



SRI GURU GOBIND SINGH COLLEGE

**(Co-educational, Affiliated to Panjab University, Chandigarh)
Sector-26, Chandigarh -160019. (0172) 2792754, Telefax: (0172) 2790312**

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Nature of the activity	Page Number in this document or link
1.	Student Training	Cybrain software solutions, Distt Kangra, Himachal Pradesh	Ankit Pant	2021-22	Internship	18
2.	Student Training	IT Mastertech, 51-A, Shankar Colony Ambala	Divya Verma	2021-22	Internship	19
3.	Student Training	Mtechlive, Phase VIII, Industrial Area, Mohali	Gurtej Singh	2021-22	Internship	20
4.	Student Training	Code Insects, Phase VIII, Industrial Area, Mohali	Harish Tiwari	2021-22	Internship	21
5.	Student Training	CS Soft Solutions (I) Pvt., Ltd. Phase VIII-A, Mohali	Harmanjeet Kaur	2021-22	Internship	22
6.	Student Training	Oops InfoSolutions Pvt. Ltd., Sector 34-A, Chandigarh	Harshvardhan	2021-22	Internship	23
7.	Student Training	CS Soft Solutions (I) Pvt., Ltd. Phase VIII-A, Mohali	Jyoti Bala	2021-22	Internship	24
8.	Student Training	CS Soft Solutions (I) Pvt., Ltd. Phase VIII-A, Mohali	Kajal Saini	2021-22	Internship	25
9.	Student Training	Mysense Technologies, Sector 75, Mohali	Kartik Kalia	2021-22	Internship	26
10.	Student Training	Think Next Technologies, Phase IX, Mohali	Komal Mehra	2021-22	Internship	27
11.	Student Training	Oops InfoSolutions Pvt. Ltd., Sector 34-A, Chandigarh	Komal Preet	2021-22	Internship	28

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Nature of the activity	Page Number in this document or link
12	Student Training	Live Deftsoft Informatics Pvt. Ltd., Phase VIII-A, Mohali	Prateek Neoliya	2021-22	Internship	29
13	Student Training	ABACA Systems Private Limited, Phase VIII-B, Mohali	Raghav Moudgill	2021-22	Internship	30
14	Student Training	Visual Media Academy, Sector 34-A, Chandigarh	Rishwant Kaur	2021-22	Internship	31
15	Student Training	IT Mastertech, 51-A, Shankar Colony Ambala	Sakshi Devi	2021-22	Internship	32
16	Student Training	TECHNIANS Softech Pvt.Ltd., Tech Park, Gurgaon	Sanjana	2021-22	Internship	34
17	Student Training	Think Next Technologies, Phase IX, Mohali	Sharanjeet Kaur	2021-22	Internship	35
18	Student Training	Think Next Technologies, Phase IX, Mohali	Shivani Manhas	2021-22	Internship	36
19	Student Training	National Institute of Computer Technologies, Sector 30-A, Chandigarh	Shubham Sharma	2021-22	Internship	37
20	Student Training	Info Wiz A Software Solution, Sector 34-A, Chandigarh	Sonali Dhiman	2021-22	Internship	38
21	Student Training	Bebo Technical Education Services Pvt. Ltd., Sector 34-A, Chandigarh	Yash madaan	2021-22	Internship	39

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Nature of the activity	Page Number in this document or link
22	Student Training	Origin Life health care solutins and Research centre LLP,Sector - 38 C, Chandigarh	Anshita Tiwari	2021-22	Internship	40
23	Student Training	ABCA Biosolutions Pvt. Ltd., Phase-7, Mohali	Shivangi Rai	2021-22	Internship	41
24	Student Training	Orbit Biotech, Industrial area, Phase-7, Mohali	Navdeep Kaur	2021-22	Internship	42
25	Student Training	Acentric biotech & Research Laboratory, Industrial area, Phase-7, Mohali	Sada Ansari	2021-22	Internship	43
26	Student Training	Origin Life health care solutins and Research centre LLP,Sector - 38 C, Chandigarh	Akshit Dhiman	2021-22	Internship	44
27	Student Training	Origin Life health care solutins and Research centre LLP,Sector - 38 C, Chandigarh	Anshul	2021-22	Internship	45
28	Student Training	Orbit Biotech, Industrial area, Phase-7, Mohali	Husanpreet Kaur	2021-22	Internship	46
29	Student Training	Origin Life health care solutins and Research centre LLP,Sector - 38 C, Chandigarh	Kajal	2021-22	Internship	47
30	Student Training	Acentric biotech & Research Laboratory, Industrial area, Phase-7, Mohali	Navjot Singh	2021-22	Internship	48

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Year of collaboration	Nature of the activity	Page Number in this document or link
31.	Research Collaboration	Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala 133207, Haryana, India; Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala 133207, Haryana, India; Department of Chemistry, Government College of Engineering, Keonjhar-758002, Odisha, India; Division of Pathology, ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly-243 122, Uttar Pradesh, India; Department of Biotechnology, K.L. Mehta Dayanand College for Women, Faridabad; Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala 133207, Haryana, India;	Dr Varruchi Sharma	2021-22	Research Paper	https://jebas.org/ojs/index.php/jebas/article/view/316

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32	Research Collaboration	Department of Molecular Biology, Biotechnology & Bioinformatics, College of Basic Sciences & Humanities, CCS Haryana Agricultural University, Hisar 125004, India; Department of Public Health Dentistry, Government Dental College, Shimla; Department of Biotechnology, Layalpur Khalsa College, Jalandhar, Punjab, India; Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, Haryana, 133207, India	Dr Varruchi Sharma	2021-22	Research Paper	https://biointerfaceresearch.com/wp-content/uploads/2022/03/BRIAC132.104.pdf
33	Research Collaboration	Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, Haryana, 133207, India; Department of Molecular Biology, Biotechnology and Bioinformatics, College of Basic Sciences and Humanities, CCS Haryana Agriculture University, Hisar, 125001, India	Dr Varruchi Sharma	2021-22	Research Paper	https://www.degruyter.com/document/doi/10.1515/psr-2018-0164/html

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34.	Research Collaboration	Department of Biotechnology, Maharishi Markandeshwar, Ambala, Haryana, India; Department of Chemistry, Career Point University, Hamirpur, Himachal Pradesh, India; Department of Biotechnology, Maharishi Markandeshwar, Ambala, Haryana, India; Institute of Plant Sciences, Agricultural Research Organization (ARO), Rishon LeZion, Israel; Department of Biotechnology, Maharishi Markandeshwar, Ambala, Haryana, India	Dr Varruchi Sharma	2021-22	Research Paper	https://iubmb.onlinelibrary.wiley.com/doi/abs/10.1002/bab.2265
35.	Research Collaboration	Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala Haryana, 133207, India;	Dr Varruchi Sharma	2021-22	Research Paper	https://www.sciencedirect.com/science/article/abs/pii/S1044579X20301619
36.	Research Collaboration	Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala Haryana, 133207, India; Recombinetics, Egan, Minnesota, United States; Department of Anatomy, MMIMSR Maharishi	Dr Varruchi Sharma	2021-22	Research Paper	https://www.eurekaselect.com/article/108068

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		Markandeshwar (Deemed to be University), Mullana-Ambala Haryana, 133207, India; Department of Microbiology & Immunology, Miller School of Medicine, University of Miami, Florida, United States				
37.	Research Collaboration	Department of Chemistry, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala-133 207 (Haryana), India	Dr Manik Gupta	2021-22	Research Paper	Synthesis and Biochemical Characterization of Iron Oxide Nanoparticles – Agri Bio Research Publishers (agribiop.com)

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38	Research Collaboration	<p>QIS College of Engineering and Technology, Vengamukkapalem, Ongole - 523 272, India</p> <p>2QIS Degree and PG College, Vengamukkapalem, Ongole - 523 272, India</p> <p>3Department of Computer Science Engineering, CT Institute of Engineering, Management and Technology, Jalandhar, Punjab, India</p> <p>4PG &Research Department of Physics, Alagappa Govt Arts College, Karaikudi - 630 003, India</p> <p>5Department of Applied Sciences, CT Institute of Engineering, Management and Technology, Shahpur Campus Jalandhar, Punjab, India</p> <p>6Department of Chemistry, Sri Guru Gobind Singh College, Sector 26, Chandigarh 160019, India</p>	Dr Kirtanjot Kaur	2021-22	Research Paper	gnest_04020_published.pdf
39	Research Collaboration	Department of Computer Science, Desh Bhagat University Mandi, Gobindgarh, Punjab, India	Ujwala Zade	2021-22	Research Paper	http://www.thedesignengineering.com/index.php/DE/article/view/8466

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40.	Research Collaboration	Department of Computer Science, Desh Bhagat University Mandi, Gobindgarh, Punjab, India	Ujwala Zade	2021-22	Research Paper	https://www.nveo.org/index.php/journal/article/view/4174
41.	Research Collaboration	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	Dr Sanjeev Kumar	2021-22	Research Paper	https://www.cambridge.org/core/journals/bulletin-of-the-australian-mathematical-society/article/abs/note-on-girstmairs-irreducibility-criterion/D6E6DD5C629124C8FBBA70A3603F9DE9
42.	Research Collaboration	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	Dr Sanjeev Kumar	2021-22	Research Paper	https://www.tandfonline.com/doi/full/10.1080/00927872.2022.2069792
43.	Research Collaboration	Physics Department, Faculty of Science, King Abdulaziz University, PO Box 80203, Jeddah 21589, Saudi Arabia and Department of Physics, Panjab University, Chandigarh 160014, India.	Dr Ranber Singh	2021-22	Research Paper	iopscience.iop.org/article/10.1088/1361-648X/ac0572
44.	Research Collaboration	Physics Department, Faculty of Science, King Abdulaziz University, P. O. Box 80203, Jeddah 21589, Saudi Arabia	Dr Ranber Singh	2021-22	Research Paper	https://pubs.rsc.org/en/content/articlelanding/2022/CP/D1CP03988A
45.	Research Collaboration	Mechanical Engineering Department, NIT Hamirpur, Himachal Pradesh-177005, India, Department of Mechanical engineering, UIET, Panjab University, Chandigarh-	Dr Saroj Bala	2021-22	Research Paper	www.tribology.rs/journals/2021/2021-4/2021-4-13.html

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		160014, India, Mechanical Engineering Department, National Institute of Technology Srinagar, Srinagar-190006, India				
46.	Research Collaboration	Skill faculty of engineering and technology, Shri Vishwakarma Skill University, Dudhola, Palwal, Haryana-121102 (India), University Institute of Engineering and Technology, Panjab University, sector-14, Chandigarh, India	Dr Saroj Bala	2021-22	Research Paper	iopscience.iop.org/article/10.1088/1757-899X/1225/1/012007
47.	Research Collaboration	University Institute of Engineering and Technology, Panjab University, sector-14, Chandigarh, India	Dr Saroj Bala	2021-22	Research Paper	www.sciencedirect.com/science/article/pii/S2213956721002334

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48	Research Collaboration	<p>Department of Human Genetics and Molecular Medicine, School of Health Sciences, Central University of Punjab, Bathinda, India</p> <p>Department of Zoology, Sri Guru Gobind Singh College, Sector 26, Chandigarh, India</p> <p>Department of Pharmacology, Central University of Punjab, Bathinda, India</p> <p>Department of Zoology, Mata Gujri College, Fatehgarh Sahib, Punjab, India</p> <p>Department of Biochemistry, School of Basic Sciences, Central University of Punjab, Bathinda, India</p> <p>Department of Medical Lab Technology, University Institute of Applied Health Sciences, Chandigarh University, Mohali, India</p> <p>Department of Internal Medicine, Texas Tech University Health Sciences Center, Lubbock, TX, 79430, USA</p> <p>Department of Pharmacology and</p>	Dr Inderpal Singh Sidhu	2021-22	Research Paper	https://www.sciencedirect.com/science/article/abs/pii/S0891584922001228?via%3Dihub

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		Neuroscience, Texas Tech University Health Sciences Center, Lubbock, TX, 79430, USA Department of Public Health, Graduate School of Biomedical Sciences, Texas Tech University Health Sciences Center, Lubbock, TX, 79430, USA Department of Neurology, Texas Tech University Health Sciences Center, Lubbock, TX, 79430, USA Department of Speech, Language, and Hearing Sciences, Texas Tech University Health Sciences Center, Lubbock, TX, 79430, USA				

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49.	Research Collaboration	Indian Institute of Science Education and Research Mohali	Dr Ruchira Sen	2021-22	Research Paper	https://link.springer.com/article/10.1007/s00248-021-01798-5
50.	Research Collaboration	Indian Institute of Science Education and Research Mohali	Dr Ruchira Sen	2021-22	Research Paper	https://link.springer.com/article/10.1007/s00114-022-01801-0
51.	Research Collaboration	Department of Zoology, Panjab University, Chandigarh, UT, India. Civil Hospital, Mandi-Gobindgarh, Fatehgarh Sahib District, Punjab, India	Dr Reshu Mandal	2021-22	Research Paper	https://link.springer.com/article/10.1007/s10653-021-01068-w
52.	Research Collaboration	Indian Institute of Science Education and Research Mohali	Dr Ruchira Sen	2021-22	Research Grant	49
53.	Research Collaboration	Indian Institute of Science Education and Research Mohali	Dr Soma De	2021-22	Research Grant	51
54.	Book Collaboration	Department of Chemistry, GBN Senior Secondary School, Faridabad	Dr Pushpinder Kaur	2021-22	Book chapter	53

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55.	Book Collaboration	Chemical Technology Division, cSIR-IHBT, Palampur, 176061, H.P. India Academy of Scientific & Innovative Research (AcSIR), Ghaziabad, 201002 India Head, Department of Chemistry, GBN Senior Secondary School, Sector-21D, Faridabad	Dr Pushpinder Kaur	2021-22	Book chapter	60
56.	Book Collaboration	Department of Chemistry, Sri Sai University, Palampur, India Department of Applied Science, CTIEMT, C.T. Institute of Engineering, Management and technology, Jalandhar, India, Department of Biotechnology, CTIPS, C.T. Institute of Engineering, Maagement and Technology, Jalandhart, India	Dr Klrtanjot Kaur	2021-22	Book chapter	65
57.	Book Collaboration	Department of Mechanical Engineering, UIET, Panjab University, Chandigarh, Punjab, India; Department of Mechanical Engineering, UIET, Panjab University Regional Centre, Hoshiarpur, Punjab, India	Dr Saroj Bala	2021-22	Book chapter	67

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58	Book Collaboration	Department of Medical Lab Technology, University Institute of Applied Health Sciences, Chandigarh University, Mohali, Punjab, India; Department of Pharmacology, Central University of Punjab, Bathinda, India; Department of Internal Medicine, Texas Tech University Health Sciences Center, Lubbock, TX,	Dr Inderpal Singh Sidhu	2021-22	Book chapter	73
59	Member Peer Review Committee of Dialog (A peer reviewed, biannual International Journal)	Dept of English and Cultural Studies, Panjab University, Chandigarh.	Dr Navjot Kaur	2021-22	Research Collaboration	74
60	Advisor for International Journal of English Language and Literature: Consonance	D.A.V College, Chandigarh Road, Hoshiarpur-146001.	Dr Navjot Kaur	2021-22	Research Collaboration	75
61	Joint PhD Guidance	UIET, Panjab University, Chandigarh	Dr Saroj Bala	2021-22	Research Collaboration	76

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62.	Joint PhD Guidance	Department of Physics, Panjab University, Chandigarh	Dr Ranber Singh	2021-22	Research Collaboration	77
63.	Joint PhD Guidance	Department of Zoology, Panjab University, Chandigarh	Dr Kawalpreet Kaur	2021-22	Research Collaboration	78
64.	Joint PhD Guidance	Department of Public Administration, Panjab University, Chandigarh	Dr Sandeep Kaur	2021-22	Research Collaboration	80
65.	Joint PhD Guidance	Department of Computer Science & Applications, Panjab University Chandigarh	Dr Preet Kanwal	2021-22	Research Collaboration	81
66.	Joint PhD Guidance	Department of Biotechnology, Panjab University, Chandigarh	Dr Sonia Chaman	2021-22	Research Collaboration	82
67.	Joint PhD Guidance	Lovely Professional University	Dr Jasvinder Singh Bhatti	2021-22	Research Collaboration	83
68.	Joint PhD Guidance	Centre for Microbial Biotechnology, Panjab University, Chandigarh	Dr Jasvinder Singh Bhatti	2021-22	Research Collaboration	84
69.	Joint PhD Guidance	Punjabi University, Patiala	Dr Surjit Singh	2021-22	Research Collaboration	85



Cybrain Software Solutions Private Limited

An ISO 9001:2008 Certified Company

CIN - U72900HP2012PTC000160

Ref. No.....

Dated 24/06/2021

To Whom It May Concern

This is to certify that **Mr. Ankit Pant S/O Shri. JC Pant** student of SGGGS College, Sector 26 of M.Sc.(IT) having Roll No. 21817 has undergone industrial training in PHP Technology project from **1st Feb 2021** to **23rd June 2021** at **Cybrain Software Solutions Pvt. Ltd.** Due to current pandemic situation, he was allowed to work from home. During the training with us, he was found inquisitive and hardworking in performing all his duties. We wish him every success in future.

Sincerely,

Authority Signatory

Cybrain Software Solutions Pvt. Ltd.

Registered Office
VPO Bundla Tea Estate
Palampur, Distt Kangra,
H.P. 176061
Ph: 0172-4623958

Corporate Office
E - 48, Industrial Area
Phase VIII, SAS Nagar
Mohali, Punjab 160059
Ph: 0172-5053958, 4613958

Branch Office
Site No. 1247, IIIrd Block
BEL Layout, Vidyananyapura
Bengaluru -7, Karnataka
Ph: 080-41131015

E-mail: info@cybrain.co.in Website: www.cybersolutionindia.com



TO WHOMSOEVER IT MAY CONCERN

Date: 27 February 2021

This is to certify that Miss. Divya Verma D/O of Mr. Ram Krishan Student of SGGGS Sector-26 of M.Sc (IT) Roll no. 17916000279 has undergone a industrial training in Digital Marketing from ITMastertech from February 2021 to June 2021 on Digital Marketing. During the lockdown period she allowed to work from home and During this period she Handle clients project based on Social Media Marketing. During her training her performance was excellent.

For ITMastertech

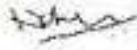
Divya
Proprietor

Warm regards,
Vikas Sharma

Head,
ITMastertech (AMBALA)

To Whomsoever It May Concern

This is to certify that **"Mr. Gurraj Singh"** of Sri Guru Gobind Singh College, Chandigarh bearing Roll No. 21818, is Undergoing Training Since April 1st, 2021 to till Date at our organization to fulfill the requirements for the award of degree of **Master of Science in Information Technology**. During his tenure with us we found him sincere and hard working.



Regards,

Techlive Solutions

Hewlett Packard Enterprise Education





Call: +91 97806 14619
www.codeinsects.com

CI/HR/03-10/02

Date: 25st June 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Harish Tiwari S/O Nanda Ballabh Tiwari** a student of **M.SC (IT) of SRI GURU GOBIND SINGH COLLEGE RoIINo 21816** has undergone Industrial training in PHP From 1st March-21 to 31st Aug-21. During the lockdown period he allowed work from Home and he developed a project "**Ecommerce Platform**" during his training his conduct was found to be EXCELLENT.

Thanking You
For Code Insects IT. Pvt. Ltd.

Sohit Shukla (H.R. Head)



CS Soft Solutions (I) Pvt. Ltd.

An ISO 9001 : 2015 & ISO / IEC 27001 : 2013 Certified Company

Ref. No.: CS/PY/MAR 21/6m/405

Dated : 3.11.05/2021

TO,

THE TRAINING & PLACEMENT OFFICER

SRI GURU GOBIND SINGH 26

CHD (PANTAB UNIVERSITY)

SUBJECT: - Confirmation for *Six Weeks/Months*

Industrial Training for B.E / B.Tech / M.E / M.Tech / MCA / BCA / M.Sc / B.Sc / Diploma

Dear Sir / Madam,

CS Soft Solutions (I) Pvt. Ltd. Company has a bright perspective of become professionally responsive to make students equipped with upcoming technologies to match fast growing.

Requirement of industry.

In response to your Ref. No. CS/PY/MAR 21/6m/405

I want to certify that HARMANJEET KAUR Student of M.Sc (IT) under University Roll No. 21812 is permitted to do His / Her Training In PYTHON starting from MAR 2021.

CS SOFT SOLUTIONS (I) PVT. LTD.
E-300, Indl. Area, Phase 8-A
Mohali
TRAINING COORDINATOR

Corporate Address :

CS SOFT SOLUTIONS (I) PVT. LTD., E-300, Indl. Area, Phase 8-A, Mohali - 160055, Punjab, Ph. : 9501107986, 9815701003
Email : cs@cssoftsolutions.com | Website : www.cssoftsolutions.com

Head Office :

CS INFOTECH, SCO 2451, 11nd Floor, Sector 22-C, Chandigarh, Contact Number : 0172-4017707, 0172-5007164, +91-9815701003
Email : cs@cssoftsolutions.com | Website : www.csknowledgehub.com

Ref No:- CGF/171/2021

Date : June 30, 2021

Certificate of Completion of Training

It is hereby certified that **Harshvardhan** S/O Chandarkant Sharma, College Roll Number 21810 of Msc(IT), Panjab University, Chandigarh has successfully completed 6 months training in Php Technology started on 15th March 2021 to 30th June 2021 from our esteemed organization under the guidance of Mr. Manjit Singh. He developed project titled 'NGO' in Php Technology.

We wish for his bright future.



Yours Sincerely,

Name : Manjit Singh

Designation : Director

Email ID(Mandatory): info@oopsinfosolution.com

Contact No. (Mandatory): 985522244,985522215,01725009244



CS Soft Solutions (I) Pvt. Ltd.

An ISO 9001 : 2015 & ISO / IEC 27001 : 2013 Certified Company

Ref. No.: CS/PT/67/FEB21/2093

Dated: 23/06/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that JYOTI BALA student of SRI GURU GOBIND SINGH COLLEGE SECTOR-26 CHANDIGARH (PUNJAB UNIVERSITY) of M.Sc(IT) University Roll No.66627 and college Roll No. 21813 is undergoing industrial training in our firm CS SOFT SOLUTIONS INDIA PVT. LTD from FEB 2021 to JUNE 2021 in PHP.

During the training She developed a project entitled CAREHUB.

During the training her conduct was found to be EXCELLENT.

CS SOFT SOLUTIONS (I) PVT. LTD.
E-309, Indl. Area, Phase 8-A
Mohali
TRAINING COORDINATOR

Corporate Address :

CS SOFT SOLUTIONS (I) PVT. LTD., E-309, Indl. Area, Phase 8-A, Mohali - 160055, Punjab, Ph. : 9501107986, 9815701003
Email : cs@cssoftsolutions.com | Website : www.cssoftsolutions.com

Head Office :

CS INFOTECH, SCO 2451, IInd Floor, Sector 22-C, Chandigarh, Contact Number : 0172-4017707, 0172-5007164, +91-9815701003
Email : cs@cssoftsolutions.com | Website : www.csknowledgehub.com



CS Soft Solutions (I) Pvt. Ltd.

An ISO 9001 : 2015 & ISO / IEC 27001 : 2013 Certified Company

Ref. No.: CS/PT/677/2021/3080

Dated: 16/05/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **KAJAL SAINI** student of **SRI GURU GOBIND SINGH COLLEGE SECTOR-26 CHANDIGARH (PUNJAB UNIVERSITY)** of **M.Sc(IT)** Roll No. **66628** is undergoing industrial training in our firm **CS SOFT SOLUTIONS INDIA PVT. LTD** from **JAN 2021** to **JUNE 2021** in **PHP**.

During the training She developed a project entitled **CAREHUB**.

During the training her conduct was found to be **EXCELLENT**.

CS SOFT SOLUTIONS (I) PVT. LTD.
E-300, Indl. Area, Phase 8-A,
Mohali.

TRAINING COORDINATOR

Corporate Address :

CS SOFT SOLUTIONS (I) PVT. LTD., E-300, Indl. Area, Phase 8-A, Mohali - 160055, Punjab, Ph. : 9501107986, 9815701003
Email : cs@cssoftsolutions.com | **Website** : www.cssoftsolutions.com

Head Office :

CS INFOTECH, SCO 2451, IInd Floor, Sector 22-C, Chandigarh, Contact Number : 0172-4017707, 0172-5007164, +91-9815701003
Email : cs@cssoftsolutions.com | **Website** : www.csknowledgehub.com



SR. NO: **MST/HR/ 144/21**

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Kartik Kalia S/O Mr. Deep Kumar, student of SGGGS Sector-26 of M.Sc. (IT) College Roll No 21819 has been working with us as Mem Stack Developer from January 2021 to June 2021 in Mysense Technologies under the supervision of our company. He has taken proper care and show at most sincerity during his working period.

We further certify that this training is up to company expectation.

For Mysense Technologies

Authorized Signatory

(Signature by HR)



Scan and verify your Certificate
Certificate ID:570123
Ref.No. TNT/C-21/4993



Certificate

Provisional

This Certificate do hereby recognizes that

Komal Mehra D/o Vijay Kumar

has successfully completed Industrial Training Program from

01st March 2021 to 10th June 2021

in Digital Marketing Grade A

For ThinkNEXT Technologies Pvt. Ltd.

Authorized Signatory

Member Training Division

For ThinkNEXT Technologies Pvt. Ltd.

Director



Oops InfoSolutions

An ISO 9001:2015 CERTIFIED

Oops InfoSolutions Pvt. Ltd.

S.C.O. 112-113, 2nd Floor,
Sector 34-A, Chandigarh
Ph : 0172-5009244, Mobile : 985522244
Website : www.oopsinfosolution.com
e-mail : info@oopsinfosolution.com

Ref No:- CGF/170/2021

Date : June 24, 2021

Certificate of Training

This is to confirm that Ms. **Komal Preet** D/O Rashpal Singh, Roll no – **21803**, M.Sc. (IT), Panjab University, Chandigarh is completing her 6 months training in Javascript and NodeJS Technology started on 15th March 2021 to Till date from our esteemed organization under the guidance of Mr. Manjit Singh. She developed project titled 'E-Commerce' in Javascript and NodeJS Technology.



Yours Sincerely,

Name : Manjit Singh

Designation : Director

Email ID(Mandatory): info@oopsinfosolution.com

Contact No. (Mandatory): 985522244,985522215,01725009244



Live Deftsoft Informatics Pvt. Ltd.
www.deftsoft.com

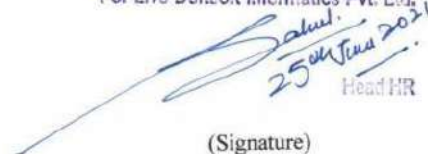
Industrial Training Certificate

TO WHOMSOEVER IT MAY CONCERN

Dated: 25.06.21

This is to verify that Mr. PRATEEK NEOLIYA S/o Sh. Dinesh Chandra Student of SGGGS COLLEGE SECTOR 26 CHANDIGARH of M.Sc (I.T) Roll No. 21804 has undergone industrial training of 6 months in MERN STACK DEVELOPMENT under the MOBILE DEPARTMENT from March 8th March 2021 until the present.

For Live Deftsoft Informatics Pvt. Ltd.


25th June 2021
Head HR

(Signature)



ERP | IT Consulting | Custom Software Development

Date: June 16, 2021

Training Certificate

This is to confirm that **Raghav Moudgill** S/O Mr. Mukesh Kumar, Student of Panjab University, **Masters of Science (Information Technology, Batch 2019- 2021)** having **Roll No 21820**, is completing training of **4th Semester** From April 01st, 2021 To Till Date at **Abaca Systems Private Limited**.

FOR Abaca Systems Private Limited,



Bhavna

Senior HR Executive&TAC

INDIA CORPORATE OFFICE: Abaca Systems (P) Ltd, F-152, Phase 8-B, Industrial Area, Mohali, Punjab - 160055 | Tel: + 91-172-4009561

Chicago | Atlanta | San Francisco | Mohali | Noida | Durban

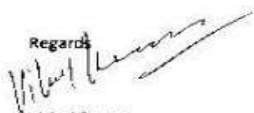
VISUAL MEDIA ACADEMY

TO WHOMSOEVER IT MAY CONCERN

Dated: 24.06.2021

This is to certify that Ms. Rishwant Kaur D/O Sh. Raghvir Singh, Student of SGGGS, Sector 26 of M.Sc. (IT) Class Roll No. 21822 and PU Roll No. 17513002168 has undergone industrial training in Digital Marketing Course from February 2021 to June 2021 on a project of SEO. During the lockdown period she allowed to work from home and she developed a SEO project. During her training her conduct was found to be EXCELLENT.

Regards


Vishal Pawar

Manager

Visual Media Academy

Chandigarh

SCO 114-115, SECTOR 34-A, CHANDIGARH PIN:160022
(O) 0172-4613337, 7696300600
INFO@VISUALMEDIA.CO.IN WWW.VISUALMEDIA.CO.IN

TO WHOMSOEVER IT MAY CONCERN

Date: 25 February 2021

This is to certify that Miss. Sakshi Devi D/O of Mr. Varinder Singh Student of SGGGS Sector-26 of M.Sc (IT) Roll no. 17819002801 has undergone a industrial training in Digital Marketing from ITMastertech from February 2021 to June 2021 on Digital Marketing. During the lockdown period she allowed to work from home and During this period she Handle clients project based on Social Media Marketing. During her training her performance was excellent.

For ITMastertech



Proprietor

Warm regards,
Vikas Sharma

Head,
ITMastertech (AMBALA)



CERTIFICATE OF TRAINING

This is to certify that SAMBHAV JAIN, a student OF DIGITAL DISCOVERY INSTITUTE,
has successfully completed 3 MONTH'S of Training program as a DIGITAL MARKETING.
During 15 MARCH 2021 to 15 JUNE 2021 period of his/her Training program with us,
he/she was found punctual, hardworking and inquisitive.

For SEO Discovery


Partner

Mandeep Singh (Managing Director)



Technians Softech Pvt Ltd

17th June 2021

To Whom It May Concern

This is to certify that **Ms. Sanjana D/O Shri. Satish Kaushik** student of Sri Guru Gobind Singh College of M.Sc. (IT) having Roll No. 21811 has undergone industrial training on **Web Application** project from **1st February 2021** to **17th June 2021** at **Technians Softech Pvt. Ltd.** Due to current pandemic situation, she was allowed to work from home.

During the training with us, she found inquisitive and hard working in performing all her duties.

We wish her every success in future.

Sincerely,

A handwritten signature in black ink is written over a circular stamp. The stamp contains the text "For Technians Softech Pvt. Ltd." at the top and "Authorised Signatory" at the bottom. The signature is written in a cursive style.

Authority Signatory
Technians Softech Pvt. Ltd.

Technians Softech Pvt Ltd

549-550, 5th Floor, Tower-B2, Spaze I Tech Park, Sohna Road, Gurgaon,122018

Phone -0124-4013999

Email: info@technians.com

www.technians.com



Scan and verify your Certificate
Certificate ID:663851
Ref.No. TNT/C-21/4900



ISO Certified



Member of Confederation
of Indian Industry



Certificate

This Certificate do hereby recognizes that

Sharanjeet Kaur D/o S.Santokh Singh

has successfully completed Industrial Training Program from

11th February 2021 to 15th June 2021

in Digital Marketing Grade A

For ThinkNEXT Technologies Pvt. Ltd.


Authorized Signatory

Member Training Division

For ThinkNEXT Technologies Pvt. Ltd.


Director

Director



Easily add text in PDF

Add



ThinkNEXT Technologies Private Limited

ThinkNEXT™
Innovation at every step...
ISO 9001:2015 Certified Company



Scan and verify your Certificate
Certificate ID:602130
Ref.No. TNI/C-21/5023



Certificate

Provisional

This Certificate do hereby recognizes that

Shivani Manhas D/o Rajinderpal Singh

has successfully completed Industrial Training Program from

11th February 2021 to 11th June 2021

in Digital Marketing Grade A

For ThinkNEXT Technologies Pvt. Ltd.

Authorised Signatory

Member Training Division

For ThinkNEXT Technologies Pvt. Ltd.

Director

Director



Corporate Office: S.C.F 113, Phase XI, Mohali (Punjab)

Outstanding 80-90%
 Excellent 60-80%
 Very Good 40-70%
 Good 20-60%
 Satisfactory 0-20%



National Institute of Computer Technology



AN ISO 9001: 2015 CERTIFIED INSTITUTION

NICT, LIONS Club Greater, Bhawan No. 4, Sector 30-A, Chandigarh. 160 030
Phone : 9216081724, 0172-2650139, 7355552581. E-mail : director@nictchd.in

Provisionally Accredited By Ministry of Electronics & Information Technology,
Govt. Of India, For NIELIT 'O' Level Computer Course

Dated: 24ND June, 2021

Ref. NICT15/INDTRNG2021/SGGSC/36459

CERTIFICATE OF TRAINING

This is to certify that "Mr. Shubham Sharma" student of M.Sc. I.T. (4th Semester) Sri Guru Gobind Singh College, Sector- 26, Chandigarh has successfully completed Six Months Project Based Industrial Training in Core and Advanced Java from "March 16, 2021 to June 22, 2021". His overall Performance during the training period was "Good".

(Siddharth Arora)

Head-Industrial Training & Software Development Division



Certificate

Certificate of Training

No. INFOWIZ/6M2021/8963

This is certified that Mr./ Ms. Sonali Dhiman S/D/o. sh. Raj Kumar.

of S.G.G.S Sec-26 has successfully undergone Training Course Python

From Jan, 2021 to May, 2021 During the tenure of the above course, we found him/her

a hardworking & innovative individual.

We wish him/her a very bright and prosperous future


Technical Head




Managing Director



bebo Technical Education Services Pvt. Ltd.

SCO 156-157, 4th Floor, Near Verka Building, Sector 34-A, Chandigarh.
Phone: +91-172-5086508, +91-172-5087508
Email: info@btes.co.in | Website: www.btes.co.in

Date : 01st June 2021

Ref. No. : BTES/TRG./2021/0236

To Whom It May Concern

This is to certify that Mr. Yash Madaan, S/O Sh. Mahesh Kumar Madaan, University Roll No. - 21806, of Shri Guru Gobin Singh College, Sec-26, Chandigarh bearing Reg- ID RCH01190045 is undergoing 6 months Industrial Training in Front End Mean Stack Web Development Technology at our organization from Feb'2021 to July'2021.

He is working on project entitled "COVID-19 Tracker" as on date and his final certificate is still pending.

Best Regards,

for bebo Technical Education Services Pvt. Ltd.

(Authorized Signatory)

Disclaimer: This document / mail is intended solely for the addressee and may contain confidential and privileged information. This is digitally generated document shared via official mail, does not require company stamp or signature. BTES reserves all the rights. Document is shared with genuine watermark, to avoid any unauthorized usage, disclosure or copying of this mail, document or any part thereof is strictly prohibited. In case you have received this communication or document in error or tampered please notify us immediately and destroy all the copies.

(An ISO 9001:2015 Certified Company)
CIN : U80302CH2008PTC031042

ORG/2021/BMGTB -39

Dated: 10/11/2021

CERTIFICATE OF TRAINING EXPERIENCE

This is to certify that **Ms. Anshita Tiwari**, Department of Biotechnology, Sri Guru Gobind Singh College, Sector 26, Chandigarh, has completed the training program on "**Biochemical & Molecular Genetics Techniques and Bioinformatics**" from 04.10.2021 to 10.11.2021. This training program has been designed under the "**Research & Training Program**" at Origin Life Healthcare Solutions and Research Centre LLP, Chandigarh.

She has been trained with the following laboratory works:

Wet Laboratory Work

- Demonstration of Blood Collection Methods
- Isolation & Storage of Serum Samples
- Biochemistry Analysis of Serum/Blood Samples
- Hormone Analysis through Microplate Reader (ELISA)
- Preparation of Stock and Working Solution for DNA Isolation
- DNA Isolation from Whole Blood, Buccal Epithelial Cells.
- Agarose Gel Electrophoresis
- Polymerase Chain Reaction (PCR)
- Restriction Fragment Length Polymorphism (RFLP)

Bioinformatics & Statistical Tools

- Selection of Targeted Gene and Mutation by Bioinformatics Tools (NCBI-BLAST, Ensembl etc.)
- Primer Designing
- Genetic Data Analysis through PLINK and HAPLOVIEW software.

Other activities

Apart from the laboratory work, she has also learned basic of research paper writing and literature review.

She is sincere, honest and hardworking young scholar and bears good moral character.

Origin Life wishes all the success in her future endeavours.


Dr. Pulakes Puri, Ph.D
Founder Director

Origin Life Healthcare Solutions & Research Centre LLP
SCO 181, First Floor, Sector 38 C & D, Chandigarh
1st Floor, Sec. 38 C, Chandigarh



ABCA BIOSOLUTIONS PVT LIMITED

E-110, Industrial Focal Point, Phase 7, S.A.S. Nagar, Mohali, Punjab - 160055

CERTIFICATE

Date : 05/11/2021

Reg. No : ABCA/2021/24

Place : S.A.S. Nagar

Ref. No : ABCA/2021/24/10

This is to Certified That

Dr./ Mr./Ms./ SHIVANGI RAI

The above name of student has completed the course of INDUSTRIAL TRAINING (one month)

From Sept 2021 to Oct 2021

In Abca Research and Development Centre and Obtained The Grade A+ In the Training / Project Period.

Nandini

Branch Manager

A + = Above 85%, A = 84%-71%, B = 70%-56%, C = 55%-40%

Verify Abca Professional Certificate at www.abcabio.com

For Abca Biosolutions Pvt Limited

Rh

(Director)

Orbit Biotech[®]

Estd. 2006

Certificate no.

ZBS/OB/2122/T-169

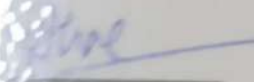
CERTIFICATE

Industrial Training

This is to certify that *Ms. Navdeep Kaur*,
B.Sc. Biotechnology, Sri Guru Gobind Singh
College, Chandigarh has successfully
completed the Biotech Industrial Training
Program on "Forensic Science & DNA
Fingerprinting" at Orbit Biotech for four
weeks.



Celebrating
15th Anniversary


Director, Orbit Biotech

24 Sep 2021

Date of Issue



www.orbitbiotech.com
Certificate
Verification Link



CERTIFICATE OF ACHIEVEMENT



Certificate No. : LB/ABRL/IP/2021
12/02

This is to certify that Ms/Mr/Mrs./Dr. SADA ANSARI

Son/Daughter of SHAMIM ANSARI and Mrs. ANESHA KHATUN

student of B.Sc. BIOTECHNOLOGY (HONOURS), from SUNGS COLLEGE, SEC-26,
CHANDIGARH

has successfully completed his/her Industrial Biotech Training Program for the duration

of 20 days/Month from 28-10-2021 to 16-11-2021 under guidance of Ms. ANSHUL
Mrs. PRIYANKA

Level : SUPREME

Field Name : ALCOHOL FERMENTATION TECHNOLOGY, FORENSIC SCIENCE
GENE N GENOMICS, HORTICULTURE, MYCOLOGY

He/She secured Grade: 'O' (OUTSTANDING)

During the period of his/her training program with us, he/she had been exposed to various discipline of Biotechnology and was found diligent, hardworking and inquisitive.

We wish him/her every success in her/his life and career.

Date of Issue 8-12-2021

Spich

Ms. Shreya Jain
CEO & Founder
Acentric Biotech & Research Laboratory

ORG/2021/BMGTB -38

Dated: 10/11/2021

CERTIFICATE OF TRAINING EXPERIENCE

This is to certify that **Mr. Akshit Dhiman**, Department of Biotechnology, Sri Guru Gobind Singh College, Sector 26, Chandigarh, has completed the training program on "**Biochemical & Molecular Genetics Techniques and Bioinformatics**" from 04.10.2021 to 10.11.2021. This training program has been designed under the "**Research & Training Program**" at Origin Life Healthcare Solutions and Research Centre LLP, Chandigarh.

He has been trained with the following laboratory works:

Wet Laboratory Work

- Demonstration of Blood Collection Methods
- Isolation & Storage of Serum Samples
- Biochemistry Analysis of Serum/Blood Samples
- Hormone Analysis through Microplate Reader (ELISA)
- Preparation of Stock and Working Solution for DNA Isolation
- DNA Isolation from Whole Blood, Buccal Epithelial Cells.
- Agarose Gel Electrophoresis
- Polymerase Chain Reaction (PCR)
- Restriction Fragment Length Polymorphism (RFLP)

Bioinformatics & Statistical Tools

- Selection of Targeted Gene and Mutation by Bioinformatics Tools (NCBI-BLAST, Ensembl etc.)
- Primer Designing
- Genetic Data Analysis through PLINK and HAPLOVIEW software.

Other activities

Apart from the laboratory work, he has also learned basic of research paper writing and literature review.

He is sincere, honest and hardworking young scholar and bears good moral character.

Origin Life wishes all the success in his future endeavours.


Dr. Pulakesh Purkait, Ph.D
Founder-Director



Origin LIFE Healthcare Solutions & Research Centre LLP.

SCO 181, First Floor, Sector 38 C & D, Chandigarh

+91 8968302334 ; 0172 4086204

Email: info.originlife@gmail.com ; originlife2019@gmail.com Web: www.originlife.in



"Aspire to Live a Healthy Life"

ORG/2021/BMGTB -40

ISO 9001:2015 Certified

A Specialized Infertility & Genetic Diagnostic Laboratory

Genetic Lab. Prov. Reg. No.: 0405500807

UAM No.CH01D0009151[MSME]

Member of Indian Fertility Society (IFS)

Dated: 10/11/2021

CERTIFICATE OF TRAINING EXPERIENCE

This is to certify that **Ms. Anshul**, Department of Biotechnology, Sri Guru Gobind Singh College, Sector 26, Chandigarh, has completed the training program on "**Biochemical & Molecular Genetics Techniques and Bioinformatics**" from 04.10.2021 to 10.11.2021. This training program has been designed under the "**Research & Training Program**" at Origin Life Healthcare Solutions and Research Centre LLP, Chandigarh.

She has been trained with the following laboratory works:

Wet Laboratory Work

- Demonstration of Blood Collection Methods
- Isolation & Storage of Serum Samples
- Biochemistry Analysis of Serum/Blood Samples
- Hormone Analysis through Microplate Reader (ELISA)
- Preparation of Stock and Working Solution for DNA Isolation
- DNA Isolation from Whole Blood, Buccal Epithelial Cells.
- Agarose Gel Electrophoresis
- Polymerase Chain Reaction (PCR)
- Restriction Fragment Length Polymorphism (RFLP)

Bioinformatics & Statistical Tools

- Selection of Targeted Gene and Mutation by Bioinformatics Tools (NCBI-BLAST, Ensembl etc.)
- Primer Designing
- Genetic Data Analysis through PLINK and HAPLOVIEW software.

Other activities

Apart from the laboratory work, she has also learned basic of research paper writing and literature review.

She is sincere, honest and hardworking young scholar and bears good moral character.

Origin Life wishes all the success in her future endeavours.


Dr. Pulakes Kurkati, Ph.D
Founder, Director



Origin LIFE Healthcare Solutions & Research Centre LLP.

SCO 181, First Floor, Sector 38 C & D, Chandigarh

+91 8968302334 ; 0172 4086204

Email: info.originlife@gmail.com ; originlife2019@gmail.com Web: www.originlife.in

Certificate no.

ZBS/OB/2122/T-168

CERTIFICATE

Industrial Training

This is to certify that **Ms. Husanpreet Kaur**, *B.Sc. Biotechnology*, Sri Guru Gobind Singh College, Chandigarh has successfully completed the Biotech Industrial Training Program on “**Forensic Science & DNA Fingerprinting**” at Orbit Biotech for four weeks.



**Celebrating
15th Anniversary**

A handwritten signature in blue ink, appearing to read "Anil", written over a horizontal line.

Director, Orbit Biotech

24 Sep 2021

Date of Issue



www.orbitbiotech.com
Certificate
Verification Link

CERTIFICATE OF TRAINING EXPERIENCE

This is to certify that **Ms. Kajal**, Department of Biotechnology, Sri Guru Gobind Singh College, Sector 26, Chandigarh, has completed the training program on "**Biochemical & Molecular Genetics Techniques and Bioinformatics**" from 04.10.2021 to 10.11.2021. This training program has been designed under the "**Research & Training Program**" at Origin Life Healthcare Solutions and Research Centre LLP, Chandigarh.

She has been trained with the following laboratory works:

Wet Laboratory Work

- Demonstration of Blood Collection Methods
- Isolation & Storage of Serum Samples
- Biochemistry Analysis of Serum/Blood Samples
- Hormone Analysis through Microplate Reader (ELISA)
- Preparation of Stock and Working Solution for DNA Isolation
- DNA Isolation from Whole Blood, Buccal Epithelial Cells.
- Agarose Gel Electrophoresis
- Polymerase Chain Reaction (PCR)
- Restriction Fragment Length Polymorphism (RFLP)

Bioinformatics & Statistical Tools

- Selection of Targeted Gene and Mutation by Bioinformatics Tools (NCBI-BLAST, Ensembl etc.)
- Primer Designing
- Genetic Data Analysis through PLINK and HAPLOVIEW software.

Other activities

Apart from the laboratory work, she has also learned basic of research paper writing and literature review.

She is sincere, honest and hardworking young scholar and bears good moral character.

Origin Life wishes all the success in her future endeavours.


Dr. Pulakes Purkayastha, Ph.D
Founder & Director



CERTIFICATE

OF ACHIEVEMENT



MSME

MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम
OUR STRENGTH • इन्सारे लॉकर

Ministry of MSME, Govt. of India

Certificate No. : LB/ABRL/TP/2021/
12/02

This it to certify that Ms/Mr/Mrs./Dr. NAVJOT SINGH

Son/Daughter of Ms. JAGSEER SINGH and Ms. MANPREET KAUR

student of B.Sc. BIOTECHNOLOGY (HONOURS), from SGGS COLLEGE, SEC-26,
CHANDIGARH

has successfully completed his/her Industrial Biotech Training Program for the duration

of 20 days/Month from 28-10-2021 to 16-11-2021 under guidance of Ms. ANSHUL
Ms. PRIYANKA

Level : SUPREME

Field Name : ALCOHOL FERMENTATION TECHNOLOGY, FORENSIC SCIENCE, GENE N GENOMICS
HORTICULTURE, MYCOLOGY

He/She secured Grade: 'O' [OUTSTANDING]

During the period of his/her training program with us, he/she had been exposed to various discipline of Biotechnology and was found diligent, hardworking and inquisitive.

We wish him/her every success in her/his life and career.

Shreya Jain

Ms. Shreya Jain
CEO & Founder

Acentric Biotech & Research Laboratory

Date of Issue 6-12-2021



FILE NO. CRG/2021/007010
SCIENCE & ENGINEERING RESEARCH BOARD

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 31-Jan-2022

ORDER

Subject: Financial Sanction of the research project titled "The roles of genetic and ecological factors in nest founding strategies of the primitively eusocial wasp, *Polistes wattii*" under the guidance of Dr. Ruchira Sen, PG Department Zoology, SRI GURU GOBIND SINGH COLLEGE CHANDIGARH, Sector-26, Chandigarh, Chandigarh-160019 and by Dr. Rhitoban Raychoudhury, Assistant Professor, Biological Sciences, Indian Institute Of Science Education And Research, Mohali - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of **Rs. 3919315/-** (Rs. Rupees Thirty Nine Lakh Nineteen Thousand Three Hundred and Fifteen only Only) with break-up of **Rs. 893075/- under Capital (Non-recurring) head** and **Rs. 3026240/- under General (Recurring) head** for a duration of **36 months**. The items of expenditure for which the total allocation of **Rs. 3919315/-** has been approved are given below:

The following budget may be considered for **Sri Guru Gobind Singh College, Sector-26, Chandigarh**

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Digital Video camera -> Digital Camera	200000
A'	Total (Non-Recurring)	200000
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1350240 1150000 20000
2	Recurring - IV : (Overhead Charges)	272000
B'	Total (Recurring)	2792240
C	Total cost of the project (A' + B')	2992240

The following budget may be considered for **Indian Institute Of Science Education And Research, Mohali, IISER Mohali, Knowledge City, Sector 81, SAS Nagar, Manauli PO**

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Vertical Sequencing Gel -> Work Station with Printer	693075
A'	Total (Non-Recurring)	693075
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : (Travel, Contingencies) Recurring - III : Scientific Social Responsibility	0 150000 0
2	Recurring - IV : (Overhead Charges)	84000
B'	Total (Recurring)	234000
C	Total cost of the project (A' + B')	927075

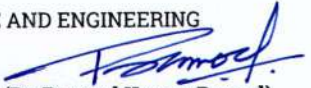
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The institute will furnish to the SERB, New Delhi, separate Utilization certificate(UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

7. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project

8. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

9. The sanctioned equipments and consumables would be produced as per GFR 2005 and its disposal would be done with prior approval of SERB.

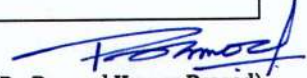
10. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.


(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to :-

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<p>Dr. Ruchira Sen PG Department Zoology SRI GURU GOBIND SINGH COLLEGE CHANDIGARH, Sector-26, Chandigarh, Chandigarh-160019 Email: ruchirabook@gmail.com Mobile: 918146185514</p> <p>Dr. Rhitoban Raychoudhury Biological Sciences Indian Institute Of Science Education And Research, Mohali (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in.)</p>
5.	<p>PRINCIPAL, Sri Guru Gobind Singh College, Sector-26, Chandigarh Registrar, Indian Institute Of Science Education And Research, Mohali, IISER Mohali, Knowledge City, Sector 81, SAS Nagar, Manauli PO</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>


(Dr. Pramod Kumar Prasad)
Scientist-D
pk.prasad@serb.gov.in

FILE NO. TAR/2021/000026
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)
(A statutory body of the Department of Science & Technology, government of India)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 25-Jan-2022

ORDER

Subject: Financial Sanction under Teachers Associateship for Research Excellence (TARE) to **Dr. SOMA DE, SRI GURU GOBIND SINGH COLLEGE CHANDIGARH, Sector-26, Chandigarh, Chandigarh-160019** under the mentorship of Prof. Sudeshna Sinha, at **Indian Institute of Science Education and Research, Mohali IISER Mohali, Knowledge city, Sector 81, SAS Nagar, Manauli PO - 140306** - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned grant at a total cost of Rs. 18,30,000/- (Rs. Rupees Eighteen Lakh Thirty Thousand only) for a duration of 36 months.

The date of start of the project will be 07 December, 2021. The items of expenditure for which the total allocation of Rs. 18,30,000/- has been approved are given below:

The following budget is proposed for

SRI GURU GOBIND SINGH COLLEGE CHANDIGARH, Sector-26, Chandigarh, Chandigarh-160019 (Parent)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 0 (@0/- per month (consolidated))
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

Indian Institute of Science Education and Research, Mohali IISER Mohali, Knowledge city, Sector 81, SAS Nagar, Manauli PO - 140306 (Host)

Sl. No.	Budget Head	Amount
1.	Fellowship	Rs. 60,000 (on completion of 90 days mandatory attendance in the host institute every year)
2.	Research Grant	Rs. 2,50,000/- per annum
3.	Overheads	Rs. 25,000/- per annum

2. Sanction of the SERB is also accorded to the payment of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) to **Sri Guru Gobind Singh College, Sector-26, Chandigarh**, Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) to **Indian Institute of Science Education and Research, Mohali IISER Mohali, Knowledge city, Sector 81, SAS Nagar, Manauli PO - 140306** being the first installment of the grant for the year 2021-2022 for implementation of the said research project.

3. The expenditure involved is debit to

Fund for Science & Engineering Research (FSER)

This release is being made under Teachers Associateship For Research Excellence (TARE). (Mathematical science)

4. The Sanction has been issued with the approval of the competent authority vide Diary No. SERB/F/6969/2021-2022 dated 10 January, 2022

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website (www.serb.gov.in).

6. Overhead expenses are meant for the host institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

7. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

8. The release amount of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

SRI GURU GOBIND SINGH COLLEGE CHANDIGARH, Sector-26, Chandigarh, Chandigarh-160019 (Parent):

PFMS Unique Code	CHCH00000446
Account Name	PRINCIPAL
Account Number	10506615531
Bank Name & Branch	STATE BANK OF INDIA SGGS COLLEGE, SECTOR 26, CHANDIGARH
IFSC/RTGS Code	SBIN0010608
Email address of PI	somade.iitkgp@gmail.com
Email id of A/C Holder	principal.sggs26@gmail.com
Email address of concerned officer	ms_tare@serbonline.in

The release amount of Rs. 3,35,000/- (Rupees Three Lakh Thirty Five Thousand only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Indian Institute of Science Education and Research, Mohali IISER Mohali, Knowledge city, Sector 81, SAS Nagar, Manauli PO - 140306 (Host) :

PFMS Unique Code	IISERM
Account Name	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI (PROJECT A/C)
Account Number	4790101002130
Bank Name & Branch	CANARA BANK IISER MOHALI CAMPUS, SECTOR 81, KNOWLEDGE CITY
IFSC/RTGS Code	CNRB0004790
Email address of PI	somade.iitkgp@gmail.com
Email id of A/C Holder	registrar@iisermohali.ac.in
Email id of Mentor	Prof. Sudeshna Sinha

9. Both the institutes will furnish Utilization certificate (UCs) financial year wise to the SERB and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. The institute will maintain separate audited accounts for the fellowship. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.


11. The File no. TAR/2021/000026 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

12. As this is the first grant for the fellowship, no previous U/C is required.

13. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

14. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board, a statutory body of the Department of Science & Technology (DST), Government of India should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.


15. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board, a statutory body of Department of Science & Technology (DST), Government of India.


(Dr. T Thangaradjou)
Scientist F
msls@serb.gov.in

To,
Under Secretary
SERB, New Delhi

Copy forwarded for information and necessary action to: -

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3.	File Copy
4.	(i) Dr. SOMA DE Mathematics SRI GURU GOBIND SINGH COLLEGE CHANDIGARH, Sector-26, Chandigarh, Chandigarh-160019 Email: somade.iitkgp@gmail.com Mobile: 91828400663 (ii) Prof. Sudeshna Sinha Indian Institute of Science Education and Research, Mohali IISER Mohali, Knowledge city, Sector 81, SAS Nagar, Manauli PO - 140306 (Start date of the project may be intimated by name to the undersigned. For guidance, terms & Conditions etc. Please visit www.serb.gov.in .)
5.	(i) Principal, Sri Guru Gobind Singh College, Sector-26, Chandigarh (ii) REGISTRAR Indian Institute of Science Education and Research, Mohali IISER Mohali, Knowledge city, Sector 81, SAS Nagar, Manauli PO - 140306 (Receipt of Grant may be intimated by name to the undersigned)


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Scientist F
msls@serb.gov.in



NEP 2020

*A Vision Document of
21st Century Bharat*

Editor
Dr. Dhiraj Singh



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Dr. Dhiraj Singh

Editor

Head, Department of Education

Modern College of Professional Studies, Mohan Nagar, Ghaziabad

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Dedication

*Dedicated to my first friend,
Teacher and guide, inspiration,
Fountain head of motivation,
My intuitive and elegant mother.*



*Whose affectionate support gives me
Strength to erumble the mountains down and
Pave the way through darkness to light.*

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Applied Research Development in Physical & Chemical Sciences and Engineering



Edited by :

Prof. R. K. Shukla | Dr. Bhuvan Bhasker Srivastava | Dr. Susheel Kumar Singh



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Chapter-15

Development of rapid RP-HPLC method and optimization of extraction technique for the bioactive constituents in leaf, pulp, bark, flower, and fruit of *Crataegus oxyacantha* L.

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Abstract:

Crataegus oxyacantha is a popular shrub for its cardioprotective and antioxidant properties. The main constituents in this plant are flavonoids and phenolic acids which are also responsible for its pharmacological activities. The preparation of enriched extract of *C. oxyacantha* has huge prominence in pharmaceutical industry to formulate cardioprotective drugs and antioxidant products of nutraceutical importance. Likewise, analysts highly appreciate the fast and efficient analytical methods because it accelerates the analysis time. The present study deals with standardization of an efficient extraction method and validation of developed simple, sensitive, and rapid reversed phase high performance liquid chromatographic method (RP-HPLC) method for the quantitative determination of chlorogenic acid, epicatechin, vitexin, hyperoside, quercetin and apigenin within 15 minutes in *Crataegus oxyacantha*. The influence of extraction methods on various parts of *Crataegus* viz. leaf, pulp, bark, flower, and fruit were studied, and the orbital shaker was recorded to be the best extraction technique. The total phenolic content, total flavonoid content, and the antioxidant activity (using DPPH, ABTS and FRAP assays) were also assessed for different extracts. This study could be useful for the preparation of nutraceutical formulations of *C. oxyacantha* containing enriched antioxidant constituents.

Keywords: *Crataegus oxyacantha*, extraction, antioxidant activity, flavonoid, HPLC, phenolic content.

Introduction

Hawthorn (*Crataegus* spp.) is a deciduous shrub which belongs to Rosaceae family. In 2002, the *Crataegus* products in Germany were listed on the 5th and 6th position for cardiac



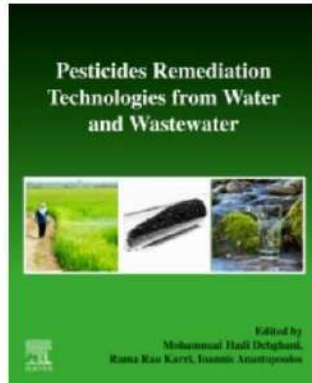
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Kirtanjot Kaur, Ashvinder Kumar Rana, Bhupinder Kumar, Vaneet Kumar and Saruchi

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Advance remediation technologies for the removal of organochlorine from water and wastewater

Kirtanjot Kaur¹, Ashvinder Kumar Rana², Bhupinder Kumar^{3,4}, Vaneet Kumar^{3,4} and Saruchi^{3,4}

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14.1 Introduction

Industrial and agricultural waste owes to many ins and outs like poor sewage treatment, seawater dumping leads to an increase in the water pollution (Ahmad et al., 2015; Zhang et al., 2016)(Dehghani, Omrani, & Karri, 2021; Karri, Ravindran, & Dehghani, 2021). A new United Nations study suggests that cleaning and the supply of freshwater is a major problem for the whole world in the 21st century as the sustainability and pollution of living beings are not safe because of water pollution (Gitis & Hankins, 2018; Hodges, Cates, & Kim, 2018). Polluted water means that undesired contaminants like pesticides arrive, to render them make them unsuitable for drinking and other uses in water sources purposes leading to even death with a high statistical rate (Karunarathne, Gunnell, Konradsen, & Eddleston, 2019). Pesticides are chemicals used by humans to destroy harmful species (pests) for the survival of agricultural resources (EPA, 2009). The most widely utilized pesticides are herbicides, and insecticides, molluscicides, rodenticides, preceded by fungicides, acaricides, and nematocides (EPA, 2009; London & Meyers, 1995). Chemically pesticides can be categorized as (1)

Norkhairunnisa Mazlan
S.M. Sapuan
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Advanced Composites in Aerospace Engineering Applications

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Optimization of Reinforcement Parameters and Turning Conditions for Improving Surface Quality of Hybrid Al-SiC-Red Mud Composite for Automotive and Aerospace Components

[Amit Chauhan](#) , [Jaswinder Singh](#) & [Saroj Bala](#)

Chapter | [First Online: 21 February 2022](#)

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Abstract

This chapter investigates machining response (surface roughness) of Al2024/SiC/red-mud hybrid composites. The composite specimens are processed via stir casting route, and dry turning operations have been performed on the specimens using computer numerical control (CNC) lathe machine. The influence of various parameters, i.e. reinforcement parameters (red-mud wt.% and particle size) and cutting conditions (feed rate, depth of cut and cutting speed), has been studied using response surface methodology (RSM). The results indicate that depth of cut has the highest contribution (33.84%) on surface roughness of the Al2024 composites followed by red-mud wt.% (28.65%) and feed rate (26.57%). The results also indicate that the surface quality of the Al2024/SiC/red-mud composites is significantly enhanced with increase

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Targeting Mitochondria as a Novel Disease-Modifying Therapeutic Strategy in Cancer

Gurjit Kaur Bhatti, Paras Pahwa, Anshika Gupta,
Inderpal Singh Sidhu, Uma Shanker Navik, P. Hemachandra Reddy,
and Jasvinder Singh Bhatti

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for Deputy Registrar (General)

DEPARTMENT OF PHYSICS

Meeting of the Joint Academic and Administrative Committee (JAAC) of the Department was held on 28.2.2018 at 3.00 p.m. in the Committee Room of the Department of Physics, Panjab University, Chandigarh. The following members were present:

- Prof. Navdeep Goyal Chairman
- Prof. D.Mehta
- Prof. G.S.S. Saini
- Prof. C.N. Kumar
- Prof. Ranjan Kumar
- Prof. B. R. Behera
- Prof. Vipin Bhatnagar
- Dr. K. S. Bindra
- Dr. Ashok Kumar
- Dr. J.S. Shahi
- Dr. Kuldeep Kumar
- Dr. M.D. Sharma
- Dr. Rajesh Kumar
- Dr. Lokesh Kumar
- Dr. Gulshreen Ahuja

Prof. S.K.Tripathi, Prof. Sandeep Sahjpal, Dr. Sumita Srivastava, Dr. Neer Chaudhary were on leave.

The following decisions were taken unanimously:

1. The Ph.D. Enrolment applications of the following candidates were approved:

Sr. No.	Name	Name of the Supervisor(s)
1	Ms. Sunidhi	Dr. Sunil Arora
2	Ms. Jyoti Babbar	Prof. Vipin Bhatnagar/Dr. Sushil S Chauhan
3	Mr. Sunil Kumar	Dr. Sushil S Chauhan
4	Ms. Preeti	Prof. Ranjan Kumar
5	Mr. Gaurav Kumar	Prof. Rajeev K. Puri
6	Ms. Shailza Pathania	Prof. C.N. Kumar & Dr. Amit Goyal
7	Ms. Ankita Jeneja	Dr. Sanjeev Kumar, GGSDS College, 32
8	Ms. Arshdeep Kaur	Prof. B.R. Behera
9	<u>Mr. Shagun Nag</u>	<u>Prof. Ranjan Kumar & Dr. Ranber Singh</u>
10	Ms. Diwanshu	Dr. Ashok Kumar
11	Ms. Deepti Rana	Prof. B.R. Behera
12	Ms. Simrandeep Kaur	Dr. Ashok Kumar
13	Mr. Sanjay Sandhu	Dr. Lokesh Kumar
14	Ms. Ritu Rani	Prof. A.K. Bhati & Dr. Bimal Rai
15	Ms. Shafly	Dr. Neeru Chaudhary

PhD guide:

Dr Kawalpreet Kaur

Name of Scholar(s):

Mr. Harender Kumar

Ms. Sakshi

PANJAB UNIVERSITY, CHANDIGARH

From The Deputy Registrar (General)
Panjab University
Dewan Anand Kumar Hall
Chandigarh-160014

To Mr. Harender Kumar
Research Scholar
Department of Zoology
Panjab University, Chandigarh.

No.ST. _____

Date _____

Dear Candidate,

The Science Research Board at its meeting held on **8.8.2018** has approved your **Approval of Candidacy** and also the following title of your thesis for the award of degree of Doctor of Philosophy in the Faculty of **Science/ Department of Zoology**

"STUDY OF BRAIN-GUT-AXIS AND BEHAVIOURAL RESPONSE OF ZEBRAFISH, *Danio rerio* (HAMILTON) TO DIETARY ADMINISTRATION OF PREBIOTIC *Arthrospira platensis* AND PROBIOTIC *Lactobacillus plantarum*"

You will pursue research work at this University or an approved centre, as required under the regulations relating to Ph.D., for three years from the date of your registration for Ph.D. under the supervision of:

- i) **Dr. Ravneet Kaur**, Asstt. Prof., Dept. of Zoology, P.U., Chd.
- ii) **Dr. Kawalpreet Kaur**, Asstt. Prof., Dept. of Botany, SGGGS College, Sec-26, Chd.

You will be required to pay the prescribed annual fee from the date of registration. No exemption in payment of fee shall be allowed except in case of a person holding a Panjab University or a University Grants Commission Scholarship or of any other such body, who shall, on being enrolled, be exempted from payment of monthly fee.

You are required to submit four copies of your thesis to the University (Thesis Section/Secrecy Branch) along with prescribed fee and all certificate/s as required under the regulation/s, at the expiry of three years from the date of your registration. You must not give the name(s) of your Supervisor(s) on the title page or at any other place in your thesis, except on the page(s) dealing with 'Acknowledgement(s)'. This stipulation may please be strictly adhered to, failing which, the thesis shall not be accepted by the University.

Yours faithfully,

Sd/-

Office Superintendent (Meetings)
for Deputy Registrar (General)

Endst.No.ST. 12579

Date 5/11/18

Copy of the above is forwarded to the following for information and necessary action:

1. Chairperson, Department of Zoology, P.U., Chd.
2. Supervisors: i) **Dr. Ravneet Kaur**, Asstt. Prof., Dept. of Zoology, P.U., Chd.
ii) **Dr. Kawalpreet Kaur**, Asstt. Prof., Dept. of Botany, SGGGS College, Sec-26, Chd.
3. Librarian, Association of Indian Universities, A.I.U. House, 16 Kotla Marg, New Delhi- 110002.


Office Superintendent (Meetings)
for Deputy Registrar (General)

RESEARCH SCHOLARS

S.No.	Name of the Supervisor / Co-Supervisor	Name of the Ph.D. Scholar	Mode of Ph.D.	Registration Number	Date of Registration	Research Topic	Likely Date of Completion	Availing Fellowship	Funding Agency of Fellowship
Updated on: 09/12/2022									
1.	Dr. S.K. Upadhyay	Jyoti Shekhawat	Full Time	22-23/81/Ph.D	07/09/2022	MOLECULAR CLONING AND FUNCTIONAL CHARACTERIZATION OF A LONG THAUMAT IN-LIKE PROTEIN OF BREAD WHEAT (triticum aestivum L.)	06/09/2027	Yes	ICMR
2.	Prof. Harsh Nayyar	Aastha Sharda	Full Time	21-22/493/Ph.D	05/05/2022	Evaluation of Mothbean genotypes for heat tolerance & investigating mechanisms governing heat tolerance	30/04/2027	Yes	CSIR
3.	Prof. M.C. Sidhu	Komal Choudhary	Full Time	21-22/216/Ph.D.	25/01/2022	Taxonomic Characterisation of Angiosperm Flora of Chandigarh with Special Reference to Tree Species	25/01/2027	Yes	CSIR
4.	Dr. S.K. Upadhyay	Deepika	Full Time	21-22/158/Ph.D	07/12/2021	MOLECULAR AND FUNCTIONAL CHARACTERIZATION OF LYSM-DOMAIN CONTAINING PROTEINS OF BREAD WHEAT (Triticum aestivum L.)	07/12/2026	Yes	UGC
5.	Dr. Papiya Mukherjee	Shrishti	Full Time	21-22/157/Ph.D	07/12/2021	comparative study of different cryo-techniques for efficient cryopresevation of some important plant species	06/12/2026	Yes	CSIR
6.	Dr. Anju Rao	Umesh Thakur	Full Time	21-22/32/Ph.D	27/07/2021			Yes	UGC
7.	Prof. Richa Puri	NIDHI	Full Time	21-22/31/Ph.D	27/07/2021		27/07/2026	Yes	UGC
8.	Prof. Sunita Kapila	Shefali	Full Time	21-22/45/Ph.D	27/07/2021	Impact of heavy metals on Bryophytes	26/07/2026	Yes	Panjab University, Chandigarh
9.	Dr. Papiya Mukherjee	CHARU SHARMA	Full Time	2020-EZ-86	23/02/2021	LONG TERM CONSERVATION OF SOKE VALUABLE MEDICINAL PLANTS	23/02/2026	Yes	CSIR
10.	Prof. M.C. Sidhu Dr. Kawalpreet Kaur, SGGC, Sector 26, Chandigarh	Sakshi	Full Time	20-21/253/Ph.D.	25/01/2021	Cytomorphological and Phytochemical Profiling of Nicotiana plumbaginifolia Viv. Growing in Chandigarh and Adjoining Areas	26/01/2026	No	

PhD guide:

Dr Sandeep Kaur

Name of Scholar(s):

Ms. Rupinder Aulakh

Mr. Shubham Sharma

Ms. Pooja Gothwal

Mr. Abhishek Sarta

PANJAB UNIVERSITY, CHANDIGARH

From: The Deputy Registrar (General)
Panjab University
Chandigarh-160014

To: **Ms. Rupinder Aulakh**
Dept. cum Centre for Women's Studies
& Development
Panjab University, Chandigarh.

No.ST/ 7770 Dated: 23/11/20

Dear Candidate,

The Joint Research Board at its meeting held on **10.09.2020** vide **(Para 49)** has allowed that Dr. Sandeep Kaur, Asstt. Prof., Dept. of Public Administration, SGGGS, Sector-26, Chandigarh may be appointment as Co-Supervisor of Ms. Rupinder Aulakh, Research Scholar of the Dept. cum Centre for Women's Studies & Development.

Yours faithfully,
[Signature]
Deputy Registrar (General)

Diary No. 1903/CWS @ Ms Rupinder
23/11/2020

PANJAB UNIVERSITY, CHANDIGARH

From: The Deputy Registrar (General)
Panjab University
Dewan Anand Kumar Hall
Chandigarh-160014

To: **Ms. Rupinder Aulakh**
Research Scholar
Deptt. cum Centre for Women's Studies &
Development
Panjab University, Chandigarh

No.ST _____ Date: _____

Madam,

The Joint Research Board at its meeting held on **31.07.2017** has approved your candidacy as also the following title of your thesis for the award of degree of Doctor of Philosophy in the Faculty of Arts/Department cum Centre for Women's Studies & Development:

"INDIAN WOMEN AND SOCIAL MEDIA: A STUDY OF SELECTED SOCIO-POLITICAL, ECONOMIC AND ADMINISTRATIVE ISSUES IN CHANDIGARH AND ROPRNAGAR"

You are required to pursue research work at this University or an approved centre, as required under the regulations relating to Ph.D. for three years from the date of your registration for Ph.D. under the supervision of

Prof. Emanuel Nahar

You will be required to pay the prescribed annual fee from the date of registration. No exemption in payment of fee shall be allowed except in case of a person holding a Panjab University or a University Grants Commission Scholarship or of any other such body, who shall on being enrolled, be exempted from payment of monthly fee.

You are required to submit four copies of your thesis to the University (Thesis Section/Secretary Branch) along with prescribed fee and all certificate/s as required under the regulation/s, at the expiry of three years from the date of your registration. You should not give the name(s) of your Supervisor(s) on the title page or at any other place in your thesis, except on the page(s) dealing with Acknowledgements. This stipulation may please be strictly adhered to, failing which, the thesis shall not be accepted by the University.

Yours faithfully,
Sd/
Deputy Registrar (General)

Encl. No.ST. 16953-56 Date 20/11/17

Copy of the above is forwarded to the following for information and necessary action

1. Supervisor: **Prof. Emanuel Nahar**, CSOL, P.U., Chandigarh.
2. Chairperson, Deptt. cum Centre for Women's Studies & Development, P.U. Chandigarh
3. Librarian, Association of Indian Universities, A.I.U. House, 16 Kotha Marg, New Delhi- 110002.

Office Superintendent (Regulation)
PANJAB UNIVERSITY
CHANDIGARH

[Signature]
Deputy Registrar (General)

PhD guide: Dr Preet Kanwal
Name of Scholar(s): Mr. Jaswinder Singh

PANJAB UNIVERSITY, CHANDIGARH

From The Deputy Registrar (General) Panjab University Dewan Anand Kumar Hall Chandigarh-160014	To Mr. Jaswinder Singh Research Scholar Department of Computer Science & Applications Panjab University, Chandigarh.
--	---

No.ST. _____ Date _____

Dear Candidate,

The Science Research Board at its meeting held on **19.03.2019** has approved your **Approval of Candidacy** and also the following title of your thesis for the award of degree of Doctor of Philosophy in the Faculty of **Science**, Department of Computer Science & Applications
"DESIGNING AN EXTENSIVE QUALITY ASSESSMENT FRAMEWORK FOR OPEN SOURCE SOFTWARE PROJECTS"

You will pursue research work at this University or an approved centre, as required under the regulations relating to Ph.D., for three years from the date of your registration for Ph.D. under the supervision of:

- i) **Prof. Anu Gupta**, D.C.S.A., P.U., Chd.
- ii) **Dr. Preet Kanwal**, SGGSC, Sector-26, Chd.

You will be required to pay the prescribed annual fee from the date of registration. No exemption in payment of fee shall be allowed except in case of a person holding a Panjab University or a University Grants Commission Scholarship or of any other such body, who shall, on being enrolled, be exempted from payment of monthly fee.

You are required to submit four copies of your thesis to the University (Thesis Section/Secrecy Branch) along with prescribed fee and all certificate/s as required under the regulation/s, at the expiry of three years from the date of your registration. You must not give the name(s) of your Supervisor(s) on the title page or at any other place in your thesis, except on the page(s) dealing with 'Acknowledgement(s)'. This stipulation may please be strictly adhered to, failing which, the thesis shall not be accepted by the University.

Yours faithfully,
Sd/-
Office Superintendent (Meetings)
for Deputy Registrar (General)


Endst.No.ST. 4282 Date 24.4.19

Copy of the above is forwarded to the following for information and necessary action:

1. **Chairperson**, Department of Computer Science & Applications, P.U., Chd.
2. **Supervisors: i) Prof. Anu Gupta**, D.C.S.A., P.U., Chd.
ii) **Dr. Preet Kanwal**, SGGSC, Sector-26, Chd.
3. Librarian, Association of Indian Universities, A.I.U. House, 16 Kofla Marg, New Delhi- 110002.


Office Superintendent (Meetings)
for Deputy Registrar (General)

PhD guide: Dr Sonia Batta
Name of Scholar(s): Ms. Anupama Bhardwaj



Roll No. 5047

Slr. No. 143
 Regn. No. 18105000940


Panjab University, Chandigarh
 (Provisional Certificate)

TO WHOM IT MAY CONCERN


This is to certify that Anupama Bhardwaj daughter of Shri Ramesh Bhardwaj and of the Chandigarh (Union Territory) has completed all the requirements for the award of the degree of Doctor of Philosophy of the Panjab University in the Faculty / Subject of Science / Biotechnology

She wrote her Ph.D. thesis entitled TO EXPLORE THE ENDOGENOUS BACTERIAL AND FUNGAL DIVERSITY FOR EFFICIENT TREATMENT OF DAIRY WASTE WATER under the supervision of 1. Dr. Jagtar Singh, Dept. of Biotechnology, P.U., Chandigarh, 2 Dr. Sonia Chaman, Dept. of Biotechnology, SGGS College, Sector-26, Chandigarh.

The degree will be conferred on her at the next convocation of the University.


 Controller of Examinations

Chandigarh
 Dated: December, 30, 2020



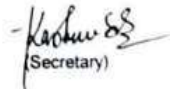
DEPARTMENT OF BIOTECHNOLOGY
PANJAB UNIVERSITY CHANDIGARH 160014

No. 9400-02/Pu/2021
 Dated: 1st May - 2024

Phone: 0172-2544055 (O), Fax: 0172-2541409

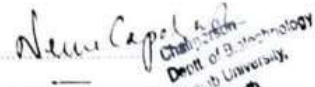
A meeting of the Administrative and Academic Committee of Biotechnology Department was held on 30/04/2014 at 11.00 a.m. in the Department of Biotechnology, to consider application form and synopsis of following Ph.D. students for consideration by the R.D.C. in Biotechnology. The members approved the subject of thesis and Supervisors as under: -

Name of candidate	Subject of Ph.D. thesis	Supervisor/s
ANUPAMA BHARDWAJ	*TO EXPLORE THE ENDOGENOUS BACTERIAL AND FUNGAL DIVERSITY FOR EFFICIENT TREATMENT OF DAIRY WASTE WATER*	1. Dr. Jagtar Singh, Associate Professor, Deptt. of Biotechnology, Panjab University, Chandigarh. 2. Dr. Sonia Chaman, Assistant Professor, Deptt. of Biotechnology, SGGS College, Sector-26, Chandigarh.



 (Secretary)

Members of Committee:-

1. Dr. (Mrs) Neena Capalash, Chairperson
2. Dr. (Mrs) Jagdeep Kaur, Professor
3. Dr. Jagtar Singh, Associate Professor
4. Dr. Kashmir Singh, Assistant Professor


 Chairperson
 Deptt. of Biotechnology
 Panjab University,
 Chandigarh
 30/04/2014

PhD guide: **Dr Jasvinder Singh Bhatti**
Name of Scholar(s): **Ms Namrata Sethi**
Ms. Navneet Kaur
Ms. Sumanpreet Kaur



**LOVELY
PROFESSIONAL
UNIVERSITY**
Transforming Education Transforming India


Division of Examination
Recognized by UGC Under Section 3(1) of the University Grants Commission Act, 1956 by the Notification No. F-3/77 (CSP-1) Member of Association of Indian Universities (AIU), New Delhi


Sr. No. 374 LPU/BE/DOR/SC/226226/1005630/P205-T/16/9001
Code No. CRT163 Date: 26-Feb-22


TO WHOM SO EVER IT MAY CONCERN




Name of the Student Ms. Namrata Sethi
Daughter of Mr. Rajneesh Handa
Registration No. 41600090
Name of the Programme Doctor of Philosophy (Nutrition and Dietetics)
Batch 2016
Lovely Faculty of Technology & Sciences

This is to certify that Ms. Namrata Sethi, Regd. No. 41600090 who pursued her Doctor of Philosophy (Nutrition and Dietetics) under the supervision of Dr. Prema Gupta and under co-supervision of Dr. Jasvinder Singh Bhatti at the Lovely Professional University has fulfilled the respective requirements as per University Grants Commission (Minimum Standards And Procedure For Award of Ph.D Degree) Regulations as in force.


Assistant Registrar (Records)
Lovely Professional University


Checked by


Verified by

Prepared by  Checked by  Verified by 

Disclaimer: This certificate is issued on the basis of information available in the office of records on the date of its issue and the University reserves the right to withdraw any information contained herein without notice further the University expressly disclaims all obligations to confirm the accuracy of any of the particulars in this certificate based upon information submitted by the candidate.

Jalandhar-Delhi (U.L.) Road, Phagwara, Punjab (India) - 144611
For enquiry : Ph : +91-1824-520990 Fax : 01824-506311 E-mail : ao.records@lpu.ac.in website : www.lpu.in

PANJAB UNIVERSITY, CHANDIGARH

From The Deputy Registrar (General)
Panjab University
Dewan Anand Kumar Hall
Chandigarh-160014

To Ms. Navneet Kaur
Research Scholar
Department of Microbial Biotechnology
Panjab University, Chandigarh.

No. ST. _____ Date _____

Madam,

The Science Research Board at its meeting held on **8.7.2015** has approved your **Approval of Candidacy** as also the following title of your thesis for the award of degree of Doctor of Philosophy in the Faculty of Science/ Department of **Microbial Biotechnology**:

"EVALUATION OF GUT MICROBIOTA AND GENETIC PREDISPOSITION TO TYPE 2 DIABETES IN INDIAN POPULATION"

You are required to pursue research work at this University or an approved centre, as required under the regulations relating to Ph.D., for three years from the date of your registration for Ph.D. under the supervision of:

i) Dr. Jasvinder Singh Bhatti ii) Dr. Samer Singh iii) Dr. Sanjay Bhadada

You will be required to pay the prescribed annual fee from the date of registration. No exemption in payment of fee shall be allowed except in case of a person holding a Panjab University or a University Grants Commission Scholarship or of any other such body, who shall, on being registered, be exempted from payment of monthly fee.

You are required to submit four copies of your thesis to the University (Thesis Section/Secrecy Branch) along with prescribed fee and all certificate/s as required under the regulation/s, at the expiry of three years from the date of your registration. You must not give the name(s) of your Supervisor(s) on the title page or at any other place in your thesis, except on the page(s) dealing with 'Acknowledgement(s)'. This stipulation may please be strictly adhered to, failing which, the thesis shall not be accepted by the University.

Yours faithfully,

Sd/-
Office Superintendent (Meetings)
for Deputy Registrar (General)

Endst.No.ST. 10081 **Date 18-9-15**

Copy of the above is forwarded to the following for information and necessary action:

1. Supervisor: **i) Dr. Jasvinder Singh Bhatti**, Asst. Prof., Dept. of Biotechnology & Bioinformatics, SGGS College, Sec- 26, Chd.
- ii) Dr. Samer Singh**, Dept. of Microbial Biotechnology, P.U., Chd.
- iii) Dr. Sanjay Bhadada**, Associate Prof., Dept. of Endocrinology, PGIMER, Chd.
2. Chairperson, Department of **Microbial Biotechnology**, P.U., Chd.
3. Librarian, Association of Indian Universities, A.I.U. House, 16 Kofis Marg, New Delhi- 110002.

Office Superintendent (Meetings)
for Deputy Registrar (General)

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PANJAB UNIVERSITY, CHANDIGARH

From The Registrar
Panjab University
Dewan Anand Kumar Hall
Chandigarh-160014

To Ms. Sumanpreet Kaur
Research Scholar
Centre for Microbial Biotechnology
Panjab University, Chandigarh.

No. ST. _____ Date _____

Madam,

The Science Research Board at its meeting held on **10.10.2012** has approved your registration as also the following title of your thesis for the award of degree of Doctor of Philosophy in the Faculty of **Science/ Centre for Microbial Biotechnology**:

"GENETIC SUSCEPTIBILITY AND ENVIRONMENTAL FACTORS ASSOCIATED WITH THE RISK OF CARDIOVASCULAR DISEASES IN NORTH INDIAN POPULATION"

You will pursue research work at this University or an approved centre, as required under the regulations relating to Ph.D., for three years from the date of your enrolment for Ph.D. under the supervision of:

i) Prof. Rupinder Tewari ii) Dr. Rajesh Vijayvergiya iii) Dr. Jasvinder Singh Bhatti

You will be required to pay the prescribed annual fee from the date of enrolment. No exemption in payment of fee shall be allowed except in case of a person holding a Panjab University or a University Grants Commission Scholarship or of any other such body, who shall, on being enrolled, be exempted from payment of monthly fee.

You are required to submit four copies of your thesis to the University (Thesis Section/Secrecy Branch) along with prescribed fee and all certificate/s as required under the regulation/s, at the expiry of three years from the date of your enrolment. You must not give the name(s) of your Supervisor(s) on the title page or at any other place in your thesis, except on the page(s) dealing with 'Acknowledgement(s).' This stipulation may please be strictly adhered to, failing which, the thesis shall not be accepted by the University.

Yours faithfully,

Sd/-
Office Superintendent (Meetings)
for Registrar

Endst.No.ST. 10967

Date 7-11-12

Copy of the above is forwarded to the following for information and necessary action:

- Supervisor: i) Prof. Rupinder Tewari, Centre for Microbial Biotechnology, P.U., Chd
ii) Dr. Rajesh Vijayvergiya, Deptt. of Cardiology, PGIMER, Chd.
iii) Dr. Jasvinder Singh Bhatti, Deptt. of Biotechnology & Bioinformatics, SGGGS College, Sec-26, Chd.
- Coordinator, Centre for Microbial Biotechnology, P.U., Chd.
- Librarian, Association of Indian Universities, A.I.U. House, 16 Kotla Marg, New Delhi- 110002.

Office Superintendent (Meetings)
for Registrar

Roll No. 4277



Panjab University

Doctor of Philosophy

(In the faculty of Science)



Certified that Sumanpreet Kaur, Regd. No. 07-gc-52, daughter of Shri. Balbir Singh, and of the Punjab State, has obtained the degree of Doctor of Philosophy of this University on the result of the examination held in 2018.

Given under the seal of the University

R Singh

Controller of Examinations

K Singh

Registrar



R Kumar

Vice Chancellor

Mandi

Chancellor

Chandigarh, December, 17, 2018

PhD guide: Dr Surjit Singh
Name of Scholar(s): Ms. Anjali Garg

researchpaper@gmail.com
0175-5136158

ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
(1961 ਦੇ ਪੰਜਾਬ ਸੋਫਟ ਨੰ. 35 ਤਹਿਤ ਸਥਾਪਤ)
(ਅਕਾਦਮਿਕ ਖੋਜ ਖਾਤਾ)

ਰਜਿਸਟਰ ਨੰਬਰ:/ਰਿਸਰਚ
ਮਿਤੀ:

Anjali Garg
Father's Name: Sh. Darshan Garg
Add: #25, Neem Wali Gali, Mansa, Punjab

ਵਿਸ਼ਾ : ਪੀਐਚ.ਡੀ. ਫਿਰਕੀ ਲਈ ਰਜਿਸਟ੍ਰੇਸ਼ਨ ਪੱਤਰ।

ਤੁਹਾਨੂੰ ਇਹ ਜਾਣ ਕੇ ਖੁਸ਼ੀ ਹੋਵੇਗੀ ਕਿ ਫੈਕਲਟੀ ਆਫ਼ ਬਿਜਨਸ ਸਟੱਡੀਜ਼, ਏ-ਬਲਾਕ-ਆਫ਼ ਪੋਸਟ ਗ੍ਰੈਜੂਏਟ ਸਟੱਡੀਜ਼ ਐਂਡ ਰਿਸਰਚ ਨੇ ਮਿਤੀ 24.02.2022 ਦੀ ਇਕੱਤਰਤਾ ਵਿੱਚ ਤੁਹਾਡੀ ਪੀਐਚ.ਡੀ. ਫਿਰਕੀ ਲਈ ਰਜਿਸਟ੍ਰੇਸ਼ਨ ਨਿਰਨੀਤਤ ਮਿਤੀ ਤੋਂ ਪ੍ਰਵਾਨ ਕਰ ਲਈ ਹੈ ਅਤੇ ਤੁਹਾਡੇ ਖੋਜ-ਨਿਬੰਧ ਦਾ ਵਿਸ਼ਾ ਅਤੇ ਨਿਰਧਾਰਨ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਪ੍ਰਵਾਨ ਕੀਤੇ ਜਾਣਗੇ:

ਰਜਿਸਟ੍ਰੇਸ਼ਨ ਦੀ ਮਿਤੀ	: 16-12-2021(DRB Date)
ਵਿਸ਼ਾ	: NATIONAL PENSION SYSTEM: A STUDY OF PERCEPTION AND SATISFACTION AMONG PUBLIC SECTOR EMPLOYEES
ਨਿਰਧਾਰਨ	: Dr. Anand Bansal
ਸਹਿ-ਨਿਰਧਾਰਨ	: Dr. Surjit Singh

ਤੁਸੀਂ ਰਜਿਸਟ੍ਰੇਸ਼ਨ ਸਬੰਧੀ ਲੋੜੀਂਦੇ ਦਸਤਾਵੇਜ਼ (ਮੁਖੀ ਥਾਹੀ), ਸਾਲਾਨਾ ਫੀਸ (ਰੁਪਏ 3000/-) ਅਤੇ ਬਣਦੀ ਲੈਬ ਫੀਸ (ਜੇਕਰ ਲਾਗੂ ਹੋਵੇ ਤਾਂ) ਪੱਤਰ ਜਾਰੀ ਹੋਣ ਦੀ ਮਿਤੀ ਤੋਂ ਇਕ ਮਹੀਨੇ ਦੇ ਅੰਦਰ-ਅੰਦਰ ਸਬੰਧਤ ਵਿਭਾਗ ਵਿਖੇ ਜਮ੍ਹਾਂ ਕਰਵਾਉਣੇ ਹੋਣਗੇ। ਅਜਿਹਾ ਨਾ ਕਰਨ ਦੀ ਸੂਰਤ ਵਿੱਚ ਨਿਯਮ ਅਨੁਸਾਰ ਬਣਦੀ ਲੈਬ ਫੀਸ ਵਸੂਲ ਕੀਤੀ ਜਾਵੇਗੀ। ਨਿਯਮ ਦੀ ਪਾਲਣਾ ਦੀ ਅਣਹੋਂਦ ਵਿੱਚ ਤੁਹਾਡੀ ਰਜਿਸਟ੍ਰੇਸ਼ਨ ਕੈਂਸਲ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਇਹ ਸਪੱਸ਼ਟ ਹੈ ਕਿ ਰਜਿਸਟ੍ਰੇਸ਼ਨ ਦੀ ਮਿਤੀ ਤੋਂ ਛੇ- ਛੇ ਮਹੀਨੇ ਬਾਅਦ ਫਿਰਮਾ ਦੀ ਪੁਸ਼ਟੀ ਰਿਪੋਰਟਾਂ ਅਤੇ ਇੱਕ ਸਾਲਾਨਾ ਨਿਰੀਖਣ ਪੀਐਚ.ਡੀ. ਆਰਡੀਨੈਂਸ ਵਿੱਚ ਦਿੱਤੇ ਸੈਕਿਊਰਿਟੀ ਅਨੁਸਾਰ ਅਕਾਦਮਿਕ ਖੋਜ ਖਾਤਾ ਵਿਖੇ ਪ੍ਰੋਜੈਕਟ ਕਰਨੇ ਹੋਣਗੇ। ਇਸ ਉੱਪਰੰਤ ਨਿਯਮ ਅਨੁਸਾਰ ਜੁਰਮਾਨਾ ਵਸੂਲਿਆ ਜਾਵੇਗਾ। ਤੁਸੀਂ ਪੀਐਚ.ਡੀ. ਨਾਲ ਸਬੰਧਤ ਹੋਰ ਜਾਣਕਾਰੀ (ਵਾਧੇ ਸਹੀਤੀ ਨਿਯਮ ਆਦਿ) ਯੂਨੀਵਰਸਿਟੀ ਦੀ ਵੈਬਸਾਈਟ punjabuniversity.ac.in ਤੋਂ ਪ੍ਰਾਪਤ ਕਰ ਸਕਦੇ ਹੋ।

ਆਪਣੇ ਸੈਂਟ੍ਰਿਕ ਨਾਂ ਵਿਸ਼ੇ ਦੇ ਬਰਾਬਰ ਦੀ ਪੰਜਾਬੀ ਖਾਸ ਦਾ ਸਕਰੀਪਟਿਕੇਟ ਜੇਕਰ ਪਹਿਲਾਂ ਨਹੀਂ ਦਿੱਤਾ ਤਾਂ ਹੁਣ ਭੇਜ ਦਿੱਤਾ ਜਾਵੇ। ਜੇਕਰ ਤੁਸੀਂ ਇਹ ਪ੍ਰੀਖਿਆ ਖਾਸ ਨਹੀਂ ਕੀਤੀ ਤਾਂ ਹਰ ਹਾਲਤ ਵਿੱਚ ਪੀਐਚ.ਡੀ. ਦੇ ਵਾਈਵਾ-ਵੋਸ (Viva-Voce) ਇਮਤਿਹਾਨ ਤੋਂ ਪਹਿਲਾਂ ਪੰਜਾਬੀ ਖਾਸ ਕਰਨ ਦਾ ਸਬੂਤ ਪੇਸ਼ ਕੀਤਾ ਜਾਵੇ।

ਜੇਕਰ ਤੁਸੀਂ ਇਸ ਯੂਨੀਵਰਸਿਟੀ ਵਿਖੇ ਪਹਿਲਾਂ ਰਜਿਸਟਰਡ ਨਹੀਂ ਹੋ ਤਾਂ ਤੁਸੀਂ ਮਾਈਕ੍ਰੋਸ਼ਨ ਸਕਰੀਪਟਿਕੇਟ ਅਤੇ ਲੋੜੀਂਦੇ ਅਸਲ ਸਕਰੀਪਟਿਕੇਟ ਰਜਿਸਟ੍ਰੇਸ਼ਨ ਖਾਤਾ ਵਿਖੇ ਪੱਤਰ ਜਾਰੀ ਹੋਣ ਦੀ ਮਿਤੀ ਤੋਂ ਇੱਕ ਮਹੀਨੇ ਦੇ ਅੰਦਰ-ਅੰਦਰ ਜਮ੍ਹਾਂ ਕਰਵਾਉਣ ਉੱਪਰੰਤ ਰਜਿਸਟ੍ਰੇਸ਼ਨ ਨੰਬਰ ਅਲਾਟ ਕਰਵਾਓ, ਅਜਿਹਾ ਨਾ ਕਰਨ ਦੀ ਸੂਰਤ ਵਿੱਚ ਨਿਯਮ ਅਨੁਸਾਰ ਲੈਬ ਫੀਸ ਵਸੂਲ ਕੀਤੀ ਜਾਵੇਗੀ।

ਤੁਸੀਂ ਪੀਐਚ.ਡੀ. ਦੌਰਾਨ ਕੋਈ ਹੋਰ ਮੇਜਰ ਪ੍ਰੀਖਿਆ ਨਹੀਂ ਦੇ ਸਕਦੇ।

ਸਹੀ/-
ਸਹਾਇਕ ਰਜਿਸਟਰਾਰ (ਰਿਸਰਚ)

ਪਿੱਠ ਔਰਟ ਨੰਬਰ: 16.S.2/ਰਿਸਰਚ ਮਿਤੀ: 19/4/22

ਉਪਰੋਕਤ ਦਾ ਉਤਰਾ ਹੇਠ ਲਿਖਿਆ ਨੂੰ ਜਾਣਕਾਰੀ ਅਤੇ ਅਕੈਡਮਿਕ ਕਾਰਵਾਈ ਹਿੱਤ ਭੇਜਿਆ ਜਾਂਦਾ ਹੈ:-

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13/4/22
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