From

Dr. Nivedita Lalitha Raveendran Chengalath Chirakkal Post Kannur – 670011 Kerala 17/10/2021

То

The Visa Officer The Israel Visa Application Centre S-519, 5th floor, South Block Manipal Centre 47, Dickenson road, Bengaluru – 560042

Sir / Madam,

Sub: Requisition for A2 visa – reg.

I, Nivedita Lalitha Raveendran holding passport number Z5936242, will be joining Technion – Israel Institute of Technology as a postdoctoral researcher. I would like to apply for the A2 visa so that I can join Technion to take up the postdoctoral fellowship which is for a year (September 30, 2022).

Please find the visa application form duly filled and signed along with the valid passport, photographs and the relevant documents for your perusal.

Kindly consider the application and grant necessary visa. Please do let me know if any other information is required.

Yours sincerely,

Nindita

(Nivedita L. Raveendran)



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PIN: 670011, KERALA, INDIA

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भारत गणराज्य REPUBLIC OF INDIA



इसके द्वारा, भारत गणराज्य के राष्ट्रपति के नाम पर, उन लभी से जिनका इससे संध्य हो, अनुरोध एवं अपेक्षा की जाती है कि वे धारक को बिना किसी रोक-टोक के स्वतंत्र रुप से आने- जाने दें, और उसे प्रर तरह की ऐसी सहायता और सुरक्षा प्रदान करें जिसकी उसे आवश्यकता हो। THESE ARE TO REQUEST AND REQUIRE IN THE NAME OF THE PRESIDENT OF THE REPUBLIC OF INDIA ALL THOSE WHOM IT MAY CONCERN TO ALLOW THE BEARER TO PASS FREELY WITHOUT LET OR HINDRANCE AND TO AFRORD HIM OR HER, EVERY ASSISTANCE AND PROTECTION OF WHICH HE OR SHE MAY STAND DY NEED.

भारत पणराज्य के राष्ट्रपति के आदेश से

BY ORDER OF THE PRESIDENT OF THE REPUBLIC OF INDIA



TUP STORE

विदेश्मों में रहने खाले भागतीय जागरिकों को सलात दी जाती है कि के विधादत्तम भागतीय मिलन/ केन्द्र में अपना वंशीकरण करवाएं।

भोरताय-भी

यह पासफोर्ट आगत मरकार की सम्मणि है । इस पासपोर्ट के कारे में किसी पासपोर्ट आधिकारी में इसके वारक को चरि कोई मुचना विकती है जिसके वासपोर्ट सौटाने की योग भी शाधित है सी असमान तुरंत आनुपालन किया आए ।

यन पासपोर्ट डाक द्वारा किसी भी देश में बाहर न मेंबा जाए। यह पासपोर्ट धारक या उसके द्वारा प्राधिकृत व्यक्ति के करनों में ही गोना बाहिए । इसमें किसी भी प्रकार का फेरवदल या जिक्ति नहीं की जानी चाहिए।

पासपोर्ट मुम हो जाने, कोरी हो खाने अधवा नष्ट हो जाने पर उसकी जुमना भारत में सवसे निकटतम पासपोर्ट आंधवानी को अधवा पदि पासपोर्ट पारण विदेश में है को विकटतम धारतीय मिलन/केन्द्र और स्थानीय पुस्तित को साख्यल की जानी थाहिए । जिस्तून पुछताछ के बाद हो इप्सीचेट सामयोहें जारी किया जाएगा ।

REGISTRATION

INDIAN CITIZENS RESIDENT APROAD ARE ADVISED TO REGISTER THEMSELVES AT THE NEAREST INDIAN MISSION/POST.

CAUTION

THIS PASSPORT IS THE PROFERTY OF THE GOVERNMENT OF INDIA. ANY COMMUNICATION RECEIVED BY THE HOLDER FROM & PASSPORT AUTHORITY REGARDING THIS PASSPORT, INCLUDING DEMAND FOR ITS SURRENDER, SHOULD BE COMPLIED WITH IMMEDIATELY.

THIS PASSPORT SHOULD NOT BE SENT OUT OF ANY COUNTRY BY. POST THIS SHOULD BE IN THE CUSTODY EITHER OF THE HOLDER. OS OF A PERSON AUTHORISED BY THE ROLDER. IT MUST NOT BE ALTERED OF MUTILATED IN ANY WAY.

LOUS, THEFT OR DESTRUCTION OF THIS PASSPORT-SHOULD BE DEMEDIATELY SEPORTED TO THE NEAREST PASSPORT AUTHORITY. IN INDIA OF IF THE HOLDER IN ADROAD, TO THE MEANERT INDIAN MISSION POST AND TO THE EDUCAL POLICE. ONLY APTER EXHAUSING ENQUIRIES SHALL A DEFLICATE PASSPORT DE DESUED.

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September 9, 2021

Dr. Nivedita L. Raveendran Department of Materials Science and Engineering Technion, I.I.T Haifa

Dear Dr. Raveendran.

It is a pleasure to inform you that you were awarded a Postdoctoral Fellowship in Technion's Department of Materials Science and Engineering for a period of 12 months starting October 1, 2021.

In the framework of this Fellowship you will receive a monthly stipend of 7,500NIS for the duration of your stay at the Technion. In addition, you will get one direct flight airfare, economy class or similar, from your hometown to Israel and back (you will be reimbursed for the ticket up to US\$600, against receipt or copy of the ticket).

Please note that you should have health insurance for the duration of your stay at the Technion (and if applicable, so should your companions). You can either pre-arrange such insurance or, if you prefer, we could refer you to a local insurance agent upon your arrival at the Technion.

The invitation is subject to the Technion by-laws, regulations and procedures. Particularly, absence and travel abroad require approval of the Technion authorities. Information about your assignments, duties, responsibilities and other details will be conveyed to you by the Chairman of the Department and by your host.

I would appreciate your response to this invitation by returning to your hosting department a signed copy of this letter stating your agreement with its terms.

Congratulations and best wishes for a productive and pleasant stay at the Technion.

Sincerely yours,

Shimon Masom

Professor Shimon Marom. Executive Vice President for Academic Affairs

Attached: Regulations for Post-Doctorate Fellows

I hereby accept this invitation and its terms.

Signature: _____

09/09/2021 Date :

העתקים: פרופ' יאיר עין-אלי – דיקן הפקולטה למדע והנדסה של חומרים ד"ר יונתן קלהורה – הפקולטה למדע והנדסה של חומרים גב' מיכל כפתורי – אכו"ב עו"ד ורדית רז-טולדנו – הממונה על לשכת הסגל האקדמי שמ/אק

Tel: +972-4-8292594 . 70 Fax: +972-4-8292424:070 Email: manla@tx.technion.ac.il :לא"ל: Email: manla@tx.technion.ac.il

Technion City, Haifa 3200003, Israel קרית הטכניון, חיפה 3200003 www.technion.ac.il

Nivedita L. Raveendran

רשות האוכלוסין וההנירה Population & Immigration Authority שומה וושוצון, פווגובנס

מינהל האוכלוסין - אגף אוכלוסיות זמניות Temporary population department



מדינת ישראל State of Israet

כיין באב זשייפ

17 08/2020

2020-0011652 1000-0202

לכבוד ראש מוסד הלימוד הטכניון שלום רב,

אוניברסיטאוה

הנדון : אישור כניסת תלמידים לשנת הלימודים הקרובה

- נציג משרד הבריאות אישר כי מוסד הלימודים שאתה מייצג, הטכניון, עומד כתנאי הנ ידוד.
- 2 ניתן להמות את התלמידים לנציגות ישראל בואייל לצורך הנשת בקשה בהתאם לנוהל, כנוסף למסטכים שבתנאים ובדרישות של הנוהל יידרש התלמיד להציג את המסמכים הכאים.
 - מכתב קבלה ללימודים הכולל תאריך תחילת ליטודים.
- מכתב התחייבות של מוסד הלימודים לעמוד בכללי טשרד הבריאות (טופס הצהרת הבריאות).
 - אישור משרד הבריאות שניתן למוסד הלימודי. (מצייב האישור).
 - התלמיד יקבל אשרת כניסה א/2 ואישור כניסה לישראל, אישור זה יינתן לכל היותר 30 יום לפני תחילת הלימודים.
- להזכירך, במהלך תקופת הבידוד נציני האכיפה יערכו ביקורת פתע כדי לבדוק האם הם סד עומד בהתחייבותו בתנאי הבידוד.

תודה על שיתוף הפעולה ובהצלחה.

מוכל יוסמ כומהלת אגו

העתק - מר אייל סיסו, רחייט לעויינים קונסולריים, משרד החוץ. גבי רות טרבילוב מנהלת לשכת חיפה

> הרשות ברשת: www.piba.gov.il

איתך, במסלול חייך

מר. ז שירות ומידע ארצי טל: 3450★ מכל טלפון

רשות האוכלוסין וההגירה Population & immigration Authority سنظه السكان والهجزة

מינהל האוכלוסין - אגף אוכלוסיות זמניות Temporary population department



מדיכת ישראל State of Mari

אישור בריאות למוסד הלימודי – הטכניון

משרד הבריאות אישר כי המוסד הלימודי-הטכניון עומד בתנאים שנקבעו על בסיס הצהרת הבריאות עליה חתם ראש המוסד הלימודי.

מאושר בכפוף לדיווח על זהות המבטח הרפואי

אישור זה ניתן עבור כניסת תלמידי המוסד לארץ ותקף ככל שלא יתגלו הפרות בכללים שנקבעו.



רשות האוכלוסין וו הגירה

17/08/2020 : תאריך

הרשות ברשת: www.piba.gov.il

איתך, במסלול חייך

מ כז שירות ומידע ארצי ט ": 3450 מכל טלפון

Nivedita L. Raveendran



על החתום ראש המוסד או הממש

רשות האוכלוסין וההנירה Population & Immigration Authority

מינהל האוכלוסין - אגף אוכלוסיות זמניות **Temporary population department**



מדינת ישראל State of Israel

הצהרת בריאות – מוסד לימודי

האחריות המלאה על שמירת ההנחיות כלשונן היא של ראש המוסד הלימודי, חלה ג'יו האחריות בהקפדה על ההנחיות על פי דין בצו גריאות העם למשך 14 יום מיום ההגעה.

- 1. בעת כניסתו של התלמיד מחריל יש לדאוג כי נהג בודד יסיע את התלמידים : ל נוקום הבידוד (אין לוושתמש בתחבורה ציבורית).
 - . אזור חדרי הבידוד צריך להיות מופרד לחלוטין פאזור מטרי התלמידים שא נס בבידוד.
 - ניתן לבודד עד שישה וולמידים באזור בידוד נפרד בעל שירותים ומקלחת ייע דיים לאזור זה. .3
- 4. על מוסד הלימוד לספק את כל צרכי המזון, פינוי אשפה וכביסה למבודדי a v אורך כל תקופת הבידוד.
- יש למנות איש קשו׳ מטעם המוסד כממונה על קשו׳ עם המבודדים, איש ווקי ר ידאג לכל צרכם בכדי. שאלו לא יצאו מהחדר.
- תלמיד שאינו חש בטוב או מפתח תסמינים לקורונה יש ליצור קשר מיידי עו איש הקשר במוסד, על .6 מוסד הלימוד לראוג להעבירו לטיפול לפי מצבו הרפואי.
 - במקרה ונמצא חולה קורונה באומת מבין התלמידים השוהים בבידוד קנוצו י, באחויות המוטד :7 הלימודי לדאוג להעביר את כלל התלמידים המבודדים, מאותו אזור בירו , י בידוד אישי.
 - לכל תלמיד יינתן טופס הטכמה מדעת המפרט את טכנות הבידוד הקבוצהי. .8
- במקרה של סגירת מוסד הלימוד עקב סגר או אי פתיחת שנת הלימודים על ה ווסד הלימודי לדאוג 19 לכל צרכי התלמיד ולהבטיח כי מקום המגורים יאפשר לתלמיד לקיים אר כי הנחיות משרד הבריאות
 - 10. למוסד ממונה קורונה מוסדי אשר יכין את המוסד לעמוד בתנאי הבידוד ו פר דעל קיום הכללים.

שם הממונה ו icd John over 211FFFY Y20 Regit: OA סמנכייל תפעול האחריות המלאה בשמירת הבידור היא של המוסד הלימודים ושל ה-זלמיד.

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פרופ׳ בועז גולני זיתמת -משנה לנשיא ומנכייל		שם מוסד הלימוד הל בנלן
למון	טי	תאריך 28-1-20 כתובת מייל
מ 'כז שירות ומידע ארצי ט ": \$3450 מכל טלפון	איתך, במסלול חייך	הרשות ברשת: www.piba.gov.il



יום רביעי 29 יולי 2020

לכבוד: משרד הבריאות

הנדון: פירוט תנאי בידוד של סטודנטים ששבים מחו״ל בטכניון – מכון טכנולוגי לישראל

.1. כתובת מתקן הבידוד

הסטודנטים ישהו בבידוד בבית ההארחה ייפורשהיימריי, או במעונות הטכניון. שני המתקנים נמצאים בקמפוס הטכניון בחיפה, קריית הטכניון, 3200003.

2. תנאי הבידוד:

בית ההארחה "פורשהיימר": יחידת הדיור מורכבת מחדר יחיד, בו מקלחת ושירותים, ומטבח בתוך היחידה.

מעונות "עווה אמריקה": דירה המכילה חמישה או שישה חדרי שינה (פרטיים), ושני חדרי שירותים ומקלחת. בכל יחידה ישוכנו עד חמישה מבודדים, המטבח בדירה משותף.

החדרים מצוידים בשקיות אשפה אותן המבודדים נדרשים להוציא מחוץ לדלת הדירה במועד מוגדר אחת ליומיים, בשקית כפולה, ונאספים על ידי חברת ניקיון.

- 3. שיטת אספקת המזון : צוות של רכזים חברתיים המועסקים במרכז הבינלאומי בטכניון מסייע למבודדים באספקת מזון והזמנתו.
- א. הרכזים יוצרים קשר עם המבודדים בטרס הגעתם ומקבלים מהם פירוט אוזות המצרפים אותם המבודדים מבקשים לרכוש.
 - ב. הרכזים ערכים את הקניות או לתלופין עושים הזמנה באמצעות שליח.
 - ג. המצרכים מונחים מחוץ לחדר בבית ההארחה/ בפתח הדירה של המבודדים.

. שיטת פיקוח ובקרה: 4

אחראית על טיפול בסטודנטים בינלאומיים יוצרת קשר עם הסטודנטים בטרם הגעתם ושולחת את הנחיות משרד הבריאות לבידוד ביתי. בנוסף, ישנו קשר רציף עם המבודדים בזמן שהותם בבידוד, על מנת לוודא כי הם מרגישים טוב, האם תופיעו להם סימפטומים של הוירוס, האם הם מרגישים טוב מבחינה נפשית והאם הם זקוקים למצרכים שונים.

רשימת המבודדים מועברת ליחידת הביטחון של הטכניון בטרם ההגעה.

5. שם איש הקשר ותפקידו:

מיכל קיסרי, אחראית על טיפול בסטודנטים בינלאומיים

. פרטים על הטיוע הרפואי ובדגש על תהליך המידע במקרה והתלמיד מפתח תסמיני מחלה

במסגרת העברת ההנחיות, המבודדים מיודעים מהם הסימפטומים האופיוניים למחלה, וכן מתבקשים בטרם ההגעה להצטייד במד חום.

במקרה של הופעת סימפטומים המבודדים נדרשים ליידע את האחראית על טיפול בסטודנטים באופן במיידי.

Nivedita L. Raveendran

במידה והסטודנטים מבוטחים בביטוח בריאות ישראלי, אחראית על טיפול בסטודנטים בינלאומיים מייזעת את חברת הביטוח אשר יוצרת קשר עם הסטודנט ועם קופת החולים, ובמקביל מייזעת את נציגת משרד הבריאות במחוז חיפה ואת גורמי ההנהלה בטכניון.

Executive Vice President for Academic Affairs משנה לנשיא לעניינים אקדמיים



13/09/2021

לכבוד שגרירות ישראל

הנדון: אשרת כניסה למשתלמת_____Nivedita Lalitha Raveendran

הנ"ל מוזמנת כמשתלמת בתר-דוקטורט לפקולטה ל ____מדע והנדסה של חומרים_____

מנחה ההשתלמות: _____ ד"ר יונתן קלהורה _____

פרטי המשתלמת:

- Nivedita Lalitha Raveendran :שם .1
 - 29/07/1987 :תאריך לידה. 2
 - 3. אזרחות: הודית
 - 4. מספר דרכון: Z5936242
 - 01/10/2021 : מועד הגעה לטכניון. 5
 - 6. תקופת השהות: עד סוף ספטמבר 2022

נודה לכם באם תאשרו לנ"ל אשרת א2 עם כניסות חוזרות.

בתודה על שתוף הפעולה ובברכה,

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פרופ' שמעון מרום המשנה לנשיא לעניינים אקדמיים

Tel: +972-4-8292594 :"שט Fax: +972-4-8292424 :סקס Email: manla@tx.technion.ac.il דוא"ל: Trik Technion City, Haifa 3200003, Israel 3200003 קרית הטכניון, חיפה www.technion.ac.il



הנדון: התחייבות בקשר לקבלת אישור כניסה פרטני למדינת ישראל

הואיל ופנית בבקשה לקבלת אישור פרטני לכניסה לישראל, מצ"ב טופס התחייבות לחתימתך המהווה תנאי לאישור הכניסה.

Subject: obligations regarding individual permission to enter The State of Israel

As you have applied for an individual permit to enter Israel, attached is a commitment form for your signature, which is a condition for approval.

שם החתום\ה מטה:Name of the undersigned <u>Nivedita Lalitha Raveendran</u>

ID or Passport number <u>Z5936242</u> : ת"ז או דרכון

Telephone number (where you can be reached in Israel) +97248292429 :טלפון

place of isolation Full address <u>Forchheimer Guest House, Neaman Institute</u> <u>Building, Haifa, Israel :</u>)כתובת מלאה

Name of host<u>Technion – Israel Institute of Technology</u> שם המארח

host number phone <u>+97248292429</u> מספר טלפון של המארח

אני החתום\ה מטה מתחייב\ת בזאת לעמוד בתנאים המפורטים להלן: I, the undersigned, hereby guarantee that the applicants, who are not residents of Israel, comply with the following conditions:

- אני מכיר\ה את ההנחיות לבידוד בית המפורסמות באתר משרד הבריאות.
 <u>Applicants are familiar with the guidelines for home isolation available on the Ministry of</u> <u>Health website.</u>
 - 2. אנימתחייב\תלפעול בהתאם להנחיות המפורסמות באתר משרד הבריאות. Applicants have pledged to follow the guidelines published on the Ministry of Health website.
 - 3. אני מתחייב\ת לדווח למשרד הבריאות על שהותי בבידוד בית באתר: I undertake to report my home isolation to the ministry of health at:_

https://govforms.gov.il/mw/forms/HouseIsolation@health.gov.il





4. אני מתחייב\ת כי הנסיעה משדה התעופה לדירה בה ישהו בבידוד תהיה ברכב פרטי בלבד)ולא בתחבורה ציבורית, ובכללזה מונית(. Applicants will travel from the airport to the address where they will stay in isolation only by

private vehicle (and not by public transport, including taxis).

- 5. אני מתחייב\ת למדוד חום גוף מדי יום במהלך 14 הימים החל מיום הנחיתה בארץ. Applicants will measure body tempurature daily during the 14 days from the date of landing in the country.
- 6. בכל מקרה של הופעת חום מעל 38 מעלות, שיעול, קושי בנשימה או תסמין נשימתי אחר, אני מתחייב\ת לדווח באופן מיידי למשרד הבריאות באמצעות מוקד מד"א 101

In the event of a fever above 38 degrees, or coughing, or difficulty breathing or other respiratory symptoms, applicants should immediately report to the Health Ministry by 101

> Nivedita Lalitha Raveendran התימה: תאריך: 17/10/2021



Ministry of Health & Family Welfare Government of India

Final Certificate for COVID-19 Vaccination

Beneficiary Details

Beneficiary Name	Nivedita L Raveendran
Age	34
Gender	Female
ID Verified	PAN Card # CFOPR2200G
Unique Health ID (UHID)	
Beneficiary Reference ID	83462901624500
Vaccination Details	
Vaccine Name	COVISHIELD
Date of 1 st Dose	05 Jun 2021 (Batch no. 4121Z086)
Date of 2 nd Dose	28 Aug 2021 (Batch no. 4121Z129)
Vaccinated by	LINI E V
Vaccination at	DHANALAKSHMI HOSPITAL



Together, India will defeat COVID-19"

- Prime Minister Narendra Modi

In case of any adverse events, kindly contact the nearest Public Health Center/ Healthcare Worker/District Immunization Officer/State **Helpline No. 1075**





October 10, 2021

For your peace of mind



To whom it may concern,

We hereby confirm that:

Ms. Lalitha Raveendran Nivedita passport No. Z5936242 is insured by our company according to the Tour & Care insurance policy. The policy is valid from 15/11/2021 to 30/09/2022.

The Policy covers COVID-19 in accordance with and subject to the terms of the Policy and the underwriting policy of the Company.

The policy is supported by a 24 hour service: In Israel Through Harel Insurance Company LTD. Tel no. 972-3-7547020 Fax no. 972-3-7348168

Sincerely, Harel Insurance Company

Harel Insurance Company LTD. - Travelers Insurance Claims Department Harel Building, 3 Abba Hillel Street, P.O.B 1951, Ramat-Gan 52118, Israel www.harel-group.co.il 🕐 *2735



			Travel for less	-	
Your tri	р		Booking ref: Document Issu Date:	4QSFT5 e 17 October 202	Check trip itinerary 1
Traveler	Nivedita Lal	litha Raveendran	Agency Telephone Fax Email	BOOKOTRIP LLC 800 W Airport Free IRVING TX 75062 972 456-9999 972 456 9898 sales@bookotrip.c	way, Ste 1100 om
E	Stay o plans	on top of your t with CheckMy	ravel Trip	TR	Y IT, IT'S FREE
Wednesday	17 Novembe	er 2021			
×	Etihad Airw	ays EY 281			
Check-in	Departure Arrival Duration Booking status Class Equipment Flight meal	17 November 02:45 17 November 05:30	Kochi, (Kochi Inter Abu Dhabi, (Intern 04:15 (Non stop) Confirmed Economy (L) BOEING 787-10 Meal	rnational) (+) Terr ational) (+) Terr	minal: 3 minal: 1
Wednesday	17 Novembe	er 2021			
X	Etihad Airw	ays EY 598			
Check-in	Departure Arrival Duration Booking status Class Equipment Flight meal	17 November 10:05 17 November 11:30	Abu Dhabi, (Intern Tel Aviv Yafo, (Ber 03:25 (Non stop) Confirmed Economy (L) BOEING 787-9 Meal	ational) (+) Tern	minal: 3
	General Info Ecological i Calculated aver Source: ICAO C http://www.icao.i	ormation information rage CO2 emission is 363.23 k Carbon Emissions Calculator int/environmental-protection/Carl	g/person bonOffset/Pages/default.aspx		
	Airline Bool EY (Etihad Airw	king Reference(s) /ays): CUSEYB			

Data Protection Notice: Your personal data will be processed in accordance with the applicable carrier's privacy policy and, if your booking is made via a reservation system provider ("GDS"), with its privacy policy. These are available at http://www.iatatravelcenter.com/privacy or from the carrier or GDS directly. You should read this documentation, which applies to your booking and specifies, for example, how your personal data is collected, stored, used, disclosed and transferred. (applicable for interline carriage).



NIVEDITA L RAVEENDRAN

Joint Holder :- -CHENGALATH PUZHATHI PO CHIRAKKAL KANNURPUZHATHI KANNUR KERALA-INDIA 670011

Customer No :899089054 Scheme :SB-PRIORITY BANKING Currency :INR

Statement of Axis Account No :920010060690746 for the period (From : 16-04-2021 To : 15-10-2021)

Tran Date	Chq No	Particulars	Debit	Credit	Balance	Init. Br
		OPENING BALANCE			24119.00	
03-05-2021		RD/921050052442624/NIVEDITA L RAVEENDRAN	5000.00		19119.00	159
06-05-2021		UPI/P2A/112616633136/RANJITH K/Bank of I/UPI		15000.00	34119.00	159
19-05-2021		UPI/P2A/113910455538/RANJITH K/Bank of I/UPI	25000.00		9119.00	159
23-05-2021		ECOM PUR/BSNL/MUMBAI/230521/13:38	946.00		8173.00	159
24-05-2021		UPI/P2M/114417308196/AMAZON/Axis Bank/You are	1240.40		6932.60	159
02-06-2021		RD/921050052442624/NIVEDITA L RAVEENDRAN	5000.00		1932.60	159
26-06-2021		UPI/P2A/117717282806/PRASADITA/State Ban/please		6500.00	8432.60	159
26-06-2021		UPI/P2M/117719811889/AMAZON/Axis Bank/You are	4427.00		4005.60	159
26-06-2021		UPI/P2M/117720905387/AMAZON/Axis Bank/You are	1499.00		2506.60	159
26-06-2021		ECOM PUR/BSNL/MUMBAI/260621/15:57	945.00		1561.60	159
01-07-2021		UPI/P2A/118243628564/RANJITH K/Bank of I/UPI		30000.00	31561.60	159
01-07-2021		UPI/P2A/118212546780/NIVEDITA /State Ban/ranjith	5000.00		26561.60	159
01-07-2021		RD/921050052442624/NIVEDITA L RAVEENDRAN	5000.00		21561.60	159
01-07-2021		920010060690746:Int.Pd:01-04-2021 to 30-06- 2021		119.00	21680.60	159
06-07-2021		UPI/P2M/118713144987/billdeskt/ICICI Ban/UPI	946.00		20734.60	159
06-07-2021		UPI/P2A/118713201489/GOOGLEPAY/Axis Bank/UPI		20.00	20754.60	159
07-07-2021		UPI/P2M/118817576429/AMAZON/Axis Bank/You are	1138.00		19616.60	159
09-07-2021		UPI/P2M/119017343856/AMAZON/Axis Bank/You are	1500.00		18116.60	159
22-07-2021		UPI/P2M/120310908731/Razorpay /State Ban/SHAPEAI	5000.00		13116.60	159
22-07-2021		UPI/P2A/120317689855/PRASADITA/State Ban/amazon		4000.00	17116.60	159
22-07-2021		UPI/P2M/120317223927/AMAZON/Axis Bank/You are	960.00		16156.60	159
22-07-2021		UPI/P2A/120317353021/GOOGLEPAY/Axis Bank/Earned		3.00	16159.60	159
28-07-2021		UPI/P2M/120910533662/AMAZON/Axis Bank/You are	562.00		15597.60	159
01-08-2021		UPI/P2M/121315287872/AMAZON/Axis Bank/You are	570.00		15027.60	159
02-08-2021		RD/921050052442624/NIVEDITA L RAVEENDRAN	5000.00		10027.60	159
03-08-2021		UPI/P2M/121514527048/Payu Paym/HDFC BANK/Upi Tra	3193.00		6834.60	159

05-08-2021	UPI/P2A/121722433021/PRASADITA/State Ban/for yes		3000.00	9834.60	159
06-08-2021	UPI/P2M/121816562150/billdeskt/ICICI Ban/UPI	919.00		8915.60	159
06-08-2021	UPI/P2M/121823415757/AMAZON/Axis Bank/You are	268.00		8647.60	159
07-08-2021	UPI/P2M/121910463591/Vodafone /Paytm Pay/UPI	449.00		8198.60	159
07-08-2021	UPI/P2M/121914692823/AMAZON/Axis Bank/You are	1447.00		6751.60	159
07-08-2021	UPI/P2A/121914981233/PRASADITA/State Ban/Amazon		5500.00	12251.60	159
07-08-2021	UPI/P2M/121914988001/AMAZON/Axis Bank/You are	5174.00		7077.60	159
09-08-2021	UPI/P2M/122120250907/AMAZON/Axis Bank/You are	2203.00		4874.60	159
10-08-2021	UPI/P2M/122210724943/AMAZON/Axis Bank/You are	269.00		4605.60	159
10-08-2021	UPI/P2A/122216004861/GOOGLEPAY/Axis Bank/Earned		5.00	4610.60	159
10-08-2021	UPI/P2A/122216008095/GOOGLEPAY/Axis Bank/Earned		5.00	4615.60	159
10-08-2021	UPI/P2M/122218402600/AMAZON/Axis Bank/You are	299.00		4316.60	159
14-08-2021	UPI/P2M/122610889323/AMAZON/Axis Bank/You are	399.00		3917.60	159
14-08-2021	UPI/P2A/122620848986/MANO PRIY/Canara Ba/persona		20000.00	23917.60	159
14-08-2021	UPI/P2A/122620896694/NIVEDITA /State Ban/Mano re	20000.00		3917.60	159
15-08-2021	UPI/P2M/122711582120/AMAZON/Axis Bank/You are	1699.00		2218.60	159
16-08-2021	UPI/P2A/122809278775/NIVEDITA /State Ban/UPI		10000.00	12218.60	159
16-08-2021	UPI/P2M/122809559908/Flipkart/Yes Bank /UPI	4844.00		7374.60	159
16-08-2021	UPI/P2M/122810201780/wforwoman/Axis Bank/UPI Tra	5038.00		2336.60	159
17-08-2021	UPI/P2A/122904540401/Amazon Pa/Axis Bank/Refund		605.00	2941.60	159
17-08-2021	UPI/P2M/122908499262/AMAZON/Axis Bank/You are	575.00		2366.60	159
17-08-2021	UPI/P2A/122908687522/GOOGLEPAY/Axis Bank/Earned		4.00	2370.60	159
22-08-2021	UPI/P2A/123423066139/PRASADITA/State Ban/UPI	1.00		2369.60	159
23-08-2021	UPI/P2A/123511696906/PhonePe/Yes Bank /PhonePe		659.00	3028.60	159
23-08-2021	UPI/P2A/123511696941/PhonePe/Yes Bank /PhonePe		341.00	3369.60	159
23-08-2021	UPI/P2M/123511770717/AMAZON/Axis Bank/You are	569.00		2800.60	159
23-08-2021	UPI/P2M/123516287655/AMAZON/Axis Bank/You are	1073.00		1727.60	159
23-08-2021	UPI/P2M/123520856749/Flipkart/Yes Bank /UPI	783.00		944.60	159
24-08-2021	UPI/P2M/123613987365/AMAZON/Axis Bank/You are	599.00		345.60	159
24-08-2021	UPI/P2A/123615326200/Amazon Pa/Axis Bank/Refund		575.00	920.60	159
25-08-2021	UPI/P2A/123711179481/PhonePe/Yes Bank /PhonePe		399.00	1319.60	159
26-08-2021	UPI/P2M/123830530878/IRCTC App/Paytm Pay/Oid1000	121.80		1197.80	159
26-08-2021	UPI/P2M/123830670067/IRCTC App/Paytm Pay/Oid1000	106.80		1091.00	159
30-08-2021	UPI/P2M/124214693600/AMAZON/Axis Bank/You are	109.00		982.00	159
31-08-2021	UPI/P2M/124306102812/Google Pa/Axis Bank/Sold by	520.00		462.00	<u>15</u> 9

01-09-2021	UPI/P2A/124422430175/NIVEDITA /State Ban/Amazon		2000.00	2462.00	159
02-09-2021	UPI/P2M/124510826956/AMAZON/Axis Bank/You are	1075.00		1387.00	159
02-09-2021	UPI/P2M/124517408100/AMAZON/Axis Bank/You are	667.00		720.00	159
02-09-2021	UPI/P2A/124544133445/M N ANAN/State Ban/Netflix	200.00		520.00	159
03-09-2021	UPI/P2A/124611297037/NIVEDITA /State Ban/amazon		2000.00	2520.00	159
03-09-2021	UPI/P2M/124611694083/AMAZON/Axis Bank/You are	651.00	2000100	1869.00	159
03-09-2021	UPI/P2M/124622971067/AMAZON/Axis Bank/You are	599.00		1270.00	159
05-09-2021	UPI/P2M/124886975711/Google Pa/Axis Bank/Sold by	520.00		750.00	159
05-09-2021	UPI/P2A/124819482548/NIVEDITA /State Ban/amazon		2600.00	3350.00	159
05-09-2021	UPI/P2M/124820261236/AMAZON/Axis Bank/You are	2714.00	2000.00	636.00	159
05-09-2021	UPI/P2M/124820191488/AMAZON/Axis Bank/You are	340.00		296.00	159
10-09-2021	UPI/P2A/125391153920/PRAVEEN /Canara	540.00	1.00	297.00	159
10-09-2021	UPI/P2A/125394635083/PRAVEEN /Canara		10000.00	10297.00	159
10-09-2021	UPI/P2A/125394642397/PRAVEEN /Canara Ba/UPI		5000.00	15297.00	159
10-09-2021	UPI/P2A/125346290896/PRAVEEN K/Bank of		5000.00	20297.00	159
11-09-2021	UPI/P2M/125456725481/IRCTCRazo/ICICI	177.20	5000.00	20277.00	150
11-09-2021	UPI/P2M/125456795301/IRCTCRazo/ICICI	207.29		19912 42	159
11.00.2021	UPI/P2A/125490249777/GOOGLEPAY/Axis	201.25	4.00	19916.42	150
11-09-2021	UPI/P2M/125490270995/billdeskt/ICICI Ban/UPI	919.00	4.00	18997.42	159
11-09-2021	UPI/P2M/125456932470/IRCTCRazo/ICICI Ban/IRCTC T	207.29		18790.13	159
12-09-2021	UPI/P2M/125531242202/IRCTC App/Paytm Pay/Oid1000	156.80		18633.33	159
13-09-2021	UPI/P2M/125611725102/AMAZON/Axis Bank/You are	340.00		18293.33	159
14-09-2021	UPI/P2M/125748568272/Google Pa/Axis Bank/Sold by	260.00		18033.33	159
14-09-2021	UPIP2PREC/TCC103/125685649035/140921		207.29	18240.62	100
16-09-2021	UPI/P2M/125908904971/AMAZON/Axis Bank/You are	340.00		17900.62	159
16-09-2021	UPI/P2A/125985947204/Amazon Pa/Axis Bank/Refund		340.00	18240.62	159
17-09-2021	UPI/P2M/126011471300/Google Pa/Axis Bank/Sold by	890.00		17350.62	159
18-09-2021	UPI/P2M/126109588035/AMAZON/Axis Bank/You are	1613.00		15737.62	159
19-09-2021	UPI/P2M/126241021280/razorpay/ICICI Ban/Minimali	580.50		15157.12	159
20-09-2021	UPI/P2M/126361042361/Google Pa/Axis Bank/Sold by	520.00		14637.12	159
22-09-2021	UPI/P2M/126593536789/Google Pa/Axis Bank/Sold by	890.00		13747.12	159
23-09-2021	UPI/P2M/126619967277/HEALTHIFY/INDUSIN D/UPI	7854.00		5893.12	159
23-09-2021	UPI/P2A/126619995130/GOOGLEPAY/Axis Bank/Earned		6.00	5899.12	159
27-09-2021	UPI/P2M/127074508095/Google Pa/Axis Bank/Sold by	890.00		5009.12	159
28-09-2021	MOB/TPFT/LALITHA C R/918010087721372	4800.00		209.12	159

01-10-2021	920010060690746:Int.Pd:01-07-2021 to 30-09-2021		78.00	287.12	159
06-10-2021	IMPS/P2A/127914328401/RANJITDH/FEDERA LB/MoneyGra		30119.04	30406.16	159
09-10-2021	UPI/P2A/128216477659/VEENA MOH/Canara Ba/UPI	2370.00		28036.16	159
09-10-2021	UPI/P2M/128217229961/AMAZON/Axis Bank/You are	499.00		27537.16	159
09-10-2021	UPI/P2M/128217627328/AMAZON/Axis Bank/You are	7419.00		20118.16	159
09-10-2021	UPI/P2M/128221383908/Google Pa/Axis Bank/Sold by	890.00		19228.16	159
09-10-2021	UPI/P2M/128224374066/Google Pa/Axis Bank/Sold by	1800.00		17428.16	159
10-10-2021	UPI/P2M/128330261076/Google Pa/Axis Bank/Sold by	1800.00		15628.16	159
11-10-2021	UPI/P2A/128446938982/PRASADITA/State Ban/UPI	25.00		15603.16	159
11-10-2021	UPI/P2M/128449968638/Swiggy/Axis Bank/Swiggy O	1514.00		14089.16	159
12-10-2021	UPI/P2M/128566596130/VODAFONE /HSBC/UPI	1000.00		13089.16	159
14-10-2021	UPI/P2M/128711108274/AMAZON/Axis Bank/You are	329.00		12760.16	159
14-10-2021	UPI/P2M/128711924985/AMAZON/Axis Bank/You are	974.00		11786.16	159
	TRANSACTION TOTAL	166423.17	154090.33		
	CLOSING BALANCE			11786.16	

Unless the constituent notifies the bank immediately of any discrepancy found by him/her in this statement of Account, it will be taken that he/she has found the account correct.

The closing balance as shown/displayed includes not only the credit balance and / or overdraft limit, but also funds which are under clearing. It excludes the amount marked as lien, if any. Hence the closing balance displayed may not be the effective available balance. For any further clarifications, please contact the Branch.

We would like to reiterate that, as a policy, Axis Bank does not ask you to part with/disclose/revalidate of your iConnect passord,login id and debit card number through emails OR phone call Further, we would like to reiterate that Axis Bank shall not be liable for any losses arising from you sharing/disclosing of your login id, password and debit card number to anyone. Please co-operate by forwarding all such suspicious/spam emails, if received by you, to customer.service@axisbank.com

With effect from 1st August 2016, the replacement charges for Debit card and ATM card applicable on Current accounts have been revised. To know more about the applicable charges, please visit www.axisbank.com

REGISTERED OFFICE - AXIS BANK LTD, TRISHUL, Opp. Samartheswar Temple, Near Law Garden, Ellisbridge, Ahmedabad. 380006. This is a system generated output and requires no signature.

Legends :

ICONN - Transaction trough Internet Banking

VMT-ICON - Visa Money Transfer through Internet Banking

AUTOSWEEP - Transfer to linked fixed deposit

REV SWEEP - Interest on Linked fixed Deposit

SWEEP TRF - Transfer from Linked Fixed Deposit / Account

VMT - Visa Money Transfer through ATM

CWDR - Cash Withdrawal through ATM

PUR - POS purchase

TIP/ SCG - Surcharge on usage of debit card at pumps/railway ticket purchase or hotel tips

RATE.DIFF - Difference in rates on usage of card internationally

- CLG Cheque Clearing Transaction
- EDC Credit transaction through EDC Machine
- SETU Seamless electronic fund transfer through AXIS Bank
- Int.pd Interest paid to customer
- Int.Coll Interest collected from the customer

രാരത സർക്കാർ GOVERNMENT OF INDIA

നിവേദിത എൽ രവിന്ദൻ Nivedita L Raveendran അച്ഛൻ ഡോ കെ രവിരുൻ Father : Dr K RAVEENDRAN

നോതു / Female



8281 4077 1869

ആധാർ – സാധാരണക്കാരന്റെ അവകാശം

Scanned with CamScanner

COUNCIL FOR THE INDIAN SCHOOL CERTIFICATE EXAMINATIONS, NEW DELHI INDIAN CERTIFICATE OF SECONDARY EDUCATION EXAMINATION 2003

No.TT 3635948



STATEMENT OF MARKS

Name	NIVEDITA L RAVEENDRAN	index	No.	T/2153	/025
of	SREEPURAM ENG.MED.H.SC	H.& JR.COLL.,KA	NNUR		
External Ext	amination	PERCE	NTAGE	MARKS	
ENG	SLISH		78	SEVEN	EIGHT
MAL	AYALAM		95	NINE	FIVE
HIS	STORY CIVICS & GEOGRAPHY	(HCS-A,GED-B)	95	NINE	FIVE
MAT	THEMATICS	and the second second second	86	EIGHT	SIX
SCI	IENCE (PHY-C, CHE-A, BIO-B	,	80	EIGHT	ZERO
COP	PUTER SCIENCE		97	NINE	SEVEN
Internal Ass	essment Alegory			GRADE	
SUPW 8	COMMUNITY SERVICE	-		A	
Date of Bir	th 29.07.1987				
RESULT	- PASS CERTIFICATE A	WARDED			
Note 1. Th	e pass mark for each subject is 35%		+	N	~
2 No	o divisions are awarded. (See Ov	erleaf) Chief	Exect	tive & Sec	retary

COUNCIL FOR THE INDIAN SCHOOL CERTIFICATE EXAMINATIONS, NEW DELHI INDIAN SCHOOL CERTIFICATE EXAMINATION 2005

No. BG1436173



STATEMENT OF MARKS

Name NIVEDITA L RAVEENDRAN

Index No. 8/8485/001

GRADE

of SREEPURAM ENG. MED. H. SCH. & JR. COLL. , KANNUR

SUBJECTS External Examination ENGLISH MATHEMATICS PHYSICS CHEMISTRY BIOLOGY COMPUTER SCIENCE

PERCENTAGE MARKS

86 EIGHT SIX 51 FIVE DNE 62 SIX TWO 76 SEVEN SIX 88 EIGHT EIGHT 86 EIGHT SIX

Internal Assessment

SUPW & COMMUNITY SERVICE

RESULT - PASS CERTIFICATE AWARDED

Note : 1. The pass mark for each subject is 40%

2. No divisions are awarded.

(See Overleaf)

Chief Executive & Secretary



R UNIVERS

FACULTY OF SCIENCE

Whereas it has been certified by duly appointed Examiners that

NIVEDITA L RAVEENDRAN

is qualified to receive the Degree of Bachelor of Science she having passed and been placed

in 1 Class in Part 1 English

in 1 Class in Part 11 Second Language (Malayalam) and

in 1 Class in Part III Optional Subjects (Pattern 1)

Physics Main and

Mathematics and Chemistry Subsidiaries

at the Examinations held in April - 2007, April - 2007, March - 2008 respectively.

Register	Number	and Year	Part	1).	5594,	April -	2007
Register	Number	and Year	Part	11).	5594,	April -	2007
Register	Number	and Year	Part	ш).	5594,	March -	2008

The Syndicate of Kannur University hereby confers on her the Degree of Bachelor of Science

With all the Rights. Privileges and Honours thereanto appertaining. Given under the seal of the University.



VICE-CHANCELLOR

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பாரதியார் பல்கலைக் கழகம் Bharathiar University

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FACULTY OF SCIENCE

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PHYSICS. harving been certified by duly appointed "Examiners to be qualified to movies the same on 7th SEPTEMBER 2018. Syndicate of the Pharachiar University hereing makes known that NIVEDITAL RAVEENDRAN DOCTOR OF PHILOSOPHY In fo Degree the ter: admitted First . The First

Given under the Seal of the University.

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Daled 26th February 2019 Controller of Examinations (c

NIVEDITA L. RAVEENDRAN

niveditalrc@gmail.com; nivedita_lr@outlook.com Google Scholar: <u>bit.ly/2M5q4IQ</u> Research Gate: <u>bit.ly/38PKob6</u> LinkedIN: <u>https://www.linkedin.com/in/nivedita-lalitha-raveendran/</u> ResearcherID: ABA-6192-2021; ORCID ID: 0000-0002-4373-3912

PERSONAL INFORMATION

DOB: 29/07/1987 SEX: Female Phone: +91-8940334911 Nationality: Indian

Research Interests



Single/multilayer metal, metal alloy and metal oxide thin film synthesis and characterization; synthesis and characterization of nanomaterials; 2D materials for microelectronics; enhancement of magnetostriction in galfenol thin films; fabrication and property analysis studies in multicomponent alloy systems; swift heavy ion and low energy ion irradiation of thin films, their structure-property correlation studies and interfacial mixing and other effects.

EDUCATION

Ph.D. in Physics | Department of Physics, Bharathiar University | September 2018

Dissertation: Growth, Characterization, and Ion Irradiation Effects on Magnetic and Magnetostrictive Properties of Galfenol (FeGa) Thin Films

Advisor: Prof. R. T. Rajendra Kumar

P.G. Diploma in Computer Applications | Department of Computer Sciences, Bharathiar University | December 2010 | 70%

M.Sc. in Physics | Department of Physics, Bharathiar University | April 2010 | 5.02 out of 6 Thesis: Effect of Substitution of Sn on the Structural and Magnetic Properties of $SmCo_{6.8-x}Sn_xZr_{0.2}$ (x = 0.1 & 0.3) Nanostructured Metastable Alloys

B.Sc. in Physics | Department of Physics, Kannur University | June 2008 | 90%

PROFESSIONAL EXPERIENCE

Staff Researcher | |Centre for Advanced Materials, Aaivalayam-Dynamic Integrated Research Academy & Corporations (ADIRAC) | March 2020 – current

- Consult on research projects at ADIRAC and help master and PhD students with their respective projects while exploring new projects and proposal preparation for funding.
- A book chapter in press (CRC Press) on MXenes: Preparation, properties and applications
- A manuscript is in pipeline for structural and PL studies of Eu^{3+} and Yb^{3+} doped CdS nanoparticles

Online Tutor | Tutor Pixie and TeacherOn | April 2020 – current

- Helps students of high school, junior college and bachelors with their academic curriculum and individual requirement
- Students from USA, Sweden, India, UAE and China

Postdoctoral Research Associate | Center for Advanced Materials Research, University of Texas at El Paso | January 2019 – January 2020

- Researching on structural and physical properties of MoGa thin films as thermal contacts for Ga₂O₃.
- Researching on Nb as ohmic/Schottky contact for Ga₂O₃ thin films.

- Investigating Nb based high entropy alloy thin films physical properties such as wear and corrosion resistance for high-temperature applications.
- The preliminary results show that the resistivity of the Nb and MoGa thin films is comparable to that of other state-of-the-art materials used for the same application.
- A manuscript published on substrate temperature effects on Nb thin films.
- A manuscript published on the alginate based ZnO nanoparticle scaffolds for wound healing.
- A manuscript is in pipeline for substrate temperature and pressure dependent effects on MoGa thin films.
- Responsible for managing the lab, materials and supplies as well as helping the undergraduate, M.S., and Ph.D. students with their respective project tasks.
- Guided an undergraduate student from the University of California Santa Barbara and coauthored a poster for the COURI symposium.

Guest Lecturer | Sree Narayana College, Kannur, Kerala | August 2010 – December 2010

- Taught advanced quantum mechanics and electrodynamics to postgraduate students during the 2010-2011 academic year. 12 out of the 15 students in class scored more than 85% in their finals while the rest of them scored more than 70%.
- Taught basic electronics, optics, and solid-state physics to undergraduate students during the 2010-2011 academic year. 90% of the students passed their finals.
- Planned and conducted various practical experiments concerning the curriculum.
- Supervised B.S. Project work for the final semester students.

Teaching Assistant | Bharathiar University | July 2013 – December 2013

- Taught spectroscopy to postgraduate students in the Department of Nanoscience and Technology, Bharathiar University, during my doctoral studies. 100 % pass percentage for a class of 20.
- Taught basic electronics and energy resources as supportive subjects to postgraduate students, Department of Physics of Bharathiar University, during my doctoral studies. *100 % pass percentage for a class of 30.*

PROFESSIONAL DEVELOPMENT

- Crash Course on Python (MOOC from Coursera) Provided by Google Instructor: Ms. Christine Rafla, Systems administrator, Google
- 2. Programming for Everybody (Getting started with python) (MOOC from Coursera) Provided by University of Michigan Instructor: Prof. Charles Russell Severance, Clinical professor, School of Information
- Python data structures (MOOC from Coursera) Provided by University of Michigan
- Instructor: Prof. Charles Russell Severance, Clinical professor, School of Information 4. Python for data science (MOOC from NPTEL)
- Provided by Indian Institute of Technology, Madras Instructor: Prof. Ragunathan Rengasamy, Department of Chemical Engineering

RESEARCH EXPERIENCE

Center for Advanced Materials Research | University of Texas at El Paso | Postdoctoral Research Associate | January 2019 – January 2020

Low resistivity values obtained for both Nb and MoGa thin films.

As the post-doctoral research associate at the center, I was part of several research projects including fabrication of metal and metal alloy thin films and their characterization for use as Schottky and ohmic contacts for oxide semiconductors like Ga_2O_3 . Investigations on Nb and MoGa thin films fabricated by RF magnetron sputtering were carried out. The objective of the project was to study the structural, morphological, optical and electrical properties of the thin films and to determine if modifying the fabrication conditions could improve their properties. Fabrication and detailed study of

Nb based high entropy alloy for high temperature applications was also explored and this project is still underway. I was also part of a project which deals with alginate based ZnO nanoparticle scaffolds for wound healing applications and I was responsible for the preparation and characterization of the nanoparticles.

Inter University Accelerator Center (IUAC), New Delhi & Bharathiar University, Coimbatore Doctoral researcher and University Grants Commission – IUAC Junior Research Fellow | April 2012 – September 2015

Influence of Swift Heavy Irradiation on the Structural and Magnetic Properties of Galfenol ($Fe_{1-x}Ga_x$) Thin Films

Enhanced magnetic anisotropy up to 16 times that of the pristine thin films via ion irradiation, attained.

In this work, galfenol (FeGa) thin films were synthesized by direct current magnetron sputtering and pulsed laser deposition methods. The effect of different parameters on the growth and properties of these thin films was also studied. These films were subjected to post-deposition ion irradiation (Ag and O ions) and ion implantation (Co and N ions) and the effect of irradiation on the structural, morphological, and magnetic properties was investigated. Moreover, inherent magnetic anisotropy and coercivity of the films play a major role in enhancing or deteriorating the magnetostriction constant of the films along with other constituents like structural phases and morphology. Ion irradiation and implantation were carried out to modify the magnetic anisotropy with the objective to increase the magnetostriction constant. Both Ag and O ion irradiation enhanced the magnetic anisotropy of the film deposited to 11 and 16 times, respectively, from the value of the pristine thin film. Since magnetostriction, an important property required for several functional magnetic materials applications, is correlated to magnetic anisotropy, a detailed analysis of the low energy ion irradiation and evice fabrication.

Defence Metallurgical Research Laboratory (DMRL), Hyderabad | November 2009 – February 2010 | M.S. Project work: Advanced Magnetics Groups, DMRL

Effect of Substitution of Sn on the Structural and Magnetic Properties of $SmCo_{6.8-x}Sn_xZr_{0.2}$ (x = 0.1 & 0.3) Nanostructured Metastable Alloys

Higher stability and magnetization obtained after Sn substitution.

Sn substituted SmCoZr alloys were melt spun to form ribbons and substitution effects on the structural and magnetic properties of the as prepared ribbons are investigated.

Indian Institute of Science, Bangalore | April 2009 – July 2009

Summer Intern/Indian Academy of Sciences Fellow | Studying Spin Systems

Theoretical understanding of different spin systems in materials.

AWARDS AND ACHIEVEMENTS

Newton International Fellowship | September 2018

One of fifteen recipients funded by the Royal Society, U.K. and the Science and Engineering Board of India. Did not accept the award to start as a postdoctoral research associate at the University of Texas at El Paso.

Best Poster Award by Royal Society of Chemistry Sustainable Energy & Fuels | February 2017

Ni-Zn Ferrite/Graphene Oxide Composites as Effective As & Pb Adsorbent for Water presented at the International Conference on Nano for Energy and Water (NEW 2017).

Junior Research Fellow of University Grants Commission | April 2012 – September 2015

Fellow of the University Grants Commission – Inter University Accelerator Center Project, Department of Physics, Bharathiar University.

Research Student Conference Fund Award by Institute of Physics (IOP) | July 2015

Awarded a travel grant to attend the International Conference on Materials for Advanced Technologies (ICMAT) by the IOP Thin Films and Surfaces Group, Institute of Physics, London.

Best Paper Award at the National Conference on Recent Advances in Magnetic Materials & Applications | January 2010

Effect of Substitution of Sn on the Structural and Magnetic Properties of $Smco_{6.8-x}sn_xzr_{0.2}$ (X = 0.1 & 0.3) Nanostructured Metastable Alloys presented at the National Conference on Recent Advances in Magnetic Materials & Applications (MAGMA 2010).

Summer Research Fellow of the Indian Academy of Sciences | April 2009 – July 2009

Recipient of this research fellowship, jointly sponsored by the Indian Academy of Sciences, the Indian National Science Academy and the National Academy of Sciences, India.

PUBLICATIONS

- 1. L. R. Nivedita, Avery Haubert, Anil K. Battu and C. V. Ramana, "Correlation between Crystal Structure, Surface/Interface Microstructure and Electrical Properties of Nanocrystalline Niobium Thin Films", *Nanomaterials*, 10, 1287, (2020). DOI: 10.3390/nano10071287
- Cleetus CM, Alvarez Primo F, Fregoso G, L. R. Nivedita, Noveron JC, Spencer CT, Ramana CV, Joddar B. Alginate Hydrogels with Embedded ZnO Nanoparticles for Wound Healing Therapy. *International Journal of Nanomedicine*, 15, 5097-5111, (2020) DOI: 10.2147/IJN.S255937
- C.R. Minitha, L.R. Nivedita, K. Asokan and R.T. Rajendra Kumar, "Tuning the Electrical Properties of Graphene oxide by Nitrogen Ion Implantation: Implication for Gas Sensing", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 450, 257–261, (2019). DOI: 10.1016/j.nimb.2018.12.044
- D. Ranjith Kumar, K.S. Ranjith, L. R. Nivedita, K. Asokan, R. T. Rajendra Kumar, "Swift Heavy Ion Induced Effects on Structural, Optical and Photo-catalytic Properties of Ag Irradiated Vertically Aligned ZnO Nanorod Arrays", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 450, 95–99, (2019). DOI: 10.1016/j.nimb.2018.03.015
- L. R. Nivedita, P. Manivel, R. Pandian, S. Murugesan, N. A. Morley, K. Asokan, R. T. Rajendra Kumar, "Enhancement of magnetostrictive properties of Galfenol thin films", *Journal of Magnetism and Magnetic Materials*, 451, 300–304, (2018). DOI: 10.1016/j.jmmm.2017.11.030
- D. Ranjith Kumar, K. S. Ranjith, L. R. Nivedita, R. T. Rajendra Kumar, "Effect of Sm Doping on the Structural, Optical and Magnetic Properties of Vertically Aligned ZnO Nanorod Arrays", *Journal of Rare Earths*, 35 (10), 1002, (2017). DOI: 10.1016/S1002-0721(17)61005-6
- K. S. Ranjith, L. R. Nivedita, K. Asokan, K. Satheesh, R. Pandian, M. Kamruddin, D. K. Avasthi, and R. T. Rajendra Kumar, "Robust water repellent ZnO nanorod array by Swift Heavy Ion Irradiation: Effect of Electronic Excitation Induced Local Chemical State Modification", *Scientific Reports*, 7, 3251, (2017)¹. DOI: 10.1038/s41598-017-03313-8
- 8. L. R. Nivedita, Ramanathaswamy Pandian, S. Murugesan, K. Asokan, R.T. Rajendra Kumar, "Phase evolution and magnetic properties of DC sputtered Fe-Ga (Galfenol) thin films with growth temperatures", *Journal of Alloys and Compounds*, 704, 420 – 424, (2017). DOI: 10.1016/j.jallcom.2017.01.276
- L. R. Nivedita, V. V. Siva Kumar, K. Asokan, R. T. Rajendrakumar, "Growth and Magnetic Properties of RF Sputtered Fe-Ga Thin Films", *Materials Research*, 18(5), 946-952, (2015). DOI: 10.1590/1516-1439.349014

¹ Both the first and second authors have made equal contributions in conducting the experiments, characterizations and writing the manuscript.

10. V. Vignesh, L. R. Nivedita, R. Nirmala, R. T. Rajendrakumar, R. Navamathan, "Deposition and Characterization of Cuprous Oxide Thin Films by Direct Current Magnetron Sputtering", Science, Engineering and Medicine, 7(11), 990-994, (2015). DOI: Advanced 10.1166/asem.2015.1801

Publications in Pipeline / Under Review

- 1. L. R. Nivedita, K. S. Ranjith, P. Manoravi, M. Joseph, R. Pandian, Nicola A. Morley, V. Raghavendra Reddy, K. Asokan, R. T. Rajendrakumar, "Laser power density induced tunable magnetic properties of Galfenol (FeGa) thin films by Pulsed Laser Deposition" (Submitted)
- 2. M. R. Kumar, L. R. Nivedita, M. A. Semkin, F. Bibi Mary, D. Sathish Chander, J. Sophia Ponraj "Structural and photoluminescence studies of Eu3+ and Yb3+ doped CdS nanoparticles prepared by precipitation method" (Submitted)
- 3. L.R. Nivedita, K.S. Ranjith, K. Asokan, R. T. Rajendra Kumar, "Oxygen ion irradiation induced magnetic property tuning in FeGa (Galfenol) thin films" (in pipeline)

Book Chapter

1. F. Bibi Mary, J. S. Ponraj, L.R. Nivedita, M. R. Kumar, D. Sathish Chander, "Introduction: MXene -A novel two-dimensional material: Preparation, properties, and applications" (Book Chapter -MXene Filled Polymer Nanocomposites, CRC Press) (In Press) (2021)

ORAL AND POSTER PRESENTATIONS

Co-authored the presentation at the Campus of Undergraduate Research Initiatives (COURI) symposium 2019 at UTEP

Effect of Processing Conditions on the Structure, Morphology and Electrical Properties of Nanocrystalline Niobium Thin Films

University of Texas at El Paso (UTEP), USA | August 2019

Presented at the 4rth International Conference on Nano Structuring by Ion Beam (ICNIB 2017)

Tailoring the magnetic properties of FeGa (Galfenol) thin films by 100 MeV Oxygen ion irradiation Devi Ahilya University, Indore, India | October 2017.

Presented at the International Conference on Advanced Materials Science & Technology (ICAMST 2017)

Influence of growth temperature on the magnetic and structural properties of FeGa thin films Bannari Amman Institute of Technology, Sathyamangalam, India | August 2017.

Presented at the International Conference on Nano for Energy and Water (NEW 2017)

Ni-Zn Ferrite/Graphene Oxide Composites as Effective As & Pb Adsorbent for Water University of Petroleum and Energy Studies (UPES), Dehradun, India | February 2017.

Presented at the International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM 2016)

Influence of Ar Partial Pressure on the Magnetic Properties of DC Sputtered FeGa Alloy Thin Films Indian Institute of Science Bangalore, India | December 2016.

Presented at the International Conference on Materials for Advanced Technologies (ICMAT 2015 & IUMRS-ICA 2015), Suntec Singapore

Electrical and Magnetic Behaviour of Ni-Zn Ferrite/Graphene Oxide Composites Materials Research Society, Singapore | July 2015.

Presented at the International Conference on Magnetic Materials and Applications **(ICMAGMA 2014)**

Synthesis and Magnetic Properties of Solvothermal Synthesized Ni-Zn Ferrites: Photocatalytic Studies in Visible Light

Pondicherry University, India | September 2014.

Presented at the International Conference on "Chemistry – Frontiers and Challenges."

Substrate effects on the Structural, Optical and Magnetic Properties of Fe Based Thin Films Prepared by RF Magnetron Sputtering

PSGR Krishnammal College for Women, Coimbatore | February 2014

Presented at the National Conference on Recent Advances in Magnetic Materials & Applications (MAGMA 2010)

Effect of Substitution of Sn on the Structural and Magnetic Properties of $SmCo_{6.8-x}Sn_xZr_{0.2}$ (x = 0.1 & 0.3) Nanostructured Metastable Alloys

Thiagarajar College of Engineering, Madurai | January 2010.

EXHIBITIONS ATTENDED

I3 Expo – National Level exhibition on Ideas, Inventions and Innovations | September 2013

Presented a working model for purification of water by dye degradation using ZnO nanorod coated glass tubings.

WORKSHOPS ORGANIZED

UTEP-EURO one-day workshop | March 2019

Organized and conducted the **UTEP-EURO one-day workshop** on Materials, Biomaterials & Smart Sensors/Transportation at University of Texas at El Paso on March 8th, 2019.

TRAINING AND WORKSHOPS ATTENDED

Indian Institute of Science Education and Research (IISER), Pune | November 2017

Participated in the "Women in Science Journalism" workshop, organized by IISER, Pune, and Newton – Bhabha funds.

Bharathiar University, Coimbatore | April 2016

Participated in the "Materials Studio" training.

Bharathiar University, Coimbatore | September 2014

Participated in the "Immobilization of Enzymes with Nanomaterials for Industrial Applications" training course.

PSG Institute of Advanced Studies, Coimbatore | October 2013

Attended a two-day workshop on "Nanofabrication Technologies – 2013". The Indian Nanoelectronics Users Program, Indian Institute of Technology, Bombay and PSG Institute of Advanced studies organized this event.

SKILLS & COLLABORATIONS

Material Synthesis – Physical methods:	Material Synthesis – Chemical methods:
PLD, Sputtering, evaporation, e-beam	sol-gel, hydro/solvothermal, coprecipitation, CVD

Material Characterization

SEM, AFM, XRD, UV-NIR spectroscopy, spectroscopic ellipsometry, contact angle measurement system, VSM, MOKE, four probe for electrical property measurement, carrier mobility and concentration by hall measurement system

Software's handling for Data Interpretation/Coding

ORIGIN PRO (Plotting graphs), SRIM/TRIM (interaction of ions with matter), C++, Python, Geant4 (simulation toolkit basics – continues to explore)

Active Collaborations

IUAC, New Delhi; UGC-DAE CSR, Indore; IGCAR, Kalpakkam; DMRL, Hyderabad and University of Sheffield, U.K.

ACADEMIC SERVICE

American Physical Society (APS) | Early career member | 2019, 2020, 2021

Magnetic Society of India (MSI) | Life Member

Actively participates in the conferences organized by MSI and in the interactions during the general body meeting of MSI, conducted at the venues of the International Conference on Magnetic Materials and Applications (ICMAGMA).

Solar Energy, a peer-reviewed journal from Elsevier Publications – Reviewer | 2018, 2020

Journal of Magnetism and Magnetic Materials (JMMM), a peer-reviewed journal from Elsevier Publications – Reviewer | 2020

Innovation in Science Pursuit for Inspired Research Science Camp – Invited Delegate | December 2017

Program launched by the Indian Union government's Department of Science and Technology. Interacted with high school students as an invited delegate to attract them to follow advanced studies and research towards careers in science, technology, engineering, and math fields.

Vasan Institute of Ophthalmology and Research – External Examiner | March 2016 & March 2017

Conducted and supervised the semester laboratory examination as the external examiner and conducted viva – voce examination.

Institute of Physics – Associate Member | 2014 – 2016

COMMUNITY SERVICE

Kerala Floods "Kaikorth Kannur": Volunteer | August 2018

Delivered food and other necessary amenities to the people affected by floods in the city of Kannur.

Art of Living: Volunteer | 2005 – Present

Responsible for creating awareness about education and sanitation in rural villages in India.

National Cadet Corps - Cadet Under Officer | July 2006 - March 2008

Part of the youth wing of Armed forces during my undergraduate studies. Attended training camps at many places in India and was part of constructing housing, roads, and sanitation. Organized and led cadets from the colleges affiliated to Kannur Battalion in awareness marches and meetings about women empowerment and HIV/AIDS prevention.

CanKids...KidsCan | 2012

Donated my hair to kids with cancer.

The Organisation for Industrial, Spiritual and Cultural Advancement (OISCA) – International: Volunteer | 2003 – 2008, 2020

Helped to organize workshops in local schools and colleges for creating awareness about the importance of preserving local vegetation and crops. Also, I was a member of the team that planted local tree saplings for afforestation. Currently, part of the women's forum, Kannur

Nivedita L. Raveendran 16/10/2021