Atmiya University	7405393338	mihimanpura22@gmail.com	Ideation
3-6-2021 9:41:25 3-7-2021 9:46:50	Pambhar Rajen Hasmukhbhai Parsaniya Freny Vikrambhai	Bsc Microbiology BSc microbiology	Atmiya University Atmiya University	9106721180 9428891400	rajenpatel2119@gmail.com frenyparsaniya@gmail.com	Ideation, prototype, Scaleup prototype
3-6-2021 10:36:23 3-6-2021 20:54:25	Parth Gajera Pritam Yadav	bcom logostics B.com (logistics)	atmiya university Atmiya University	7600066117 7652008725	frenyparsaniya@gmail.com parthgajera3345@gmail.com preetsyadav147@gmail.com	Ideation Ideation
3-15-2021 12:26:48	Sarika Singh	Biotechnology	Atmiya University	6353500580	sarikasingh37564@gmail.com	Ideation
3-7-2021 10:33:40 3-15-2021 14:09:05	Talpara Janvi Sanjaybhai. Teli Mitangi	Bsc Microbiology Sem-2 M.Sc. Biotechnology	Atmiya University Atmiya University	9427023203 9427802154	janvitalapara@gmail.com mitangiteli@gmail.com	prototype Ideation
3-6-2021 10:38:26	Vagh Jaydeep H.	B.Com(Logistics)	Atmiya University	9426664248 8200358844	mitangiteli@gmail.com jaydeepvagh58@gmail.com	Ideation Section
3-12-2021 21:31:05 3-6-2021 10:37:22	Avni ruturaj dhamdhere Deep Bakori	Biotechnology B.com logistics	Atmiya University Atmiya university	7990153753	avnidhamdbere@gmai.com deeppatel7826@gmail.com	Ideation, prototype, Scaleup Ideation
3-8-2021 10:38:55 3-6-2021 9:48:30	Dharmik gosai Divyanshu Solanki	B.com logistics Bsc Microbiology	Atmiya University Atmiya University	8980591010 8320852003	Dhamikgosai9497@gmail.com divyanshusolanki18@gmail.com	Ideation Ideation
3-6-2021 17:52:32	Harshkumar Kiritbhai Parmar	Mechanical- CAD/ CAM	Atmiya university	7698019041	hkparmar777@gmail.com	Ideation, prototype, Scaleup
3-6-2021 10:37:58 3-6-2021 10:58:51	jhanvi tanti Khushi modia	boom logistics Bsc microbiology	atmiya university Atmiya university	9327960260 9825800568	jhanvitanti03@gmail.com Khushimodia10@gmail.com	Ideation Ideation
3-7-2021 12:51:59 3-6-2021 13:39:37	Kukad Tashin T. Mansi parmar	BBA(EFB) Microbiology	ATMIYA UNIVERSITY Atmiya university	9737633674 8200497210	tashinkukad3@gmail.com mansiparmar201@gmail.com	Ideation Ideation
3-6-2021 9:45:46	Mansi Vaishnav Deepakbhai	B.Sc.Microbiology	Atmiya University	9727350443	mansivaishnav272@gmail.com	Scaleup
3-15-2021 19:17:15 3-6-2021 9:42:36	Maru vibhuti ashokbhai Mehul Baraiya	Civil Electronics & Communication	Atmiya university Atmiya University	+918980228056 9374141890	Vibhutimaru777@gmail.com Mehul.baraiya.29989@gmail.com	Ideation Ideation
3-14-2021 19:22:51 3-12-2021 21:30:04	Patel aastha bhaveshbhai Patel yesha chetanbhai	B.sc biotechnology Biotechnology	Atmiya University Atmiya University	8849328892 8160195222	aastha192p@gmail.com Pyesha310@gimal.co	Ideation Ideation, prototype, Scaleup
3-12-2021 12:22:36	POOJA BOPALIYA	Biotechnology	Atmiya university	9574387873	poojabopaliya@gmail.com	Ideation
3-10-2021 19:42:39 3-6-2021 10:35:18	PRIYAL PANDYA .S Riddhi Bhalodiya	IMBA BCom logistics	Atmiya University Atmiya University	9265191354 9265543435	Priyalpandya3@gmail.com riddhibhalodiya660@gmail.com	Ideation Ideation
3-6-2021 10:37:05 3-7-2021 11:28:46	Rushit	B.com(L)	Atmiya university	9537207023 9574299115	Sojitrarushit.1@gmail.∞m	Ideation
3-15-2021 19:15:21	Sanjana Ramani Thumar Rutvi Jitendrabhai	B.sc.Microbiology Civil	Atmiya University Atmiya university		sanjanaramani41@gmail.com	protobres
3-6-2021 16:31:00 3-12-2021 13:00:54	Trayambak Tiwari Varsani Dilip ratnabhai		Autilya utiliversity	8866515260	rutvipatel9973@gmail.com	prototype Ideation
3-6-2021 10:59:56 3-15-2021 15:51:53		IMBA Biotechnology	Atmiya University	7991781379 8238500832	tiwaritrayambak7247@gmail.com	
3-7-2021 6:30:06	VATSAL MEHTA	Biotechnology Business and Commerce	Atmiya University Atmiya University Atmiya University	7991781379 8238500832 9714568522	tiwaritrayambak7247@gmail.com varsanidilip735@gmail.com mehtavatsal884@gmail.com	Ideation Ideation Ideation Ideation
		Biotechnology	Atmiya University Atmiya University	7991781379 8238500832	tiwaritrayambak7247@gmail.com varsanidilip735@gmail.com	Ideation Ideation Ideation
3-6-2021 9:15:30	VATSAL MEHTA Dhruvi Patadia	Biotechnology Business and Commerce Biotechnology	Atmiya University Atmiya University Atmiya University Atmiya University Atmiya University of science and technology	7991781379 8238500832 9714568522 8849137278	tiwaritrayambak7247@gmail.com varsanidilip735@gmail.com mehtavatsal884@gmail.com dhruvipatadia3@gmail.com	Ideation Ideation Ideation Ideation Ideation Ideation
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List of Students

Atmiya University, Rajkot-Gujarat-India **Registrar**





NAAC – Cycle – 1 AISHE: U-0967				
Criterion 3 R I & E				
KI 3.7 M 3.7.1				

MEMORANDUM OF UNDERSTANDING

For

Mutual Capacity Building

Between



And



EPP Composites Pvt. Ltd.

Lodhika Industrial Estate, Kalawad Road, Metoda, GIDC,

Rajkot, (Gujarat), India





NAAC – Cycle – 1			
AISHE: U-0967			
Criterion 3 R I & E			
KI 3.7 M 3.7.1			

III. RENEWAL, REVIEW, TERMINATION AND AMENDMENT OF THE AGREEMENT

- 1. This MOU is signed by official representatives of both parties and each party will receive a copy of it.
- 2. It will be effective from the date of signature for an initial period of 3 years. Thereafter, it shall be automatically extended for an additional period of 3 years at each expiration date unless either party provides written notice to terminate the agreement a minimum of six months prior to the expiration date.
- 3. Both parties will be responsible for regularly reviewing the program(s) on a yearly basis.
- 4. Items not covered by the agreement may be raised and negotiated separately by both parties without abrogating this agreement. Amendments or changes shall be made in writing and signed by the duly authorized representatives of the parties.
- 5. In case of any misunderstandings, all issues to be discussed across the table and resolved amicably.
- 6. Jurisdiction of this agreement shall be Raikot.

This MoU shall come into effect upon the signature of authorised officials of AU and EPP Composite Private Limited.

President

Atmiya University

Rajkot, Gujarat, India

Date: 25.03, 2021

Mr. Sidharth Shah

Chairman

FISH

EPP Composite Private Limited

Rajkot, Gujarat, India

Date: 25.03.2021

Witnessed by:

Dr. Vishal Khasgiwala

Dean

Faculty of Business & Commerce Atmiya University, India

Witnessed by:

Mr. Devvrat Shah

Director

EPP Composite Private Limited Rajkot, (Gujarat), India



Page 4 of 4





NAAC – Cycle – 1		
AISHE: U-0967		
Criterion 3	RI&E	
KI 3.7	M 3.7.1	

3 Logistics Students joined for Apperenticeship and one Student got Appointment Letter from the EPP Securities Pvt. Ltd.







NAAC – Cycle – 1		
AISHE: U-0967		
Criterion 3	R I & E	
KI 3.7	M 3.7.1	

MEMORANDUM OF UNDERSTANDING

For

Capacity Building of Students

Between



Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

And



CH Learning Hub, E003, PINE Block, Raheja, Koramangala 3rd Block, Bangalore 560034

India





NAAC – Cycle – 1 AISHE: U-0967			
Criterion 3 R I & E			
KI 3.7	M 3 7 1		

5. AU will support in the online platform if required.

III: FINANCE:

Financing of the course/certificate to be carried out under the agreement will be sought as perAnnexure-3.

IV: COMMUNICATION

- Each party will designate an individual, who will be the Single Point of Contact (SPOC), to coordinate
 the activities and all endeavors under the scope of this MoU. The SPOC members are-
- 1. From AU: Mr. Pratik Pravin
- 2. From CHLH: Mr. Chetan K. Hemani
- Either party may change its designated liaison officer through written communication to the designated liaison officer of the other party.

IV: RENEWAL, REVIEW, TERMINATION, AND AMENDMENT OF THE AGREEMENT

- 1. This MoU is signed by official representatives of both parties and each party will receive a copy of it.
- It will be effective from the date of signature for a period of 3 years from officials of AU and CHLH. Thereafter, it can be extended based on mutual concern.
- 3. Both parties will be responsible for conducting a regular review.
- 4. Items not covered under the agreement may be raised and negotiated separately by both parties without abrogating this agreement. Amendment or changes shall be made in writing and signed by the duly authorized representatives of the parties.

5. In case of any misunderstanding, all issues are to be discussed across the table and resolved amicably.

Jurisdiction of this finance redressal shall be at Rajkot.

Dr. D.D. Vyas Dean Transformative – Academics

Atmiya University

Rajkot, Gujarat, India

Date:

Witnessed by: Dr. Vishal Khasgiwala

Dean

Faculty of Business & Commerce

Atmiya University, India

Cheuther seg Signatory

For CHLEARNING HUB

Founder

CH Learning Hub

Bangalore, Karnataka, India

Date:

Dr. K.V. Ramesh

Senior Associate- Strategies

CH Learning Hub

Banglore, Karnataka, India

Atmiya University, Rajkot-Gujarat-India Registrar





NAAC – Cycle – 1 AISHE: U-0967			
Criterion 3 R I & E			
KI 3.7	M 3.7.1		



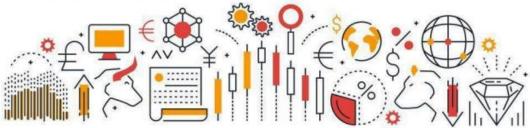
WEBINAR (for Students of MBA & IMBA)



Fundamentals of

ISTOCK MARKET

FUTURES & OPTIONS USING DATA ANALYTICS





RESOURCE PERSON CHETAN K. HEMANI MBA (JBIMS, Mumbai), ICWA, CA Founder of CH Learning Hub







NAAC – Cycle – 1 AISHE: U-0967

Criterion 3

RI&E

KI 3.7

M 3.7.1

राष्ट्रीय प्रतिभृति बाजार संस्थान

National Institute of Securities Markets

प्रमाणपत्र Certificate

Ni&M

श्री / सुश्री Mr. / Ms. SOJITRA JANAK DHIRAJLAL (पी.ए.एन. संख्या PAN Number : HIEPD3452A)

(पंजीकरण संख्या Registration Number : NISM-202300111295) (नामाकन क्रमांक Errolment Number : 2310292349) The state of the s

ने भारतीय प्रतिभूति और विनिमय बोर्ट (प्रतिभृति बाजारों में सहयुवत व्यक्तियों का प्रमाणीकरण) विनियम, 2007 के अधीन अपेक्षानुसार *रा.प्र.बा.सं.- मुंखला - Viii: इकिंदटी व्यत्यन्ती (इकिंदटी खेरिवेटिक) प्रमाणीकरण परीक्षा" सफलतापूर्वक पूर्ण कर ली है।

has successfully completed the "NISM-Series-VIII: Equity Derivatives Certification Examination" as required under the SEBI (Certification of Associated Persons in the Securities Markets) Regulations, 2007

परीक्षा तिथि	परीक्षा केन्द्र	भाषा	अंक	टिप्पणियाँ
Test Date	Test Centre	Language	Marks	Remarks
September 26, 2023 Rajkot - Shastri Maidan - NSEIT		English	70.5	PASS

तारीख Date : October 01, 2023

स्थान Place : Mumbai

काब तक मान्य Valid Till : September 25, 2026

सुनित कवम, रजिस्ट्रार Sunil Kadam, Registrar

For online verification of this NISM Certificate, please login to NISM Skills Registry at https://certifications.nism.ac.in/nismskills

राष्ट्रीय प्रतिभूति बाजार संस्थान

National Institute of Securities Markets

प्रमाणपत्र Certificate

Ni_{SM}

श्री / सुश्री Mr. / Ms. SOJITRA JANAK DHIRAJLAL (पी.ए.एन. संख्या PAN Number : HIEPD3452A)

(पंजीकरण संख्या Registration Number : NISM-202300111295)

(नामांकन क्रमांक Enrolment Number : 2310389763)



ने भारतीय प्रतिशृति और विनिगय बोर्ट (प्रतिगृति काजारों में सहयुक्त व्यक्तियों का प्रमाणीकरण) विनियम, 2007 के अधीन अपेक्षानुसार "रा.प्र.वा.सं.-शृंखला-V-ए : पाररगरिक निधि वितरक प्रमाणीकरण परीक्षा" सफलतापूर्वक पूर्ण कर ली हैं।

has successfully completed the "NISM-Series-V-A: Mutual Fund Distributors Certification Examination" as required under the SEBI (Certification of Associated Persons in the Securities Markets) Regulations, 2007

परीक्षा तिथि परीक्षा केव		भाषा	अंक	टिप्पणियाँ
Test Date Test Centre		Language	Marks	Remarks
January 05, 2024	Rajkot - Shastri Maidan - NSEiT	English	63	

सारीख Date : January 09, 2024

रमान Place : Mumbai

कब तक मान्य Valid Till : January 04, 2027

सनित कदम, रजिस्टार Sunil Kadam, Registrar

For online verification of this NISM Certificate, please login to NISM Skills Registry at https://certifications.nism.ac.in/nismskills





NAAC – Cycle – 1
AISHE: U-0967

RI&E

KI 3.7

M 3.7.1

राष्ट्रीय प्रतिभूति बाजार संस्थान

National Institute of Securities Markets

प्रमाणपत्र Certificate

Ni&M

श्री / सुश्री Mr. / Ms. HAYAN UMESHBHAI PATEL (पी.ए.एन. संख्या PAN Number : DZEPP7040F)

(पंजीकरण संख्या Registration Number : NISM-202300203847)

(नामांकन क्रमांक Enrolment Number : 2410001624)

ने भारतीय प्रतिभृति और विनिमय बोर्ड (प्रतिभृति बाजारों में सहयुक्त व्यक्तियों का प्रमाणीकरण) विनियम, 2007 के अधीन अपेक्षानुसार "रा.प्र.बा.सं.- शृंखला - VIII: इनिवटी व्युत्पन्नी (इकिवटी वेरिवेटिव्ज) प्रमाणीकरण परीक्षा" सफलतापूर्वक पूर्ण कर ली है।

has successfully completed the "NISM-Series-VIII: Equity Derivatives Certification Examination" as required under the SEBI (Certification of Associated Persons in the Securities Markets) Regulations, 2007

परीक्षा तिथि	परीक्षा केंद्र	भाषा	अंक	टिप्पणियाँ
Test Date	Test Centre	Language	Marks	Remarks
January 05, 2024	Rajkot - Shastri Maidan - NSEiT	English	61.25	

तारीख Date : January 08, 2024

स्थान Place : Mumbai

कब तक मान्य Valid Till: January 04, 2027

सुनित कदम, रजिस्ट्रार Sunii Kadam, Registrar

For online verification of this NISM Certificate, please login to NISM Skills Registry at https://certifications.nism.ac.in/nismskills

राष्ट्रीय प्रतिभूति बाजार संस्थान

National Institute of Securities Markets

प्रमाणपत्र Certificate

Ni&M

श्री / सुश्री Mr. / Ms. PARTH KISHORBHAI SAKARIYA (पी.ए.एन. संख्या PAN Number : MOWPS6842A)

(पंजीकरण संख्या Registration Number : NISM-202400000979) (नामांकन क्रमांक Enrolment Number : 2410066151)



ने भारतीय प्रतिभृति और विनिमय बोर्ड (प्रतिभृति बाजारों में सहयुक्त व्यक्तियों का प्रमाणीकरण) विनियम, 2007 के जमीन अपेक्षानुसार "रा.प्र.बा.सं.- मुंखला - VIII: इकियटी व्यूत्यन्मी (इकियटी केरिवेटिव्ज) प्रमाणीकरण परीक्षा" सफलतापूर्वक पूर्ण कर ली है ।

has successfully completed the "NISM-Series-VIII: Equity Derivatives Certification Examination" as required under the SEBI (Certification of Associated Persons in the Securities Markets) Regulations, 2007

परीक्षा तिथि	परीक्षा केंद्र	भाषा	হাক	टिप्पणियाँ
Test Date	Test Centre	Language	Marks	Remarks
March 12, 2024	Rajkot - Shastri Maidan - NSEIT		75.25	

तारीख Date : March 16, 2024

स्थान Place : Mumbai

कब तक मान्य Valid Till : March 11, 2027

सुनिल कदम, रजिस्ट्रार Sunil Kadam, Registrar

For online verification of this NISM Certificate, please login to NISM Skills Registry at https://certifications.nism.ac.in/nismskills

Atmiya University, Rajkot-Gujarat-India
Registrar
Atmiya University

Rajkot





NAAC – Cycle – 1		
AISHE: U-0967		
Criterion 3	R I & E	
KI 3.7	M 3.7.1	

ATMIYA UNIVERSITY

Security Market Foundation Certificate Examination

Seminar Registration Repot

Report Date: 04-09-2021

S. N	Docu ment Date	Name	Email	Mobi le	Pay men t Stat us	Payment Reference No
1	28-08- 2021	Pratham Tusharbhai Vyas	pratham.123vyas @gmail.com	83204 43387	Succe ss	SMFCE2808 20212478
2	01-09- 2021	Bansi Vinaykumar Ghaghda	bansighaghda@gm ail.com	90815 97398	Succe ss	SMFCE0109 20212480
3	02-09- 2021	Kuldip Narendrabhai Kalotra	Kuldipkalotra556@ gmail.com	90339 02121	Succe	SMFCE0209 20212484
4	02-09- 2021	Nandini Kailashchandra Shrivastav	nandinishrivastav7 8@gmail.com	74348 43077	Succe	SMFCE0209 20212486
5	03-09- 2021	JAINELI DIVYESHBHAI MEHTA	jainali2000@gmail. com	72268 18018	Succe	SMFCE0309 20212487
6	03-09- 2021	DHRUVIN VIMESHKUMAR MANEK	dmanek768@gmai I.com	96645 00198	Succe	SMFCE0309 20212488
7	03-09- 2021	Harshil Rajeshbhai Makadia	makadiaharshil66 @gmail.com	91910 68557	Succe	SMFCE0309 20212490
8	03-09- 2021	bhargav vipendra Dholariya	dholariyabhargav9 17@gmail.com	87330 66433	Succe	SMFCE0309 20212491

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Criterion 3	RI&E	
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9	04-09- 2021	Aayush Ketan Bhinde	aayushbhinde977 @gmail.com	79908 83385	Succe	SMFCE0409 20212495
1 0	04-09- 2021	yash Dineshbhai Gamara	yashgamara75@g mail.Com	63546 44437	Succe	SMFCE0409 20212499
1	04-09- 2021	Kishan Kamleshbhai Makwana	kishanmakwana46 4@gmail.com	99242 64519	Succe ss	SMFCE0409 20212502
1 2	04-09- 2021	Om Rajesh bhai Rajvadiya	omrajvadiya9@gm ail.com	89800 04076	Succe ss	SMFCE0409 20212505
1 3	04-09- 2021	VATSAL NARENDRABHAI PEDHADIYA	pedhadiyavatsal9 @gmail.com	79900 21534	Succe	SMFCE0409 20212506
1 4	04-09- 2021	Vivek Jayshukhbhai Vaghasiya	vivekvaghasiya842 @gmail.com	63559 39291	Succe	SMFCE0409 20212508

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NAAC –	Cycle – 1
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Criterion 3	R I & E

M 3.7.1



MEMORANDUM OF UNDERSTANDING Between

KI 3.7

ATMIYA UNIVERSITY Rajkot, Gujarat, India

and

K7 international (under the company - Kamania computer academy (P. ltd)), Rajkot

Whereas the above-named institutions recognize that a Memorandum of Understanding (MOU) would be of mutual benefit and would serve as an indication of continued interest in academic cooperation, it is understood that:

- 1. Each institution will promote one or more of the following activities based on their respective Academic and Industrial needs:
 - Skill development programs are conducted by K7 international (under the company - Kamania computer academy (P. ltd)) experts at Atmiya University.
 - Guest lectures are conducted by K7 international (under the company Kamania computer academy (P. ltd)) experts at Atmiya University.
 - · Courses offered by K7 international (under the company Kamania computer academy (P. ltd)) hub are attended by students of Atmiya University with special
- 2. Specific exchanges or activities that may be developed under the framework of this MOU shall be mutually discussed and agreed upon in writing by both parties prior to the initiation of that activity. Terms of cooperation and details of exchanges, joint programs or activities are to be developed through bilateral discussion and agreement on a case-by-case basis and attached as additions succeeding to the signing of this MOU. Each institution further agrees to appoint respective coordinators at the appropriate time for the specific activities agreed upon.
- 3. This MOU will become effective on the date of the last signature. It shall remain in force for a Period of five (5) year/s with the understanding that either institution may terminate it by giving 30 days' notice to the other party in writing, unless an earlier termination date is mutually agreed upon. The MOU may be amended or extended by mutual written consent of the Parties.

The parties hereby establish this MOU by duly signing it as of the respective date below.

Mr. Darshan lani

H.O.D

Department of B.Tech.-IT Atmiya University

Rajkot

DATE:14/2/2022

Head of Department Department of Information Technology Faculty of Engineering & Technology Atmiya University Raikot

SEAL:

Founder

DATE: 19/3/2021 Kamania Computer Academy (P.) Ltd.

K7 international (under the company -Kamania computer academy (P. ltd))Rajkot

Allemania Mr. Ajesh Kamania

Atmiya University, Rajkot-Gujarat-India **Registrar**





NAAC – Cycle – 1		
AISHE: U-0967		
Criterion 3	RI&E	
KI 3.7	M 3.7.1	

SUMMARY REPORT

Guidance session on "How to prepare for Abroad Study"

Organized by

Department Information Technology, FoET

Date - 08/02/2022

Patron – Param Pujya Tyagvallabh Swamiji, Secretary, Sarvoday Kelavani Samaj

Chief Convenor – Dr. G.D. Acharya Professor-Emeritus, Atmiya
University

Convener – Prof. Darshan Jani, HOD – IT, FoET

No. of Participants - 51





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Criterion 3	R I & E
KI 3.7	M 3.7.1





GUIDANCE SESSION ON "HOW TO PREPARE FOR ABROAD STUDY"

DATE:-

08/02/2022

TIME:-

10:00 AM ONWARDS

ORGANIZEDBY:-

DEPARTMENT OF INFORMATION TECHNOLOGY.

Atmiya University, Rajkot-Gujarat-India





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Glimpse of Event:-

With the blessings and vision of Param Pujya Tyagvallabh Swamiji, support and encouragement Principal Dr. G. D. Acharya and Head of Department Asst. Prof. Darshan Jani, we, at Atmiya University, Rajkot, had arranged GUIDANCE SESSION BY KAMANIYA GROUP ON HOW TO PREPARE FOR ABROAD STUDY".

Talk was delivered by Kunal Kamaniya, for 8th, 6th & 4th semester of the students. He has also guided. How to prepare for the abroad study, Which are the parameters & country based processes were discussed briefly.

Objectives:-

- 1. Demonstrate awareness of own cultural values and biases and how these impact their ability to work with others.
- 2. Demonstrate knowledge of diversity with a focus on the populationor topic of interest in the specific Study Abroad program.
- 3. Communicate appropriately and effectively with diverse individuals and groups.
- 4. Demonstrate an increased capacity to analyze issues with appreciation for disparate viewpoints.

Atmiya University, Rajkot-Gujarat-India Registrar
Atmiya University

Rajkot





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GLIMPESES OF THE EXPERT TALK













NAAC – Cycle – 1		
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Criterion 3	RI&E	
KI 3.7	M 3.7.1	

X	ATMIYA UNIVE	RSITY	eles, Norgan als (SWITE #1		
	Faculty of Engineering &	& Technology	,		
	Department - Infromation Tech				
	Guidance session on "How to prepare for Abroad Study" Attendance Sheet				
Semester-4th, 6th & 8th		Date:- 08-02-2022			
Sr.N	o. Student Name	Enrollment N	o Signature		
1	Cyril Thomas	210004001	Thorn		
2	Ahir Mihir Vəlji	210004002	Milia		
3	Bera Aashutosh Devanandbhai	210004004	1		
4	Bhanderi Prinsy Mukeshbhai	210004005			
5	Bopaliya Keval Nitinbhai	210004007			
- 6	Changani Diya Jitendra	210004008	Diga		
7	Changela Krishn Devendrabhai	210004009	10-		
8	Chauhan Devang Dharamshibhai	210004010			
9	Chauhan Shivamkumar Singh Balvantkum	210004011			
10	Chavada Pankajkumar Vajubhai	210004012	_		
11	Chavada Vinaybhai Dineshbhai	210004013	Vinay-		
12	Chavda Divyansh Prashantbhai	210004014	Virtag-		
13	Chintan D	210004015	101.1		
14	Damsiya Aniket Ratibhai	210004016	Chirtas		
15	Dave Tanvi Atulkumar	210004018	-		
16	Der Ravikumar Vasurbhai	210004019	100		
17	Desai Smit Hitendrabhai	210004020	Rand		
18	Dhankecha Krish Mukeshbhai	210004021	Struct		
19	Gadhiya Yashmit Ghanshyambhai	210004023			
20	Gajera Nehal Dilipbhai	210004023			
21	Gajera Nevil Kiritbhai	210004024			
22	Joshi Jay Vimlesh				
23	Karena Darshkumar Karshanbhai	210004028	Ing. J		
24	Kathur Karan Nalinbhai	210004032			
25	Kavathiya Khushali Shaileshbhai	210004033	Karan		
26		210004034	The state of		
27	Khanpara Aditi Bharatbhai	210004035	Aduhi.		
28	Makwana Sunil Rajeshbhai	210004037	Tack 1.		
1000	Malaviya Krineshkumar Pareshbhai	210004038			
29	Maru Mitulkumar Rupeshbhai	210004039			
30	Menpara Krishn Pradipbhai	210004040			
31	Murtaza Shabbir Tinwala	210004041			
32	Nariya Sunrut Jigneshbhai	210004041			
33	Om Prakash Sharma	210004042			

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34	Padisale Chimten Jaysuichthiai	250004045	
35	Pandya Krishna Wijaykumar	200004046	
36	Parmer Dhavalkumar Laljithal	2:0004047	
37	Patel Dhrunkumar Dipendrathial	250004048	
38	Patel Omkumar Dharmeshibhai	250004049	
39	Patel Shruti	230004050	Shoultier
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44	Rank Harshil Manishtithai	235004056	
45	Rethod Mohit Karabhai	250004057	
46	Sollya Bhaveshibhai Jayantibhai	210004060	
47	Tanna Utsav Dipaktihal	210004063	
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49	Vaghasiya Prit Ramniktihali	210004065	N- beig
50	Variya Divyesh Kanubhai	210004066	
51	Virani Mishri Shaileshbhai	210004067	
52	Viroja Darsh Rajnikant	210004068	
53	Zala Dihruviba Gajendrasinh	210004070	
54	Ambaliya Dixit Kishorbhal	221004001	Olatt
55	Bhatt Parth Amitbhai	221004002	
.56	Gajera Shruti Dineshibhai	221004003	
57	Hansaliya Tamankumar	221004004	
58	Korat Mohil Bhupatbhai	221004005	
59	Makadiya Nayana Kantibhai	221004006	
60	Marsoniya Parth Narendrabhai	221004007	Parthir
61	Pagada Harsh Alpeshbhai	221004008	
62	Suchak Aditya Prashantbhai	221004009	
63	Trivedi Yashvi Haridas	221004010	Hastmi
64	Ajwani Dhairya Rameshbhai	200004001	
65	Ashar Priyanshu Girishbhai	200004002	
66	Babariya Kishan Dineshbhai	200004003	
67	Barasiya Yagnik Kantibhai	200004004	
68	Bhimani Devam Dhirajlal	200004005	Naum 3
69	Chandarana Yash Prafulbhai	200004006	I Evacia
70	Chavda Diya Ravibhai	200004007	Diyac
71	Delvadiya Pragatiben Bhailalbhai	200004008	Digu
72	Dhorajiya Brijesh Ashokbhal	200004009	
73	Dudhatra Kishan Sureshbhai	200004010	
74		200004011	1-1-0
75	Ghadiya Tisha Jagdish	200004011	ttsha
76	Gupta Gaurav Dineshbhai		
77	Jetpariya Diksha Arvindbhai Kajaria Vishal Vinesh	200004013	Violat

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Rajkot





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Criterion 3	R I & E
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78	Kakadiya Ohruskumar Manaukhihlari	200004015	
70	Kanabar Devang Milinbhai	200004016	H. Despure,
80	Kaneriya Krunal Bharatbhai	700004017	
81	Khokhar Hitarth Sanjaybhai	20000A01#	
82	Khant Kalvi Alpeshkumar	200004019	
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11.5	Makadla Dhvaniben Pareshbhai	200004022	
0.0	Malasana Krutthen Kirithhal	200004023	
07	Merja Jaimin Kiritkumar	200004024	
BB	Nakum Vishal Devjibhal	200004025	Mishal
89	Padiya Parmi Sanjaybhal	200004026	
90	Pambhar Manvi Ajaybhai	200004027	Marrit - C
0.1	Patel Ayushkumar Sharadkumar	200004028	
63	Patel Hetkumar Sanjaybhai	200004029	
93	Patel Om Parimal	200004030	
9.4	Patel Preet Hareshbhai	200004031	
95	Patel Smit Hiteshkumar	200004032	Smit
96	Talsaniya Ishva Ashvinbhai	200004033	
67	Tank Kinjal Satish	200004034	Krasal.
98	Thaker Harsh Satishbhai	200004035	House
99	Umaradiya Nilima Ashvinbhal	200004036	
100	Vadaliya Khevna Jignesh	200004037	
101	Vadher Rumit Jayeshbhal	200004038	VaRumit
102	Vaghela Kishanbhai Kanjibhai	200004039	
103	Virani Prince Kantibhai	200004040	
104	Vora Yash Vallabhbhai	200004041	year
105	Bhogesara Paras Keshavbhai	211004001	
106	Pandya Gaurang Sanjaybhal	211004004	
107	Vekariya Arpit Jayantibhai	211004008	Aspit 1
108	Pithadiya Harshit Vipulbhai	212004001	
109	Dave Rudra Anilbhai	222004001	
110	Bhut Yash Jagdishbhai	190004003	Shop
111	Changela Om Pankajbhai	190004004	Ome
112	Devmurari Harshil Dipakbhai	190004007	T.A.L.
113	Dhakan Jayraj Ketan	190004008	
114	Gajera Renil Atulbhai	190004009	Don't /
115	Ghevariya Jaydeep Nareshbhai	190004012	Renil-6K
116	Jadeja Abhijitsinh Narendrasinh	190004013	-
117	Javia Hemangi Navnitbhai	190004014	
118	Patva Janvi Kamleshbhai	190004015	4 - 2 - 2
119	Kakadiya Dhruvkumar Rajeshbhai	190004016	Janui-1
120	Kothiya Divyesh Ashvinbhai	190004019	
121		A CONTRACTOR OF THE PARTY OF TH	
1.61	Kukadiya Arsh Shalleshbhai	190004020	K. Hos

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Atmiya University

Rajkot





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Criterion 3	RI&E	
KI 3.7	M 3.7.1	

122	Makasana Anand Bharat Bhai	190004021	Anend
123	Meena Pooja Ashokkumar	190004022	Prose
124	Moliya Meetkumar Vipulbhai	190004023	
125	Motvani Om Khemchandbhai	190004024	Mom
126	Mungalpara Harshkumar Lavjibhai	190004025	
127	Nimbark Smit Rajeshbhai	190004026	Namil
128	Pandya Chintan Hareshbhai	190004027	
129	Parmar Hitarth Devendra	7 190004028	
130	Patel Anand Rajeshbhai	190004029	
131	Patel Umangkumar Pravinbhai	190004030	Pelmeron
132	Pokal Jaypal Maheshbhai	190004031	
133	Sangani Jenish Jitendra	190004034	
134	Satasiya Dip Dineshbhai	190004035	Dia
-135	Shah Naitik Sanket	190004036	Neutre
136	Sojitra Darshika Manojbhai	190004037	
137	Sorathiya Mansi Bhagvanjibhai	190004039	mansis
138	Suhagiya Het Alpeshbhai	190004040	· C. Het
139	Sureja Deven Shaileshbhai	190004041	
140	Sutariya Kenilbhai Dhansukhbhai	190004042	
141	Umaretiya Sujen Rajeshbhai	190004044	V. syer
142	Vaghasiya Piyush Bhimjibhai	190004045	
143	Vaghasiya Vimarshkumar Kanjibhai	190004046	
144	Vansjariya Vishal Kishorbhai	190004047	Vishalv
145	Zala Yashrajsinh Harisinh	190004048	
146	Chauhan Dharmishthaben Naranbhai	201004001	
147	Hirpara Vrushank Alkeshbhai	201004002	
148	Kadevar Raj Chandubhai	201004003	K. Rasi
149	Khambholiya Teerth Kapilray	201004004	
150	Rathod Sahil Dineshbhai	201004005	Schile
151	Vaniya Mehuli Dilipbhai	201004006	Santage
	Facu	Head of De tment of Infor- lity of Engineer	partment mation Technol ring & Technol





NAAC – Cycle – 1	
AISHE: U-0967	
Criterion 3	R I & E
KI 3.7	M 3.7.1

MEMORANDUM OF UNDERSTANDING

Between



And



8B, Vandana Building, 11 Tolstoy Marg, New Delhi, Delhi 110001

Atmiya University, Rajkot-Gujarat-India **Registrar**





NAAC – Cycle – 1	
AISHE: U-0967	
Criterion 3	R I & E
KI 3.7	M 3.7.1

MEMORANDUM OF UNDERSTANDING

Between

Atmiya University, Rajkot, India

And

Nagrik Foundation, New Delhi, India

- A. Atmiya University (hereinafter referred as AU), having address at: Yogidham Gurukul, Kalawad Road, Rajkot-360005, Gujarat, India and Nagrik Foundation (hereinafter referred as NF), having address at: 8B, Vandana Building, 11 Tolstoy Marg, New Delhi, Delhi-110001, India, enter into this agreement on 6th Day of January 2022.
- B. Both AU and NF hereby agree upon the following terms and conditions for cooperation for:
 - Promotion of Sustainable Development Goals (SDG) related education and outreach programmes through different interventions.
 - ii. Facilitating participation of AU in SDG Choupal, a flagship initiative of NF.
 - iii. Joint promotion and coordination of South South 17: Education Alliance for Sustainable Development (SS17: EASD). Coordinating formation of EASD as a Trust in near future to take post-launch activities forward, as per agreed action agenda mutually agreed upon.
 - iv. Development and coordination of SDG Resource Centre at AU.
 - v. Organization of joint conferences, workshops, roundtables and other events.
 - Participation in joint research and consulting (including externally funded research calls).
 - Collaborating and supporting each other in the area of 'Development Journalism and Media'.
 - viii. Any other such interventions, which deem fit for promotion of SDGs.

Page 2 of 3





NAAC – Cycle – 1	
AISHE: U-0967	
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KI 3.7	M 3.7.1

C. General Terms

- This Agreement shall commence on the date when the representatives of both institutions affix their signatures and shall continue thereafter for five (5) years subject to revision or modification by mutual agreement.
- Either party may, by notice in writing of no less than one (01) month, terminate this Agreement.
- iii. For any specific activity under this MoU, AU and NFI will discuss and sign separate 'Terms of Agreement', which will be appended to this MoU from time to time.

Signed for and on behalf of Atmiya

University

Dr. Shiv K. Tripathi

Vice Chancellor

Date:

Witnessed by:

Dr. Divyang D. Vyas

Signed for and on behalf of Nagrik

Foundation

Mr. Deepak Dwivedi

Chairperson

Date:

Witnessed by:

Rtn Sandeep P. Saxena

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NAAC – Cycle – 1
AISHE: U-0967

Criterion 3

RI&E

KI 3.7

M 3.7.1

District Education Office. Karansinhji Highschool campus, Opp. City Guest House, Rajkot

Ref: 101-812022/26-30

Date: 06.05.2022

To whom it may concern

Recommendation Letter - SDG Initiatives at Atmiya University, Rajkot

It is my pleasure to write this Recommendation-Letter for Atmiya University, Rajkot. I know the Atmiya Group of Institutions as well as Atmiya University for more than last 5 years as District Education Officer of Raikot District. Being a partner in 'Rajkot SDG Aware City' project, I have closely been associated with the sustainability and SDG related efforts of Atmiya University.

I find Atmiya University leadership as well as SDG project team to be highly committed towards the cause of SDG education and dissemination through teaching, research and extension activities. The frequent questions and activity facilitation requests from the faculty members and staff members of the university displays their continuous engagement with the cause of making community SDG aware.

The university has been actively engaged in the SDG and Human Values through a number of courses they offer. I would like to specifically mention about the 'Rajkot SDG Aware City' project, which approaches the SDG related outreach in very innovative and holistic manner. Through orienting and training the students in SDG and Human Values, Atmiya University is creating a great foundation not only for the accomplishment of SDG 2030 but also beyond that.

The Atmiya approach to SDG integration in higher education is quite unique in terms of integration of teaching, research and outreach, irrespective of subject discipline and level of education. Further, the type of collective action created through Atmiya SDG initiatives is truly a model for effective and efficient mobilization of masses through educational activities.

I am quite impressed by the approach adopted by Atmiya University, as it does not force the students towards SDG action rather it educates them through courses; and the outreach projects help in translating the knowledge to action by involving community members and public. Based on the initial results and successful SDG awareness journey, I am confident that this model has the great scalability in terms of adaptation and implementation by other academic institutions and universities.

Being an important stakeholder in the education system of the Gujarat state, I support this initiative for larger sustainability impact through mass dissemination and education about SDG linked behaviour and action. I am confident that the UN SDG Action Award will be quite helpful in not only inspiring the thousands of hardworking boys and girls but also improve opportunity for cross-border knowledge transfer, particularly among institutions and universities.

I wish the Atmiya University SDG team all the best!

Thanking you.

Yours' sincerely.

Raikot

Mobile and Email: 9909970214 and rajkotdeo11@gmail.com

Atmiya University, Rajkot-Gujarat-India **Registrar**





NAAC – Cycle – 1	
AISHE: U-0967	
Criterion 3	RI&E
KI 3.7	M 3.7.1





CONCEPT-NOTE

Rajkot City SDG Awareness Project

04 January - 24 October, 2022







Initiated by

ATMIYA UNIVERSITY

Rajkot, Gujarat (INDIA)

in Strategic Partnership with

SDG CHOUPAL

(An Initiative by Nagarik Foundation)

www.atmiyauni.ac.in | ss17easd

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AISHE: U-0967	NAAC – Cycle – 1
	AISHE: U-0967

Criterion 3

RI&E

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1.0 Background/Introduction

Member countries of the United Nations launched Sustainable Development Goals (SDGs) in 2015 to set the unified direction of global development till 2030. The set of 17 SDGs i.e. 16 goals in different development areas + 1 goal (SDG17) focusing on innovation and cross-sectoral partnerships to support realization of remaining 16 goals, present a comprehensive system to plan and track development progress across in any country or regional context.

This is important to note that different countries, societies and organizations can plan and implement activities for SDGs as per the development priorities in their specific context. In India, the NITI Aayog is central nodal agency to coordinate the planning and implementation of SDGs. Different state Governments and other organizations are planning the activities in view of the specific development needs. However, based on the initial experiences in SDGs, it is quite clear that direct or indirect participation of all the stakeholders, including citizens, are essential for meaningful efforts to realize SDGs.

Higher education is an important area for not only contributing through education for SDGs but also as a catalyst to trigger collective action movement for SDGs involving all the stakeholders. In view of the SDG 17.16, which focuses on innovative multistakeholder partnerships, ATMIYA University, jointly in association with SDG Choupal (an initiative of Nagrik Foundation, launched at NITI Aayog), has planned to implement 'Rajkot – SDG Aware City' project through involvement of all the stakeholders in Rajkot. As there is no such reported initiative so far globally, this is first of its' kind project in the world.

We request all the citizens of historical city of Rajkot to participate and support this noble cause for smooth and resource-effective implementation of SDGs in the city. Also, this would present a global partnership model for universities and communities for collaborative development action.

2.0 Why this project?

- Helps in creating awareness among masses about the desired action and behaviour for sustainable planet.
- Optimizes resources in training and capacity building through stakeholder involvement.
- Creates a model of collective action for responsible citizen-focused sustainable development.
- · Will be a model for university-community partnership for larger good

Page | 01

Atmiya University, Rajkot-Gujarat-India





NAAC –	Cycle – 1
AISHE:	U-0967
Criterion 3	RI&E

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3.0 Focus Areas

- Awareness about sustainability and its' understanding in local context.
- Orientation towards sustainable development linked behaviour at different levels from individual households to business, industries, NGOs, Government Departments, Schools and Media.
- Capacity building activities for organizations.
- Outreach and extension programmes.
- · Research assistance in local need assessment for development.

4.0 Project Duration

Phase 1: 04 January to 24 October 2024 (Report release on United Nations Day 24th October 2022)

5.0 Proposed Activities (indicative but not limited to)

- 1) Orientation and Training Program (through internal and external resource persons)
 - · School, College and University Teachers and other staff
 - Personnel from Government and Private Sectors
 - Members from NGO
- Public Awareness Programs (primarily through students & NGOs)
 - Door-to-door/Shop-to-shop/Office-to-office campaign
 - Campaigns at ward offices, public parks and other such public places
 - Campaigns through participation in various exhibitions, trade fair and other such programs
- 3) General awareness initiatives
 - Hoardings and displays at prime locations, public parks, public transport vehicles, public transport stations, public offices, etc
 - Radio Channels
 - During festivals
 - Social messages for screening in cinema halls
- 4) Creating interactive digital platform for sharing views, best practices, initiatives, etc related to this project and recognizing / awarding individuals for their initiatives/contributions

4.0 Impact, Monitoring and Assessment

- Each programme/activity in the project will integrate monitoring and evaluation (M&E) component for objective impact assessment.
- Activities/ Programme progress to be shared digitally as well as through printed material.

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 Summarized result of all programmes/activities to be released in the form of Consolidated Report.

5.0 Project Partners

- Project Promoters
 - Atmiya University, Rajkot
 - SDG Choupal, Nagrik Foundation, New Delhi
- Supporting Partner (to be included/decided based on voluntary commitment
 - o Rajkot Municipal Corporation
 - Department of Education, Rajkot
 - Industries and Corporate Houses in Rajkot
 - Local Industry Associations
 - o Local Professional Associations
 - Religious institutions/ charity organizations
 - o Schools and Colleges
 - Government Departments and Agencies
 - EASD (Education Alliance for Sustainable Development) Members
 - SDG Choupal Members
 - o Development Agencies (National/Regional/International)
 - o NGOs
 - o Community based organizations
 - o Other organizations/association (not in categories above)

6.0 Contact

The Coordinator

Rajkot SDG Aware City Project

Atmiya University,

Rajkot-360005 Gujarat

Email: ss17easd@atmiyauni.ac.in

The Convenor

SDG Choupal

8-B, Vandana Building, Tolstoy Marg,

New Delhi - 110001

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MEMORANDUM OF UNDERSTANDING (Strategic Partnership)

This Memorandum of Understanding is entered on 5th January 2022 at Science City, Ahmedabad during Vibrant Gujarat Summit 2022.

between

Consortia of Global Institutions led by Atmiya University and SDG Choupal

and

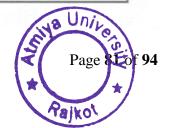
Government of Gujarat

Consortia of Global Institutions led by Atmiya University and SDG Choupal wishes to forge Strategic Partnership for SDG related global knowledge exchange and action interventions among partner institutions in global south, focusing on SDG.

Government of Gujarat would facilitate Consortia of Global Institutions led by Atmiya University and SDG Choupal to obtain necessary permissions / registrations / approvals /clearances etc. from the concerned departments of the State, as per the existing policies / rules and regulations of the State Government.

For and on behalf of Government of Gujarat	For and on behalf of Consortia of Global Institutions led by Atmiya University and SDG Choupal
Signature	Signature
Name: Dr Vimal V. Prajapati	Name: Dr. Shiv K. Tripathi
Designation: Joint Director (Academic)	Designation: Vice Chancellor
Contact no.:079-23253538	Contact no.: 7572970002
Email: jd-academic-dte@gujarat.gov.in	Email: vc@atmiyauni.ac.in
Contact address: Block No.2, 6 th Floor, Karmyogi Bhavan, Sector-10 A, Gandhinagar, 382010	Contact address: Yogidham, Kalawad Road, Rajkot
Department: Directorate of Technical Education	Department: Atmiya University, Rajkot

Atmiya University, Rajkot-Gujarat-India **Registrar**





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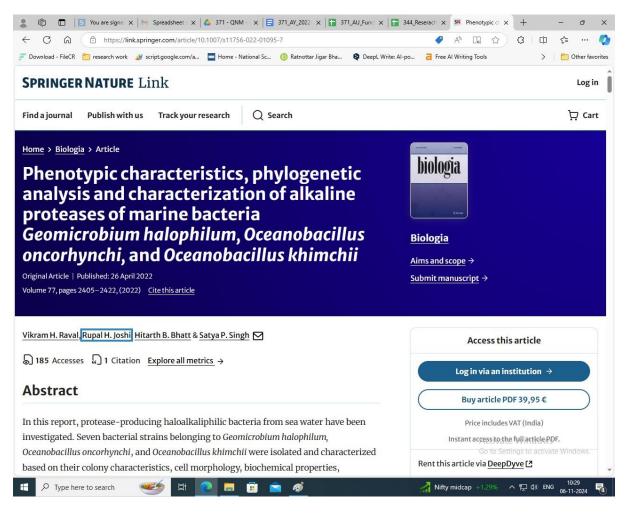








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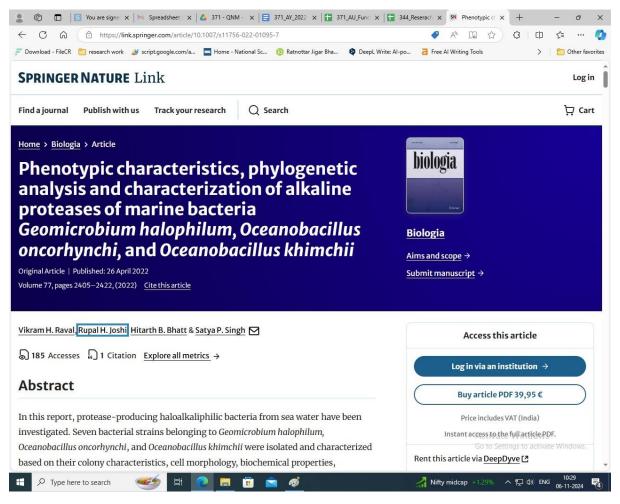


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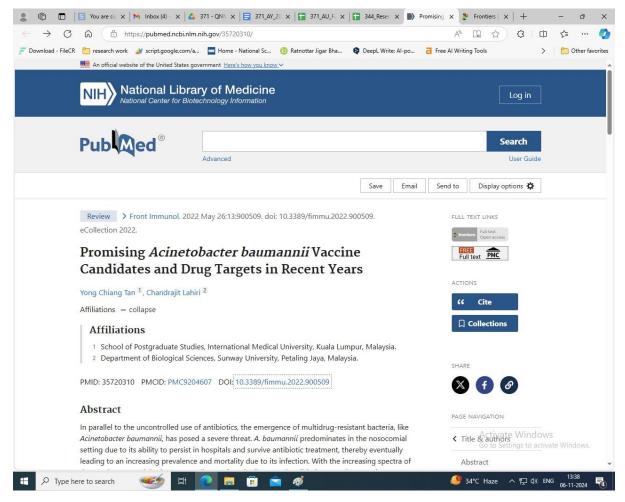


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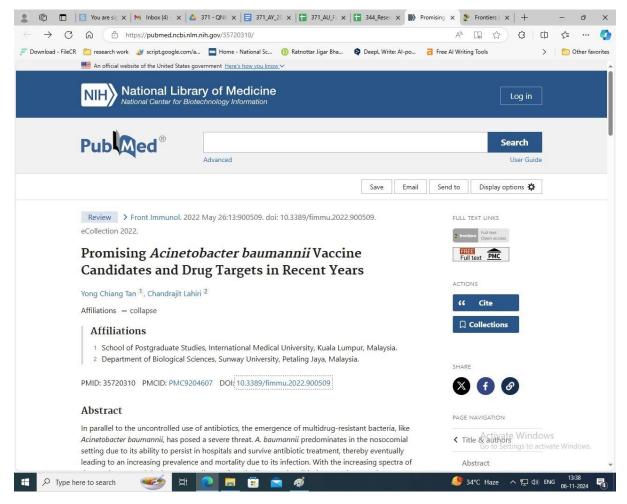


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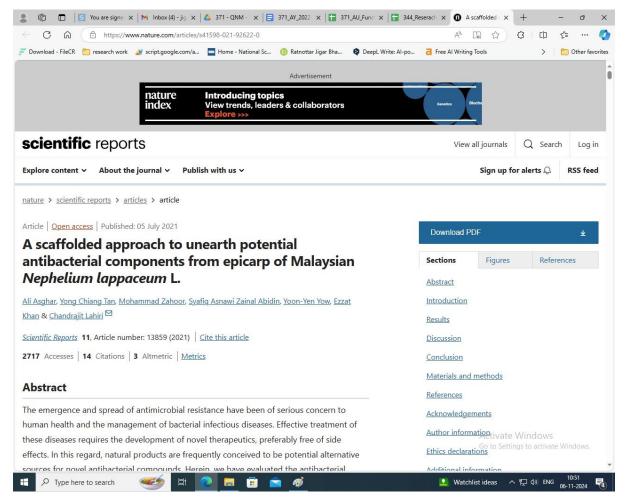


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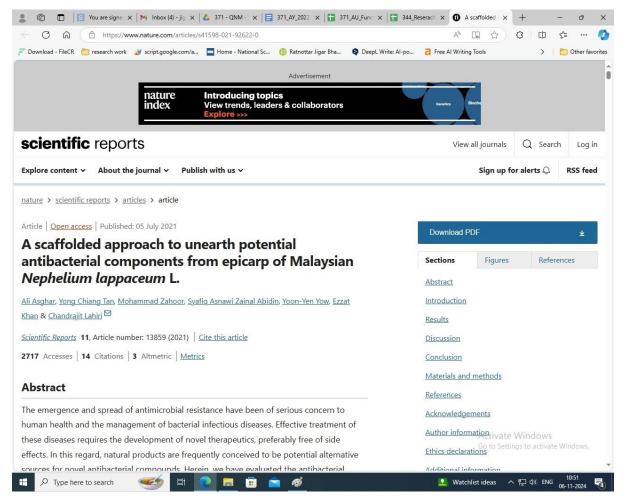


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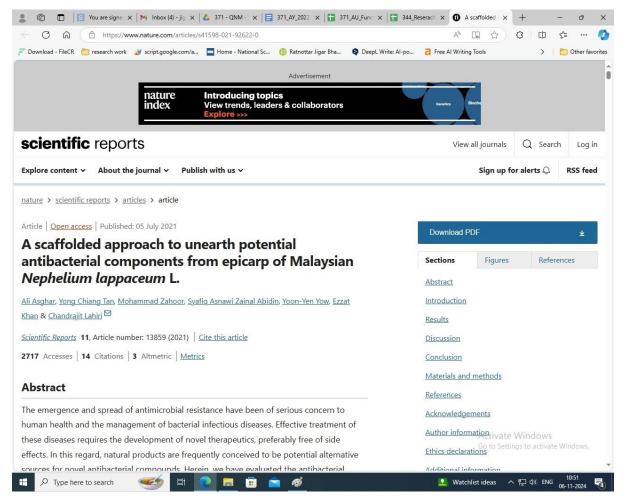


Joint Publication with Monash University Malaysia 05-07-2021





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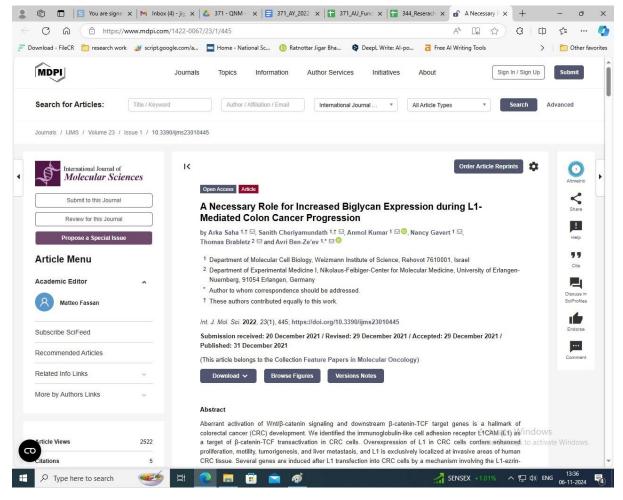


Joint Publication with University of Malakand, Pakistan 05-07-2021





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Joint Publication with Weizmann Institute of Science, Israel 31-12-2021

