



NIZAM COLLEGE
Autonomous
Re-accredited by NAAC with B++
A Constituent College of Osmania University



BEST PRACTICES

Practice 1:

- 1. Title:** Interface between Academia and Research Institutes through Projects, Internships etc.
- 2. Objective of the Practice:** To promote a spirit of research through hands on experience.
- 3. Context:** Need to encourage faculty and prepare students for applied research and entrepreneurship.
- 4. The Practice:** The primary intention is to prepare students empower students in manifold ways. Faculty and students are encouraged in critical thinking, applied research, problem solving skills and entrepreneurship. Some Departments collaborate with each other and also have MoUs with industries, academic bodies and other recognized institutes for research and development. Most Departments arrange for interaction, exposure to experts so that their domain knowledge is strengthened and skills are developed. A few examples:
 - Department of English students attend the Hyderabad Literary Festival
 - Department of Chemistry take their students to CSIR.
 - Students from the Department of Botany and Zoology go on field visits.
 - Students of the Microbiology Department are encouraged to do research and develop patents.
 - Students from the Department of Commerce and Business Management are encouraged to go for internships and entrepreneurship.

5. Evidence of Success:

a) Department of Microbiology: Patents developed and granted

The students of Microbiology under the guidance of Dr. Chand Pasha carried out projects and obtained five patents. (i) Toothpaste Composition with Improved Oral Health (ii) Tooth Sensitivity Alleviating Preparations (iii) Bee Free and Microbial Honey and its derivatives (iv) Cordyceps Militaris Production and Energy Enhancer (v) Microbiological Media Solidifying Agent and Uses, and after presenting these at various seminars, patents are filed and published. The pride of the moment was when this patent was selected for **Telangana Innovation Yatra** after undergoing through **TS Hackathon**.

b) Department of Chemistry: Dr. Sarita Rajendar has two patents granted to her credit.

c) **Department of MBA:** IOB has conducted an incognito survey throughout its city branches wherein the MBA students were chosen and paid stipend. IOB offered internships to our students.



पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 43/2023	शुक्रवार	दिनांक: 27/10/2023
ISSUE NO. 43/2023	FRIDAY	DATE: 27/10/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 43/2023 Dated 27/10/2023

74253

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/10/2023

(21) Application No.202341067564 A
(43) Publication Date : 27/10/2023

(54) Title of the invention : ANTI FUNGAL, ANTI BACTERIAL AND COSMETIC COMPOSITION, PREPARATION AND APPLICATIONS

(51) International classification :A61Q0019000000, A61K0009000000, A61K0008670000, A61Q0019020000, A61P0031100000
(86) International Application No :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
(62) Divisional to Application Number :NA

(71)Name of Applicant :
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Name of Applicant : NA
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(72)Name of Inventor :
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8)Dr. Anju Nitin Rajan
Address of Applicant :Department of Microbiology, Nizam college, Basheer Bagh, Hyderabad, Telangana, phone:9908191186

(57) Abstract :
ABSTRACT: An antifungal, antibacterial, and cosmetic composition, effective at 50-99% by weight of salicylic acid or a derivative thereof, plant extract-coated copper oxide, zinc oxide, and silver nanoparticles, having a skin pH of 5.5, creamy without a solvent, or propylene glycol as a solvent, is provided for topical application. This composition is highly effective in treating fungal and bacterial infections and removing scars, warts, and pimples from the skin. It is capable of being stored without refrigeration for long periods of time without losing therapeutic effectiveness and while maintaining the uniformity and stability of the gel.

No. of Pages : 18 No. of Claims : 10

The Patent Office Journal No. 43/2023 Dated 27/10/2023

74482

पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
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THE PATENT OFFICE

निर्गमन सं. 46/2023	शुक्रवार	दिनांक: 17/11/2023
ISSUE NO. 46/2023	FRIDAY	DATE: 17/11/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 46/2023 Dated 17/11/2023

77252

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202341076258 A
(43) Publication Date : 17/11/2023

(54) Title of the invention : ENGINEERED ANTIMICROBIAL PEPTIDES WITH IMPROVED ACTIVITIES

(51) International classification :A61P0031040000, A61P0031120000, A61P0031100000, A61K0038000000, A61P0033000000
(86) International Application No :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
(62) Divisional to Application Number :NA

(71)Name of Applicant :
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Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MICROBIOLOGY, NIZAM COLLEGE, BASHEER BAGH, HYDERABAD, TELANGANA, INDIA-500001
2)Dr. Kamala Golla
Address of Applicant : Department of Biochemistry & Nutrition Bhavan's Vivekananda College, Sainikpuri, Secunderabad
(72)Name of Inventor :
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3)Mr. Shaik Muzammil Pasha
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(57) Abstract :
Title Engineered Antimicrobial peptides with improved activities ABSTRACT. Disclosed engineered antimicrobial peptides and their corresponding DNA sequences, in-silico developed, produced recombinant DNA technology and tested for improved antimicrobial activity without angiogenesis activities. Thereof for the treatment or prevention of microbial, bacterial, fungal, viral and parasitic infections disclosed.

No. of Pages : 20 No. of Claims : 10

The Patent Office Journal No. 46/2023 Dated 17/11/2023

77341



MBA students were also part of an Entrepreneurship Development Program in collaboration with ni- msme. After a 15 days training program on how to start a business, students came up with a business plan for start-ups like:

- Plan 1: Soya Milk and Tofu Manufacturing Business plan
- Plan 2: Edible Cutlery Business Plan
- Plan 3: Ammamma Gari Pachadlu Business plan
- Plan 4: Miss India Business Plan
- Plan 5: Solar Panels Plan
- Plan 6: SUV bakers Plan



NIZAM COLLEGE
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**DEPARTMENT OF BUSINESS MANAGEMENT
AND DEPARTMENT OF COMMERCE**
Organising Workshop in Collaboration with ni-MSME
**FREE CAPACITY BUILDING PROGRAM
FOR SC/ST YOUTH**

(SPONSORED BY MINISTRY OF MSME, GOVT. OF INDIA
UNDER NATIONAL SC / ST HUB SCHEME)
Date: 21st April, 2022 Time: 10.00am
Venue: Auditorium, Centenary Block, Nizam College.

PROGRAM CO-ORDINATORS
DR.E.VIJAYA DR.A.MANJULA A.ASWINI
FACULTY MEMBER ni-MSME, HYD DEPARTMENT OF COMMERCE DEPARTMENT OF BUSINESS MANAGEMENT

PROGRAM CONVENER
DR. B. THIRUPATHI
HEAD, DEPARTMENT OF BUSINESS MANAGEMENT

Dr.C.V.Ranjani Prof. B.Narayana
VICE-PRINCIPAL PRINCIPAL

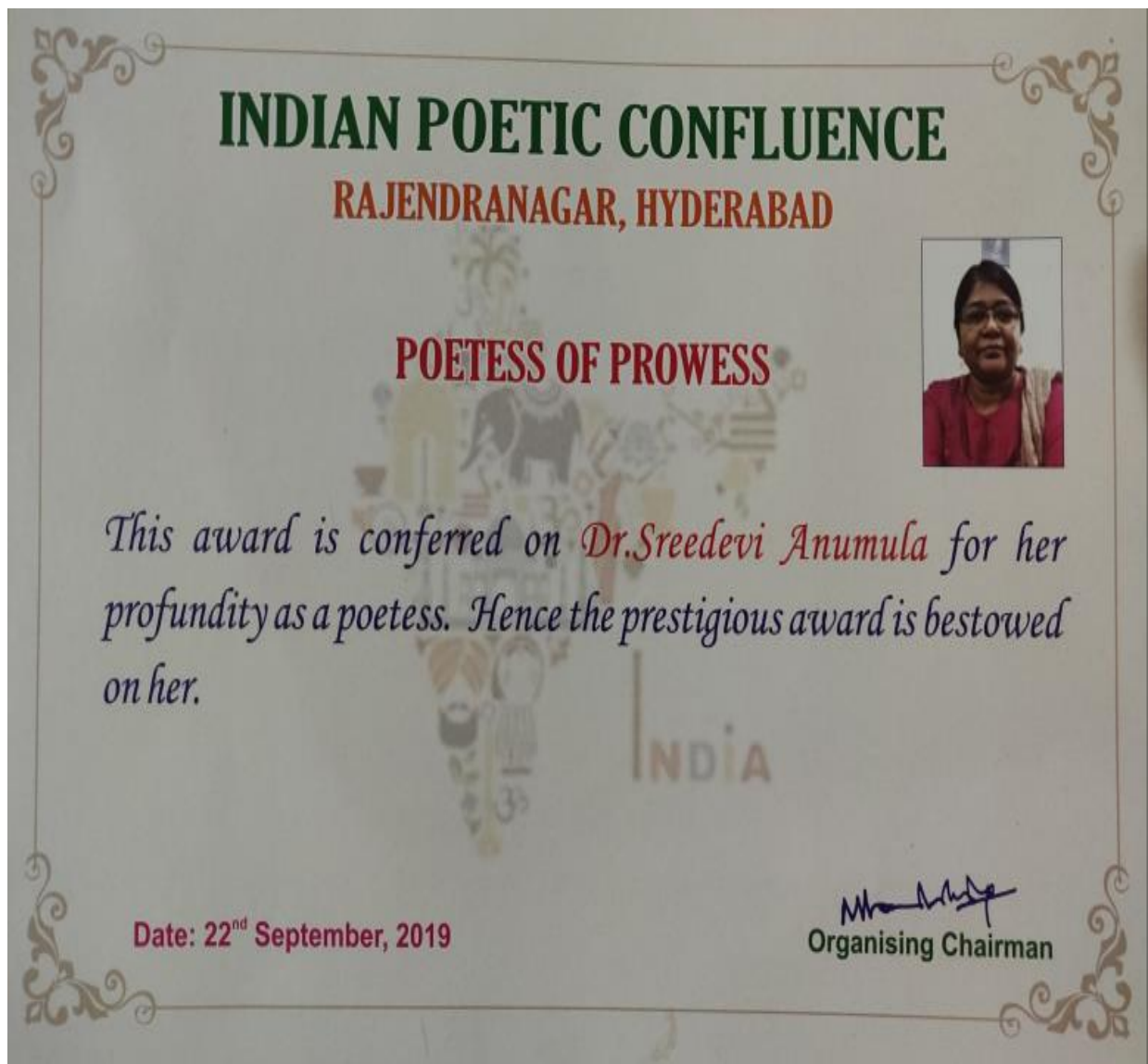
Advisory committee : All Business Management and Commerce Faculty

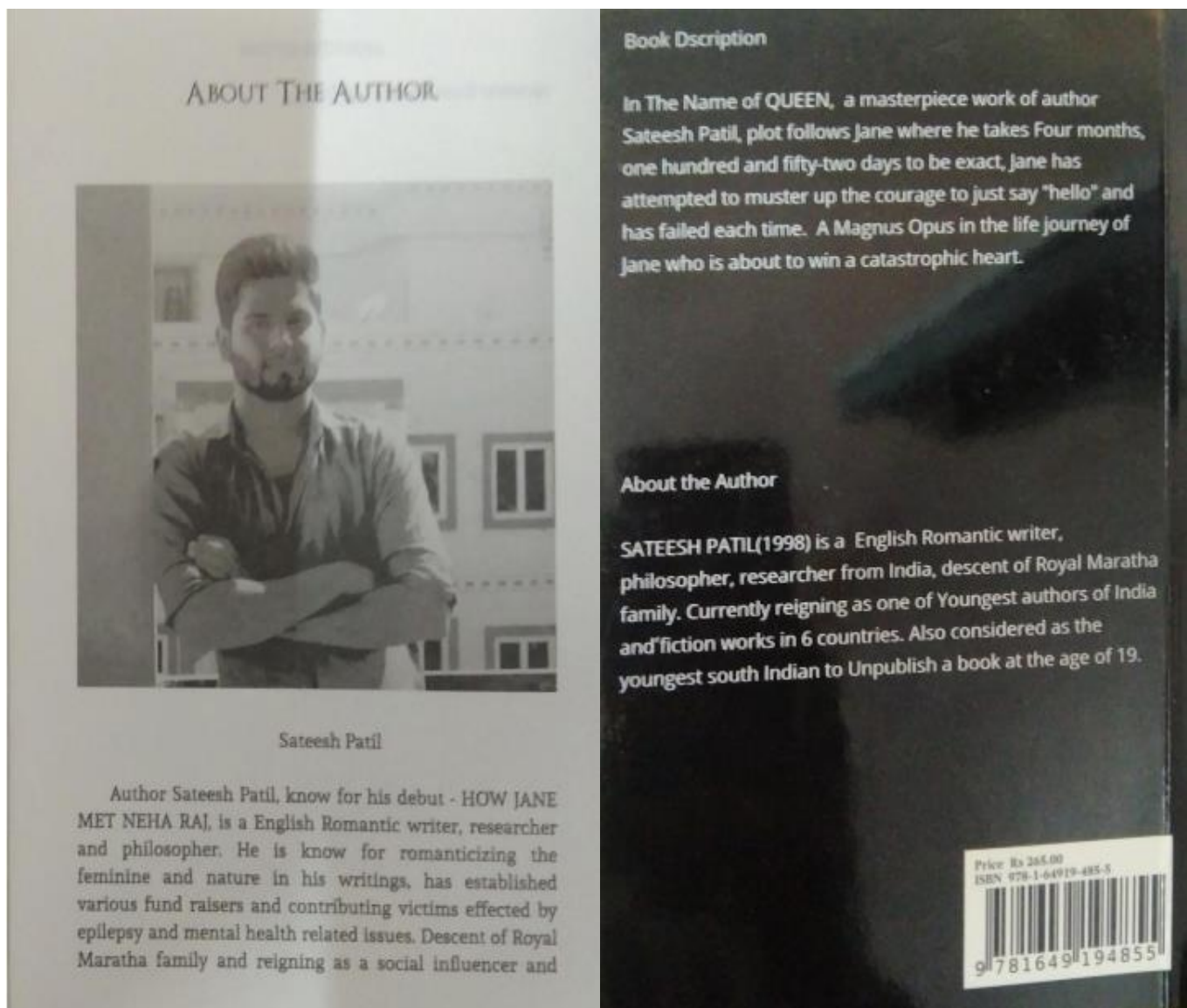
National Institute for Micro, Small and Medium Enterprises (ni-msme)
(An Organisation of the Ministry of MSME, Govt. of India)
(An ISO 9001:2015 Certified Organisation)

d) Department of English: The Department of English exposes students to creative writing with visits to Hyderabad Literary Festival every year as well as lectures and an International Webinar on Creative Writing can boast of two student writers in the recent past.

Faculty Dr. A Sreedevi has established herself as a poet and was awarded the 'Poet of the Prowess'. Sania Zafar a student published her debut novel *Addressed to Heaven*.

Satish Patel a **student** published two novels and his novel, *In The Name of Queen* and was even felicitated with an international award from Yatha Katha





e) E Content

- **Department of Commerce:** B. Com. E-Commerce students final year as part of their required final year projects developed and produced E-content that were uploaded on Youtube on topics such as Tally, Financial accounting, Facebook Security, Excel spreadsheets etc.

https://nizamcollege.ac.in/NC/studentproject_internship_fieldproject.pdf

- **Department of Microbiology:** Microbiology students also have a Youtube Channel on which they regularly upload lectures and experiments, practical demonstrations.
<https://youtube.com/channel/UCQpaPsKsne3f2i8zvxpkkfw>
- **Department of Sociology:** Dr. Vinita Pandey has prepared Module for MOOCs-Swayam on Urban Sociology and Urban Development.

**EDUCATIONAL MULTIMEDIA RESEARCH CENTRE
OSMANIA UNIVERSITY, HYDERABAD.**
Phone: 29558769

TO WHOMSOEVER IT MAY CONCERN

Date: 14-09-2023

Place: Hyderabad

Ref: EMRC/OU/2023/910

This is to certify that Dr. P. Malathi, Dept. of Sociology, Nizam College, Osmania University, worked as subject expert for (16) Lessons in Agrarian Sociology subject for **(Swayam- Massive Open Online Courses (MOOCs))**.

She is affable, suave nature has gone well with our production team at the Centre. She would readily coordinate with other subject experts and always come up with suggestions for improvement wherever necessary. In particular, producers were extremely happy to have her record her lessons at the Studio.


P. RAGHUPATHI
DIRECTOR

To
Dr. P. Malathi,
Department of Sociology,
Nizam College,
Osmania University, Hyderabad.

EDUCATIONAL MULTIMEDIA RESEARCH CENTRE
Osmania University, Hyderabad.

No.EMRC/OU/RUSA2.0/2020

Dt: 16-11-2020

Dr.Vinita Pandey,
Assistant Professor,
Department of Sociology,
Nizam College, Basheer Bagh,
Hyderabad.

Sub: EMRC, Osmania University – RUSA2.0 – CCE – MOOCs Project Payment of
Remuneration to the resource person – Cheque enclosed – Request - Reg

Dear Madam,

Seasonal Greetings from EMRC, OU.

EMRC, Osmania University, would place it on record your active support and involvement in making the Educational Video Programmes for the Intermediate students in the Telangana State under MOOCs project (RUSA 2.0). Your pedagogic contribution will go a long way in enriching the students in their respective subjects.

We look forward for your continued support and academic contributions in all our future endeavors.

Please find the enclosed cheque towards your contribution for the RUSA – CCE project. The payment of remuneration vide Cheque number 162009, dt: 16-11-2020, for an amount of Rs. 12,000/-

With warm regards,

Dr.K.NARENDAR
DIRECTOR

f) Field Visits:

Students from many departments such as Chemistry, Botany, Zoology, Psychology and Sociology go for field visits for a practical exposure.



6. Problems Encountered and Resources Required:

- a) A number of students who join the College are not from the affluent sections. Hence, they find it necessary to get into a job as soon as possible or they go into long term preparation for government jobs.
- b) Some students who prefer to join MNC's have not shown interest for attending training programs or workshops on start-ups and business.
- c) Students who chose to flourish as writers find financial success important and hence cannot pursue writing as a career.
- d) Nizam College under Osmania University has many financial issues with the Centre and State government not granting enough towards education sector, recruitment of regular faculty.