



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

#### Index- 2018-2019

Sr.No.	Year of signing MoU	Name of the organization with whom MOU/Collaboration being signed	Duration	Purpose of MOU/Collaboration	List the actual activities under each MOU year-wise	Page No.
1	2018-2019	Institution of Electronics & Telecommunication Engineers (IETE), New Delhi	Two Years	Establishment of IETE Sub-Centre, Jalandhar	1. Technical visit of experts from IETE 2. Webinar by IETE expert	<u>1</u>
2	2018-2019	Centre for Development of Advanced Computing, Mohali	Five years	For promoting Research & Development and creation of human capital in the fields of Biomedical, Electronics, Cyber Security, Software Engineering and allied areas	Student visit to Centre for Development of Advanced Computing (C-DAC)	<u>3</u>
3	2018-2019	Semi-Conductor Laboratory, SAS Nagar	Ten years	Collaboration on Research and Development faculty and Students	Student visit to Semi-Conductor Complex Limited Mohali	<u>8</u>
4	2018-2019	Harvard Business School	One Year	Membership in the India Site License Program	HBP content usage report for DAV	<u>12</u>



		Publishing, UnitedStates		andtheterms associated	Universityfor theperiod of January to March2020.	
5	2018- 2019	Amity University, Noida	Perpetua l	Research Collaboration	Publication	<u>23</u>
6	2018- 2019	NationalInstitute ofTechnology Jalandhar	Perpetua l	Research Collaboration	Publication	<u>24</u>
7	2018- 2019	Universityof Allahabad	Perpetua l	Research Collaboration	Publication	<u>25</u>
8	2018- 2019	NITJalandhar	Perpetua l	Research Collaboration	Publication	<u>26</u>
9	2018- 2019	Kurukshetra University	Perpetua l	Research Collaboration	Publication	<u>27</u>
10	2018- 2019	DAVcollege Chandigarh	Perpetua l	Research Collaboration	Publication	<u>28</u>



पंजाब PUNJAB

Y 411665

Agreement  
Between  
DAV UNIVERSITY JALANDHAR  
&

INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS (IETE), 2, INSTITUTIONAL AREA, LODHI  
ROAD, NEW DELHI 110003

This Agreement is made on 31<sup>st</sup> day of March month, 2017 between the DAV University, Jalandhar, Pin-144012, hereinafter referred to as DAVU which expression shall mean and include its successors in interest and assigns and represented by its representatives, on one part.

AND

The Institution of Electronics and Telecommunication Engineers (IETE), 2, Institutional Area, Lodhi Road, New Delhi 110003 hereinafter referred to as IETE which expression shall mean and include its successors in interest and assigns and represented by its representatives, on the other part.

**BACKGROUND**

WHEREAS DAVU at Jalandhar is a multi-disciplinary institution offering academic programmes across disciplines of sciences, engineering, agriculture and languages.

AND WHEREAS IETE, The Institution of Electronics and Telecommunication Engineers is India's leading recognized professional society devoted to the advancement of Science and Technology of Electronics, Telecommunication & IT. It serves more than 1,25,000 members (including Corporate, Student and ISF members) through various 64 centres, spread all over India and abroad. Government of India has recognized IETE as a Scientific and Industrial Research Organization (SIRO) and also notified as an educational Institution of national eminence.

And whereas, IETE has desired to set-up its sub-centre at DAVU primarily to promote its objectives amongst students and faculty of the region; specifically the activities related to subject domain of ICT, electronics and telecommunication. AND WHEREAS both organizations are desirous to enter into an Agreement for exchange of information and work towards effective partnership between for Human Resource Development and R&D in the chosen area of their association.

Now in witness of the forthwith both the PARTIES hereby acknowledge and agree to collaborate in various areas of mutual interest by entering into this Agreement covering the following action points:

1. DAVU will provide room no. AC213 (20'6" x 18'6") to facilitate IETE to open IETE Jalandhar sub-centre in DAVU.
2. The Centre shall operate for an initial period of 2 years from the date of signing of this Agreement and renewable thereafter for the same period on renegotiated terms.

ATTESTED

Registrar

DAV University, Jalandhar

A. Sharma

Signature  
10069



ਪੰਜਾਬ ਪੰਜਾਬ PUNJAB

Y 411666

3. DAVU shall charge Rs. 10 per sq. feet and Rs. 10 per unit as electricity charges. These rates would be valid for a period of two years and considered for revision thereafter.
4. IETE shall for the purpose of smooth operation of the Sub-Centre shall provide facilities/equipment as per Annexure-I. This will for all times shall remain the property of IETE and maintained by it.
5. DAVU will organize domain specific workshops, trainings, expert talks, technical events, seminars etc. under the banner of IETE sub-centre, DAVU, Jalandhar.
6. The IETE sub-centre shall provide its lab facilities to the students of DAVU.
7. DAVU shall ensure that the property of IETE is kept well maintained and safe.
8. IETE shall not use this facility for any commercial purposes.
9. DAVU shall permit, all time during the currency of the Agreement, an unhindered access to all the office bearers of the sub-centre to the office of the sub-Centre.
10. DAVU shall provide access to Library and research facilities to the office bearers of the sub-centre and that they shall be governed by the rules and regulations of the University as applicable to the faculty and research scholars of the University.
11. IETE Sub-Centre will provide free of cost the training and research facilities as set-up in the sub-centre to the students/faculty of DAVU depending on availability.
12. DAVU can withdraw this facility after giving a prior notice of three months.
13. In case of any disagreement/dispute both the parties shall try to resolve the issue most amicably through mutual discussions, failing which the issue shall be resolved through arbitration as per the applicable Indian Arbitration Act.

IN WITNESS WHEREOF both the parties here to set their hands and sign the Agreement on the day, month, year mentioned above.

Executed in two originals; one to be retained by DAVU and the other by IETE.

*Rishu Dwaraj*  
(*202. Parka Kalu Khudwaj*)  
DAV University Jalandhar

Witness

*Rajesh Sharma*  
RAJESH SHARMA -  
Date: D.F.O.

ATTESTED

*[Signature]*  
Registrar  
DAV University, Jalandhar

*[Signature]*  
Dr. A.K. PAUL; Chairman IETE,  
Jalandhar Sub-centre  
IETE, New Delhi

Witness

*[Signature]*  
(*ER GAGAN DEEPAUL*); Honorary Secretary,  
IETE Jalandhar Sub-centre  
Date:

MEMORANDUM OF UNDERTAINING

Between

DAV UNIVERSITY, JALANDHAR

And

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, MOHALI

This Memorandum of Understanding is made on 06 JUNE 2017 between the DAV UNIVERSITY, Jalandhar, a State Private University having its office on Jalandhar - Pathankot National Highway, JALANDHAR hereinafter referred to as DAV UNIVERSITY which expression shall mean and include its successors in interest and assigns and represented by its representatives.

AND

The CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, MOHALI, a scientific society of the Ministry of Communications and Information Technology, Government of India, established in 1988, having its office at A-34, Phase-VII, Industrial Area, Mohali (Near Chandigarh) - 160071, hereinafter referred to as C-DAC which expression shall mean and include its successor-in office and assigns and represented by its representatives.

BACKGROUND

WHEREAS, DAV UNIVERSITY through its qualified faculty and well equipped laboratories, state of art computer facilities and independent broad band internet connectivity provide ample scope for students to learn round the clock. The institute offers B.Tech, M. Tech, MCA, BCA, BSc, MSc etc in different streams of Engineering and Technology (Electronics, CS, Electrical, Mechanical, Civil, etc.) Facilities to pursue research in these core areas leading to Ph.D. degree are also available in the institute.

AND WHEREAS, C-DAC is primarily an R&D institution involved in the design, development and deployment of world class electronic and IT solutions for economic and human advancements. It caters to the training, consultancy, design and product development needs of the Electronics and Information Technology industry and its allied sectors. The major thrust areas of the Centre in training and R&D are: Multilingual and Heritage Computing, Professional Electronics including VLSI and Embedded Systems, Software Technologies including Open Source software, Cyber Security and Cyber Forensics, Health Informatics including Medical Electronics, PCB Design and Manufacturing, Ubiquitous computing. It also offers M.E programmes in VLSI Design, Electronic Product Design and Technology (EPDT), Embedded Systems and IT (part-time). C-DAC has successfully developed telemedicine network along with various software solutions for health care, it acts as a Resource Centre for Cyber Security and RFID based Systems and has many successful electronic products to its credit.



1 of 5

ATTESTED

  
Registrar  
DAV University, Jalandhar

At present many academic/research activities are going on in DAV UNIVERSITY in the area of Cyber Security, VLSI Design and embedded systems, Software solutions and technologies, Bio-medical Image Processing, Content Based Medical Image Retrieval, Software Technologies and other related Bio-Science/Engineering topics. These areas are overlapping with corresponding areas of interest in C-DAC. For further impetus to such inter-disciplinary areas, some collaborative activities need be encouraged and initiated. Such partnership will help the ongoing research, enhance human resource and provide a wider exposure to students at both the institutions. Accordingly, this MOU will facilitate mutual cooperation and help us to make meaningful research and project proposals for future funding.

#### OBJECTIVES

In witness of the aforesaid, both DAV UNIVERSITY and C-DAC, Mohali

1. Recognizing the importance of research and development in the areas of Biomedical Science, Engineering and Technology, Software Technologies, Multilingual and Heritage Computing, Health Care, Electronics and Cyber Security.
2. Appreciating the need for integrating the reservoir of highly qualified manpower in the fields of expertise at both institutes.
3. Desiring to amalgamate their efforts by pooling their expertise and resources.

Now agree upon, to form a nucleus for promoting Research & Development and creation of human capital in the fields of Biomedical, Electronics, Cyber Security, Software Engineering and allied areas by exploiting the unique expertise, intellectual and infrastructural capabilities of both the parties.

#### SCOPE AND GENERAL ACTIVITIES

Further, in witness of the above both the parties to this MoU shall collaborate on research projects and frame joint proposals for submission to the funding agencies.

1. Shall exchange of research documents/findings on a case to case basis.
2. Provide for joint supervision of PhD Scholars (in case of a Research Project) as per the University rules governing the same.
3. Plan and organize joint conferences/ workshops/Seminars etc.
4. Share laboratory, library and such other resources for the research teams on availability for bilateral applications without any financial burden on either party.
5. Make available research facilities to each other's registered research scholars. To utilize these facilities the research scholars would be considered at par with the research scholars of either of the organization/university.



2 of 5

**ATTESTED**

  
**Registrar**  
**DAV University, Jalandhar**

Further:

- i) Any other activity may be included with mutual consent. To nominate Coordinators as nodal contacts to represent the parties and promote interface so as to plan, implement, monitor, review the various activity schedules from time to time.
- ii) All attempts will be made to ensure that developments and projects are accomplished to a very high degree of quality, with parsimony of time.
- iii) To promote the Exchange of technical staff, research scholars, Faculty, post doctoral fellows & students (including internship).
- iv) The collaborative programme between two parties shall be coordinated by a Coordination committee consisting of one member from each organization.
- v) Research scholars can fulfill the residency requirements from either of the organization/university.
- vi) Visits of faculty, staff and students to each other's campus (during visits, faculty/staff students would be provide appropriate accommodation in hostel/guest houses as per availability)
- vii) Agreement will be made for specific projects separately.

#### FINANCIAL TERMS

There is no direct financial obligation on either Institute unless specifically agreed to. The financial requirement of individual institutions for joint project proposals will be separately mentioned in joint projects while submitting to funding agencies.

#### DURATION

This agreement shall come into effect on the day of the approval by both institutes with an initial duration of five years, which would be revised further for another term of 5 years based on mutual consent.

#### TERMINATION

Either institute may terminate this agreement provided that a written notice to this intent is given to the other Institute at least six months prior to the termination.

#### INTELLECTUAL PROPERTY RIGHT (IPR)

Rights regarding publications, patents, royalty, ownership of software, design, product developed, etc. under the scope of this MOU, shall be decided by the two parties by mutual consent. Intellectual Properties, which are in possession of C-DAC prior to this agreement or to be acquired outside the collaborative project with DAV UNIVERSITY, will remain the exclusive property of C-DAC. Intellectual Properties which are in possession of DAV UNIVERSITY prior to this agreement or to be acquired outside the collaborative project with C-DAC will remain the exclusive property of DAV UNIVERSITY. Intellectual Property/ies that may come about in the course of execution of collaborative project(s) between C—DAC and DAV UNIVERSITY will be the joint property of C-DAC and DAV UNIVERSITY unless otherwise mentioned clearly in project proposals or project specific agreements.



**ATTESTED**



3 of 5

  
**Registrar**  
**DAV University, Jalandhar**

All the expenses towards filing, prosecution and maintenance shall be equally shared.

#### CONFIDENTIALITY

- a) During the Term of MOU, either party may provide to the other proprietary and confidential information that it considers essential for the conduct of any PROJECT at their sole discretion.
- b) PROPRIETARY INFORMATION for the purposes of this AGREEMENT shall include all data, samples discoveries, inventions, technical information, reports, know-how and other information related to and disclosed by either party to the other in any form of written material and it shall be the duty of the receiving party to maintain its confidentiality.
- c) The DAV UNIVERSITY and C-DAC agree to hold PROPRIETARY INFORMATION in confidence and to protect it against disclosure to the public and third parties. Accordingly both DAV UNIVERSITY and C-DAC shall employ protective measures fully commensurate with those used by them to protect their own trade secrets and other confidential information from disclosure to the public and to third parties, but in no event less than ordinary degree of care required by law to preserve the secrecy of information that under such law is deemed confidential. By way of example, such efforts will include the act of obtaining the execution of suitable confidentiality agreements from other parties and from other persons to whom such information is disclosed in the course of execution of the PROJECT and to retrieve the connected documents on completion of the project where given for the same.
- d) The DAV UNIVERSITY and C-DAC agree to use PROPRIETARY INFORMATION only for the specific project during the term of such project.
- e) The DAV UNIVERSITY and C-DAC agree not to copy, reproduce or otherwise reduce to writing any Part of PROPRIETARY INFORMATION except and only as may be reasonably necessary for the PROJECT.
- f) INFORMATION disclosed by either party to the other in the form of result of the study/research originating from the projects under the agreement shall be treated as confidential and should not be shared with any third party, including and country, without the expressed permission of giving party.
- g) Both DAV UNIVERSITY and C-DAC will be free to publish research results out of projects under this agreement that does not contain proprietary information. In case it contains proprietary information decision to publish will be on a mutual consent basis so as to ensure protection of the related intellectual property.
- h) The non-disclosure clause will survive five years from the date expiry of this MOU.

#### CO-ORDINATION COMMITTEE

The following will constitute the Coordination Committee to monitor and review the collaborative program (s) between the two institutions:

- a) Vice Chancellor, DAV UNIVERSITY or his nominee(s)
- b) Director, C—DAC or his nominee(s)
- c) Project Coordinators both from DAV UNIVERSITY and C-DAC



**ATTESTED**  
  
**Registrar**  
**DAV University, Jalandhar**



4 of 5



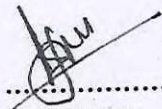
The Coordination Committee shall:

- a) Review the progress of the identified programs (at least once a year)
- b) Consider new R&D proposals for the collaboration and implementation on case to case basis including IPR and financial arrangements.
- c) Consider the addition/deletion of areas of co-operation between the two institutions during review.
- d) Consider the continuance of the MoU

All disputes and differences of any kind whatsoever arising out of or in connection with this MoU that is not resolve shall be referred to arbitration. The decision of arbitrator shall be final and binding on both the parties. The rule of Arbitration and Conciliation Act, 1996 as amended up to shall apply.

IN WITNESS WHEREOF both the parties hereto set their hands and signed the agreement on the day, month and year mentioned above. It has been executed in two originals; one has been retained by C-DAC and the other by DAV UNIVERSITY.

C-DAC, Mohali

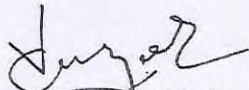


Sh. DK Jain  
Director

Witness



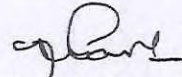
1. Dr. Balwinder Singh  
Principal Engineer & Coordinator



2. Mr. Varun Chhabra  
Project Engineer

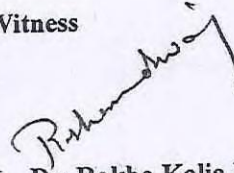
Date: 06-06-2017

DAV UNIVERSITY



Prof. (Dr.) AK Paul  
Vice- Chancellor

Witness



1. Dr. Rakha Kalia Bhardwaj  
Registrar



2. Dr. Jasbir Rishi  
Dean (Academics)

Date: 06-06-2017

**ATTESTED**



Registrar  
DAV University, Jalandhar

5 of 5

MEMORANDUM OF UNDERSTANDING

BETWEEN



SEMI-CONDUCTOR LABORATORY  
DEPARTMENT OF SPACE, GOVERNMENT OF INDIA  
S.A.S. NAGAR

AND



DAV UNIVERSITY  
JALANDHAR

FOR

COLLABORATION ON RESEARCH AND DEVELOPMENT,  
FACULTY AND STUDENT EXCHANGE

1 of 4

*RS*

**ATTESTED**

*[Signature]*

*[Signature]*  
**Registrar**  
**DAV University, Jalandhar**

## MEMORANDUM OF UNDERSTANDING

In furtherance of their mutual interest in the fields of education and research and as a contribution towards increased national cooperation, Semi-Conductor Laboratory, Department of Space, Government of India, having its registered address at Sector 72, S.A.S. Nagar – 160071, Punjab, India (hereinafter referred to as SCL) and DAV UNIVERSITY Having its registered address at SARMASTPUR Jalandhar – Pathankot National Highway (NH 44) JALANDHAR - 144 012, Punjab (INDIA), India (hereinafter referred to as DAV UNIVERSITY) have entered into this Memorandum of Understanding (MOU) on this ~~7th July~~ 7th July ~~2017~~ as set forth below:

### ARTICLE I

The MOU involves collaboration between SCL and DAV UNIVERSITY (both also referred to as institution) in related disciplines.

The two institutions shall seek to promote:

1. Exchange of Staff and Students (Faculty & Research Scholars; Under Graduate, Post graduate & Doctoral Students and Research Project Employees) regarding Academics and Research for the mutual benefit of both institutions.
2. Exchange of Students for pursuing Courses of Study and Academic Programmes for mutual benefit of both institutions.
3. Collaboration in Teaching, Research & Development, and Consultancy Activities.
4. Exchange of Academic and Research Material and Publications/IPs.
5. Cooperation in Projects and Research Activities of mutual interest.
6. Provision of Cultural and Intellectual enrichment opportunities for the Staff and Students of both institutions.
7. Collaboration in Research & Development in the areas of (i) Advanced VLSI Device Fabrication, (ii) MEMS Fabrication, (iii) VLSI Device / MEMS Characterization, (iv) VLSI/CMOS-RF Circuit Design and (v) VLSI Device Modeling at both DAV UNIVERSITY and SCL. This also includes collaboration in setting-up and upkeep of the relevant infrastructure in both the institutions.
8. Publication of Research Papers in International Scientific Journals and in the Conferences.
9. Exchange of Students for Summer/Winter Internships
10. Publication of Intellectual Properties (IPs) developed jointly through Project / Research Collaboration. Such IPs would acknowledge joint inventor-ship of Personnel / Students belonging to both the institutions, as applicable.
11. Writing Books / Booklets jointly in the areas of mutual interest.

2 of 4



ATTESTED



  
Registrar  
DAV University, Jalandhar

## ARTICLE II

The activities under this MOU will include:

1. Staff Exchange

Staff Exchange activities cover visits to either institution for any of the following purposes:

- (i) Undertaking Joint Research
- (ii) Attachment of Staff for purposes of Curriculum Development & Review, Attendance in Courses and Upgrading of Teaching & Research Skills
- (iii) Participation in Seminars, Colloquia and other types of academic discussions
- (iv) Contributions to Teaching Programmes
- (v) Co-supervision of Post Graduate Students
- (vi) Conduct study tours, joint consultancy and research work.
- (vii) Facilitation for pursuing Academic Courses (Post Graduate & Doctoral) for Department of Space / SCL Employees at DAV UNIVERSITY without appearing in Entrance exams/Course work modalities. Whereas, the Lab facility required for carrying out research are available within Semi-conductor Laboratory/ISRO Lab

2. Student Exchange:

Student Exchange activities (for Under Graduate, Post Graduate & Doctoral Students) cover visits to either institution for any of the following purposes:

- (i) Participation in Research
- (ii) Internships for DAV UNIVERSITY Students at SCL

3. Exchange of Academic Materials:

Exchange of relevant Academic Materials will be carried-out subject to mutual agreement of both institutions.

## ARTICLE III

Implementation of cooperation based on this MOU shall be dealt with between the relevant Faculties and Divisions / Departments of both institutions. Wherever necessary, as DAV University plan shall be worked-out for each activity setting-forth detailed arrangements for collaboration. Such plans shall be subject to approval of the appropriate authorities of each institution. To facilitate development of such plans, each institution shall nominate a member of its staff to coordinate activities arising under this MOU.

## ARTICLE IV

Both institutions agree and undertake to keep confidential at all times information and /or data that may be exchanged, acquired and /or shared in connection with the area of cooperation, as mentioned above, unless otherwise the same information already exists in the public domain.

3 of 4

**ATTESTED**

  
**Registrar**  
**DAV University, Jalandhar**



### ARTICLE V

Ownership of findings of any joint research shall be vested in both institutions to this MOU and any publications regarding the same shall only be possible after prior approval from both institutions.

### ARTICLE VI

The MOU shall remain in force for a period of 10 (TEN) years commencing from the date of signing and may be reviewed by mutual consent by serving 3 (Three) months written notice to the other institution. Upon renewal, both institutions shall select either to proceed with the existing or new terms of understanding.

### ARTICLE VII

Both the SCL and DAV UNIVERSITY reserve the right to terminate this MOU by either institution giving 3 (Three) months written notice to the other. Where such termination occurs, the provisions of this MOU shall continue to apply to ongoing activities until their completion.

### ARTICLE VIII

Participating staff and students involved in any activities under this MOU must adhere to the law of the country and the rules & regulations of the host institutions.

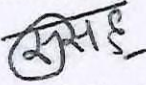
### ARTICLE IX

SCL and DAV UNIVERSITY welcome establishment of this MOU for cooperation and jointly agree to provisions as set out above. There are two copies of this MOU equally valid, one for each institution, effective from the date of its signing.

### ARTICLE X

All disputes and differences of any kind whatsoever arising out of or in connection with this MoU that is not resolved shall be referred to arbitration. The decision of arbitrator shall be final and binding on both the parties. The rule of Arbitration and Conciliation Act, 1996 as amended up to shall apply.

Semi-Conductor Laboratory



Surinder Singh

Director

Witness



Mr. Sanjay Bhatnagar

Group Head - Project Planning Group

Date: 07.07.2017

DAV UNIVERSITY



Prof. Ashok K. Paul

Vice-Chancellor

DAV UNIVERSITY  
JALANDHAR

Witness



Dr. (Mrs.) Rekha Kalia Bhardwaj

Registrar

Date: 07.07.2017

4 of 4

ATTESTED



Registrar  
DAV University, Jalandhar



पंजाब PUNJAB Site License Agreement (\$30 Case Starter)

AK 789293

2019

This Agreement establishes the relationship between **DAV University** and Harvard Business School Publishing (HBSP) regarding membership in the India Site License Program and the terms associated with it.

Harvard Business School Publishing publishes cases, reprints, and book chapters. **DAV University** is a qualified institution of higher learning in India that wishes to use HBSP materials in its management degree, diploma and/or Executive Education programs. Accordingly, HBSP hereby licenses Institution on a non-exclusive basis to use the HBSP Materials specified according to the terms and conditions of this Agreement.

#### Term and Territory

1. This Agreement shall be effective from **May 1, 2019 until April 30, 2020**
2. This Agreement is effective in India only. It excludes programs that the Institution operates at campuses or other locations outside India.
3. Upon the termination of this Agreement, all rights revert to HBSP and Institution shall immediately thereafter discontinue reproduction and sale of the Materials. Within six months after the termination or expiration of the Agreement, a final accounting shall be made.

#### Access to Materials

Institution will obtain electronic access to master copies of and/or links to HBSP materials through HBSP's single click service, and will in turn distribute these copies to its duly enrolled students in print format. Electronic distribution of SingleClick links is not permitted, unless provided for under Schedule W. Unlicensed use of the Materials will result in immediate termination of the Agreement. Institution agrees to the following terms and conditions:

**ATTESTED**

**Registrar**

12

1. Institution is responsible for diligently enforcing the terms of this Agreement, and in particular for seeing that only authorized users can access the products, that only genuine HBSP licensed content is used, and that all information, including the number of actual users, is fully and accurately reported to HBSP. Failure to adhere to these requirements is grounds for immediate termination of this Agreement.
2. Institution will not share its username identification and password beyond those authorized by HBSP policies, and shall not disclose the identity or location of the links from which it accesses Materials.
3. Institution may use electronic masters only for production of course materials during the term of this agreement. Whether protected or unprotected, the content files which contain the electronic masters remain the property of Harvard Business School Publishing, and are authorized for use only by those staff members of Institution involved in course pack production for students. Electronic redistribution of protected or unprotected content files is not permitted. The masters themselves must not be stored, saved, emailed, shared, or posted on any course site. Doing so is in direct violation of the agreement and the school will be held liable for copyright violation.
4. Institution will assign no more than two administrators to be the designated people responsible for downloading master copies and reporting activities. Institution will provide contact information for the administrators to HBSP by emailing acadlicenses@hbsp.harvard.edu.
5. Institution will report to HBSP any violations of these terms, and any unauthorized access to, or unauthorized use of, HBSP materials, and will assist HBSP as requested in any subsequent investigation.

If HBSP notifies Institution of any cases withdrawn Institution agrees to remove such cases from any filing system -- print or electronic -- immediately and to cease the production of these items. Institution shall remove all masters from any filing system within 6 months of use.

Institution agrees not to use any HBSP materials that have not been supplied by HBSP without prior written approval, nor to permit sale or distribution of unapproved versions of HBSP materials. This license supersedes any right and any reporting mechanism of any Reproduction Rights Organization (RRO) or other collective copyright management organization for which Institution might otherwise be eligible.

#### Reporting and Payment

This license covers three payment models:

##### **Flat fee license:**

For Schedule A materials used in the degree-granting programs listed in Schedule K, the fee for this license during the Contract Term is a flat fee calculated as follows:

**ATTESTED**

~~13~~  
Registrar

- o USD \$30.00 for each 1<sup>st</sup> year full time 2 year degree / diploma student enrolled during the Contract Term or any part of the term.
- The account number for these programs will be: 22886018
- HBSP will bill Institution in one installment and will send the invoice upon contract signing. At the end of the contract term, HBSP may issue an additional invoice incorporating any adjustments necessary due to discrepancies between estimated enrollment and actual reported enrollment.

Usage-based payment for open enrolment programs:

- Fees for the following materials used in programs will be based on usage, at a discount of 42% off of current published U.S. academic list prices:
  - o All electronic materials used in programs not listed in Schedule K
  - o Electronic Materials used in Schedule K programs but not listed in Schedule A.
- The account number for these programs will be:
- HBSP will send Institution invoices after each usage report has been processed.

Usage-based payment for Custom Corporate programs:

- Fees for the materials used in "in-company" or company-specific custom executive Education programs will be based on usage, at a discount of 20% off regular academic list prices
- The account number for these programs will be:
- HBSP will send Institution invoices after each usage report has been processed.

Institution will report each period's usage to the HBSP Sales Coordinator based on the schedule below, using the reporting template provided by HBSP:

August 15, 2019

November 15, 2019

February 15, 2019

May 15, 2020

Institution will make every reasonable effort to capture the status of product usage in Executive Education non-degree programs and will accurately report the results thereof. Usage for non-degree Executive Education programs must be reported separately from other orders. Each reporting period will include all days since the last submitted report. A report must be submitted via email even if there was no activity in the period.

Institution will pay invoices generated by HBSP in a timely manner, in accordance with HBSP's terms and conditions as stated on each invoice.

**ATTESTED**

**Registrar**

**DAV University, Jalandhar**



Tax Indemnity:

The payments to be made under the contract are net of all taxes and the Institution shall be responsible for any income tax and Indian indirect taxes like service tax, value added tax, goods and services tax, and other similar taxes, as may be applicable, attributable to the payments made or to be made under this contract to HBSP. The licensee hereby agrees to indemnify, hold harmless from against any and all fines, penalties, taxes (including interest thereon) (collectively "Liabilities") that may arise in India, asserted against HBSP to the extent that such Liabilities result from the default in payment of taxes attributable to the payments made or to be made to HBSP in India.

Copyright and Trademarks

All materials are copyrighted by HBSP or President and Fellows of Harvard College. This license conveys no right, title or interest in the intellectual property comprising the materials other than as specifically provided herein. Institution shall ensure that a printed copyright notice appears on each reproduced copy of the Materials in the format noted in Schedule T. Institution acknowledges that the names, marks, graphics and designs listed in Schedule U are the exclusive property of HBSP and/or President and Fellows of Harvard College. All names, marks, shields, graphics and designs to which this paragraph refers are collectively referred to herein as "trademarks", whether or not registered as trademarks in India.

Institution will promptly notify HBSP if it becomes aware of any piracy, counterfeiting, or other unauthorized use of trademarks or copyrighted material, and shall cooperate with HBSP in responding to such unauthorized use.

Right of Inspection

Institution will maintain books and records to document all copies of the materials accessed by Institution users for a period of not less than two years. HBSP and/or its authorized representatives shall have the right during normal business hours to inspect, at its own expense. Institution books and records insofar as they pertain to the distribution of the materials pursuant to this Agreement. If any inspection discloses inaccurate reporting of past usage, and that inaccurate reporting resulted in over- or under- estimation of the license fee to which HBSP is entitled hereunder, the appropriate amount shall be immediately paid or refunded to the party entitled thereto. Should such audit uncover errors or omissions greater than 10% of what was reported for the period examined, Institution shall reimburse HBSP for the cost of the audit.

**ATTESTED**

  
**Registrar**

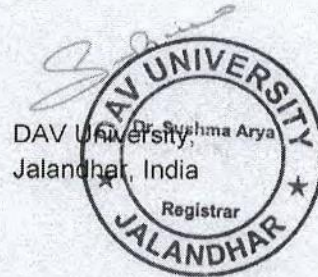
**DAV University, Jalandhar**

Notices

All notices under this license agreement will be sent to:

a. For HBSP:  
Brandon Hight  
Global Sales and Business Solutions Director  
Harvard Business School  
Publishing  
20 Guest Street, Suite 700  
Brighton, Massachusetts 02135  
United States

b. For DAV University



Agreed to on behalf of:

HBSP

DAV University

Brandon Hight

Global Sales and Business Solutions  
Director

Signature

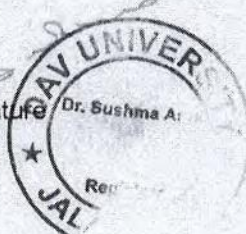
Date:

4/26/19

Signature

Dr. Sushma A.

Date:



**ATTESTED**

Registrar

DAV University, Jalandhar

## SCHEDULE A

### Materials

1. Unrestricted individual Harvard Business School printed Cases and Notes
2. Harvard Business Review reprints, including HBR Article Collections
3. All HBSP Newsletter reprints
4. HBS Press standalone book chapters\*
5. HBSP Brief Cases
6. HBS Color Case items\*\*
7. HBS Case Videos\*\*\*
8. HBS Multimedia Cases\*\*\*
9. Third party case collections and article collections distributed by HBSP

### EXCLUSIONS:

1. HBS Restricted Case items
2. HBS Case Teaching Notes


*\*Book chapters that have not been digitized and provided to Institution via the delivery process specified in this agreement must be cleared through HBSP's Permissions Department.*

*\*\*Color case items must be reproduced in color only. Black and white copies of color cases are in violation of this agreement.*

*\*\*\*This agreement covers permissions-based use of these materials. HBSP will provide single hard copies to be used as masters for reproduction.*

*eLearning materials not listed here are governed by a separate ordering and delivery process and must be obtained by contacting HBSP Customer Service directly.*

  
**ATTESTED**

  
**Registrar**  
**DAV University, Jalandhar**

**SCHEDULE K**

**Programs Covered by Flat Annual Fee**

Product usage in the programs listed below is covered under the flat fee for the duration of the contract term.

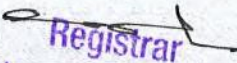
**Degree/Diploma Programs**

Name of Program	Number of Participants	Fee per students (US \$)	Total Fee (US \$)
MBA 1st Year	100	\$30.00	\$3,000.00
Total Fee for Contract term			\$3,000.00

**Invoicing Schedule for Flat Fee account:**

May 15, 2019                      \$3,000.00

**ATTESTED**

  
**Registrar**  
**DAV University, Jalandhar**

**SCHEDULE T**  
**Copyright Notice**

1. HBS Cases:

The credit line and copyright notice specified below shall appear at the bottom of the first page:

Copyright © (year of publication) by the President and Fellows of Harvard College. All rights reserved. Reprinted with permission.

2. Harvard Business Review reprints, HBSP Newsletter reprints, and HBSP Brief Cases:

The credit line and copyright notice specified below shall appear at the bottom of the first page:

Copyright © (year of publication) by Harvard Business School Publishing. All rights reserved. Reprinted with permission.

3. Harvard Business School Press standalone book chapters:

The credit line and copyright notice specified below shall appear at the bottom of the first page:

Copyright © (year of publication) by Harvard Business School Publishing. All rights reserved. Reprinted with permission.

**ATTESTED**

  
**Registrar**

**DAV University, Jalandhar**


## SCHEDULE U

### Rules for Use of Harvard Business School Publishing Names, Trademarks and Logos

All customers and distributors must adhere to the following rules for the use and display of Harvard Business School Publishing names, trademarks and logos. These rules are binding on you, and failure to adhere to them is grounds for termination of the relationship.

1. You are authorized to use the name HARVARD BUSINESS SCHOOL PUBLISHING, HARVARD BUSINESS PUBLISHING, the initials HBSP, and the Harvard Business School shield when accompanied by the HBSP name or initials.
2. With the exception of Paragraph 3, you are not authorized to use the Harvard Business School shield standing alone; nor the names HARVARD, HARVARD BUSINESS SCHOOL, HBS; nor any other variation of the names or shields of Harvard University or Harvard Business School. For example, you may use HARVARD BUSINESS Press, NOT Harvard Business School eLearning.
3. You may use the name HARVARD BUSINESS SCHOOL CASES when referring to those cases.
4. You may use only logo files that we provide to you.
5. You may not register any trademark that contains the word HARVARD, any Harvard shield or logo, the initials HBS or HBSP or any other reference to Harvard, nor any words or marks similar to these.
6. If you have any questions or uncertainty as to these rules, contact us and we will advise you on proper compliance.
7. Harvard Business School Publishing reserves the right to change or amend these rules at any time. If we do, we will notify you and advise you on proper compliance.
8. Advertising copy, marketing materials, or press releases (print or online) referencing the above-mentioned trademarks or using the above mentioned logos must receive prior approval in writing from HBSP.

**ATTESTED**

  
**Registrar**

**DAV University, Jalandhar**

**Harvard Business School Publishing Boilerplate**

The following text may be used at your discretion to acquaint users with HBSP:

**About Harvard Business Publishing**

Harvard Business Publishing was founded in 1994 with a mission to improve the practice of management in a changing world. As part of that mission, the HBP Higher Education group serves the finest learning institutions worldwide with a collection of more than 7500 case studies, journal articles, books, and eLearning programs, including online courses and simulations. Through its Educator's Web Site and regional teaching seminars, Harvard Business Publishing provides teachers and students with the tools to create courses and classrooms that foster transformative business education. For more information, please visit our website at [www.hbsp.harvard.edu/educators](http://www.hbsp.harvard.edu/educators).

**Endorsements**

Publication of endorsements from HBSP customers and/or HBSP staff must be fact-checked with the source prior to publication. HBSP staff quotes must be attributed to the individual with their full name, job title, and HBSP included with the quote.

**URLs**

The URL for the Harvard Business Higher Education Web site is: [www.hbsp.harvard.edu/educators](http://www.hbsp.harvard.edu/educators)

**ATTESTED**

  
**Registrar**

**DAV University, Jalandhar**

**Schedule W**

**Electronic Distribution**

HBSP grants Institution the right to electronically deliver SingleClick links to its students with the following conditions:

Institution will ensure that electronic Materials are only available to students currently registered under this site license agreement and that these materials are only accessible through the Institution's password protected course environment, and cannot be accessed, emailed or distributed through any other method. Furthermore, Institution will ensure that these students have access only to Materials for courses in which they are enrolled.

Institution agrees to communicate HBSP's usage guidelines for Materials distributed electronically to its end users, and agrees to monitor end user behavior to ensure that usage guidelines are followed.

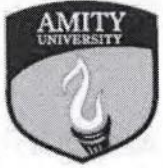
Institution shall take all reasonable precautions to protect HBSP Materials from unauthorized transmission, downloading, printing, or other unauthorized use.

**ATTESTED**

  
**Registrar**

**DAV University, Jalandhar**





# AMITY UNIVERSITY

— UTAR PRADESH —

## AMITY INSTITUTE OF APPLIED SCIENCES

Date: 23<sup>rd</sup> May 2022

### To Whom It May Concern,

It is certified that Dr. Keshav Walia, Faculty member of Physics Department, DAV University Jalandhar Punjab, India is Collaborating with me on various complex research problems of Plasma Physics from 2016 to till date. We are working together on many complex research problems of Plasma Physics. We both are guiding 2 PhD students together.

Dr. Keshav Walia has made outstanding contributions to plasma physics. I wish that our collaboration can make an important contribution to plasma physics.

With regards

Dr. Deepak Tripathi  
Assistant Professor  
Department of Physics  
Amity University, Sector-125, Noida

**ATTESTED**  
  
**Registrar**  
DAV University, Jalandhar

---

Amity University Campus, Sector – 125, Noida – 201 303. Gautam Buddha Nagar, U.P.(INDIA)

Tel.: +91(0)-120-4392884/4392466 Fax: +91(0)-120-2433234

E-mail admissions : [admissions@amity.edu](mailto:admissions@amity.edu) Website: [www.amity.edu](http://www.amity.edu)

RBEF Office: E-27, Defence Colony, New Delhi -110024.

Tel.: 011-24339700 Fax: 011-24339100/24339200.



DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY  
G T Road Bye Pass, JALANDHAR-144008, Punjab (India)

*Dr. Arvinder Singh, Professor  
Former Head, Department of Physics  
Former Dean Students and Alumni*

01-05-2024

**To Whom IT May Concern**

It is certified that Dr. Keshav Walia, Faculty member of Physics Department, DAV University Jalandhar is Collaborating with me on various research problems of Plasma Physics from 2013 to till date. We are working together on many research problems of Plasma Physics.

(Dr Arvinder Singh )

Tel: 9988803134 Website: [www.nitj.ac.in](http://www.nitj.ac.in) FAX: 0181-2690320 Email: [arvinders@nitj.ac.in](mailto:arvinders@nitj.ac.in)

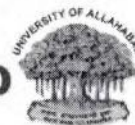
भारतीय विज्ञान-Department of Physics  
डा. बी. आर. अम्बेडकर राष्ट्रीय प्रौद्योगिकी संस्थान  
Dr. B. R. Ambedkar National Institute of Technology  
जलंधर-१४४००८ (पंजाब), भारत  
Jalandhar-144 008 (Punjab), India

**ATTESTED**

**Registrar**  
DAV University, Jalandhar



इलाहाबाद विश्वविद्यालय  
**UNIVERSITY OF ALLAHABAD**  
(A Central University)



**Dr. Girijesh Kumar, Ph. D**  
Assistant Professor  
Department of Chemistry,  
Faculty of Science,  
University of Allahabad  
Senate House Campus,  
University Road, Prayagraj,  
Uttar Pradesh-211002, India

Email: girijeshkumar@allduniv.ac.in;  
girijeshchem@gmail.com  
Tel.: (+91)-8374240984 (India)

April 25, 2024

### To Whom It May Concern

This is to certify that Dr. Ahmad Husain, Associate Professor in the Department of Chemistry at DAV University, Jalandhar, has been collaborating with me in the area of coordination Chemistry since 2017 until the present date. Together, we have been actively working on numerous complex research problems in the field of coordination Chemistry.

*Girijesh Kumar*  
(Dr. Girijesh Kumar)

**ATTESTED**

*[Signature]*  
**Registrar**

**DAV University, Jalandhar**



Reference:

NITJ/ITEP/2024/248.....

Date: 25/4/2024

### To whom it may concern

It is certified that Dr. Sapna Sethi, Associate Professor in the Department of Chemistry at DAV University, Jalandhar has been engaged in collaborative research with undersigned since 2018. We are collaborating together on various research problems of smart polymeric materials. I express my gratitude for Dr. Sethi's unwavering commitment to our shared pursuit of Scientific Knowledge and Innovation.

*Sapna Sethi*  
Dr Sapna Sethi  
Professor HAG & Head ITEP  
NIT Jalandhar



**ATTESTED**

*[Signature]*  
**Registrar**  
DAV University, Jalandhar



**Prof. Amalendu Pal**

**CSIR, Emeritus Scientist**

Department of Chemistry  
Kurukshetra University  
Kurukshetra-136 119 (India)



Tel. (Off.) : 91-1744- 238410, 238629  
Extn. 2684  
(Resi.) : 91-1744-239765  
(Cell) : 09466390043  
Fax : 91-1744-238277  
E-Mail : palchem21@gmail.com

Ref No \_\_\_\_\_

Dated 17-04-2024

**To Whom IT May Concern**

It is certified that Dr. Rekha Gaba, Faculty member of Department of Chemistry, DAV University Jalandhar is Collaborating with me on various research problems related to solution chemistry, thermodynamics and green chemistry from 2013 to till date.

*A.Pal*  
(A.Pal)

**ATTESTED**

**Registrar**

**DAV University, Jalandhar**



# DAV COLLEGE

SECTOR-10, CHANDIGARH, 160010, INDIA

## To Whom IT May Concern

It is certified that Dr. Praveen Guleria, Faculty member of Biotechnology Department, DAV University Jalandhar is Collaborating with me on various research problems of nano-biotechnology from 2018 to till date. We are working together on many research problems of Nanobiotechnology.

Dr. Kulvinder Singh  
Assistant Professor  
DAV College, Sector 10,  
Chandigarh, 160011, India.  
Ph. No. +919788300085  
Email: [kulvinder@davchd.ac.in](mailto:kulvinder@davchd.ac.in); [kulvinderchem@gmail.com](mailto:kulvinderchem@gmail.com)

**ATTESTED**

**Registrar**  
**DAV University, Jalandhar**