



MAHARASHTRA EDUCATIONAL SOCIETY'S

H. K. COLLEGE OF PHARMACY

PRATI KSHA NAGAR OSHIWARA, JOGESHWARI (W), MUMBAI 400102

Affiliated to Mumbai University, Approved by A.I.C.T.E. , P.C. I, D.T.E. & Govt. of Maharashtra

University Code: 738 A.I.C.T.E Approval No. 06/07/MS/PHARM/2008/007 D.T.E Code No. PH3234

VISION: To Be recognized as the Institution providing quality education in Pharmacy to serve the health care sector

Research and development environment

Objectives of the Practice

Maharashtra Educational Society's H. K. College of Pharmacy has the deep sense to formalize the students and create a research and development culture. beneficial partnership between college and an industry for internships and development of students. A valuable opportunity is provided to the students to gain hands-on experience observing work dynamic and develop industry-based skills. The curriculum based theoretical knowledge and exposure to industry helps students' overall development identify students most suitable domain to work after graduations. Objective of this Practice is to give students overall knowledge, skill and competencies and the outcome that industry expects from fresh graduates.

The Context

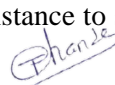
The context of this practice lies in the need to ascertain that the teaching learning process is going on as per the predesigned objectives. To achieve the educational objectives, it is important to ensure that the academic schedule and industrial based training is completed in time. Challenging aspect is for students to commute to the industry for one month for industrial internship as per industry shifts. The students in addition to learning technical skills, they also develop transferable skills such as communication and teamwork. Although the college pedagogy comprises mix of textual and practical learning experience, gaining industry knowledge has unparalleled benefits. These partnership gives them funds for academic research. Students turning into full time employee as a result of partnership can be a powerful public relation tool for universities Partnering with companies allows universities to conduct networking events which are extremely important Partnering with industry gains college more funds and resources.

The Practice

H.K. College has a practice of developing relations with industry for the over the boundary development of students. The college has signed multiple Memorandum of Understanding with versatile industries. This has helped students excel through the horizons over and above their academics. We are also highly engaged in organizing training programs in the forms of webinar and seminars to help student gather the knowledge of research-based implications.

One such practice is MOU signed by Sandoz. Under this MOU our students received training on multiple sophisticated equipment. Our college has received CD14 dissolution apparatus from Teledyne as a part of mutual understanding. Our faculties and students have received hands on training for the same. Public speaking is a integral part of research as students require skills to present papers and proposals. Our college has held hands of students in this aspect too. As a part of MOU signed by Durga Devi Saraf Global business school our students acquired the skills of public speaking. 30 students enrolled for the course where they were able to learn the skill of public speaking, had some motivational talks, gave live presentations, had group discussions and much more. They completed 30 hours of extensive training. Under the same MOU it was also decided that various seminars and workshops will be conducted for students, faculties and non-teaching staff.

Our college encourages research-based programs and seminars by providing financial assistance to students and teachers.


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We have collaborated with Umang pharma to train our students as a part of their internship program. Students get exposed to formulation development and Qa,Qc setup and the knowledge of which can be used in their research projects.

Our college has also signed MOU with Gangwal Health care which is a on industry-based setup for our students. Students work in an on-campus industry-based R&D where they receive monthly stipend for the same. This not only enhance the quality of M pharm projects but also helps students receive an industry-based exposure during their regular tenure of academic course.

Grants received from Government and non-governmental agencies for research projects, endowments in the institution during the last five years (INR in Lakhs)

S No	YEAR	Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
1	2022-2023	0	NA	NA	NA	NA	NA	NA	NA
2	2021-2022	0	NA	NA	NA	NA	NA	NA	NA
3	2020-2021	0	NA	NA	NA	NA	NA	NA	NA
4	2019-2020	Nano formulation to curb the habit of betel quid chewing	Dr. Anagha Raut	Pharmaceutical Analysis & Quality Assurance	2019	0.45	One year	University of Mumbai	Government
5	2019-2020	Development and Evaluation of Nanolipid carrier system for Antiviral drug Atazanavir Sulphate	Dr. Ritesh Fule	Pharmaceutics	2019	0.35	One year	University of Mumbai	Government


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6	2019-2020	Green Synthesis, Characterization and exploring the Anti-cancer activity of metallic nanoparticles using banana flower plant extracts	Dr. Reshma Tendulkar	Pharmaceutical Chemistry	2019	0.25	One year	University of Mumbai	Government
7	2019-2020	Design, synthesis and evaluation of Antiangiogenic and Anti-mitotic potential of the substituted benzothiazoles	Dr. Ojaswi Ghadge	Pharmaceutical Analysis & Quality Assurance	2019	0.50	One year	University of Mumbai	Government
8	2019-2020	Synthesis and Characterization Of Silver And Gold Nano Particles Using Plant Extract	Dr. Vinaykumar Velingkar	Pharmaceutical Chemistry	2019	4.42	One year	Ajman University	Non Government
	2019-2020	AICTE sponsored two week's Faculty Development Program on the theme 'Emerging trends in Pharmaceutical sciences" 25th November to 7th December, 2019	Dr Priyanka Goswami	Pharmacognosy	2019	4.86	2 weeks	All India Council of technical Education	Government

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9	2018-2019	Design and Development of Proniosomal gel mediated transdermal delivery of Luliconazole	Dr. Geeta Bhagwat	Pharmaceutics	2018	0.3	One year	University of Mumbai	Government
10	2018-2019	Formulation and evaluation of Novel Therapy for gout using colchicine nano carrier in transdermal patch	Dr. Mohd. Wais	Pharmaceutics	2018	0.5	One year	University of Mumbai	Government
	2018-2019	One week Faculty development Program, New Paradigm in Pharmaceutical education and research	Dr Vinay Velingkar	Pharm Chemistry	2018	0.7818	Two week	Industry Supported	Non Government

Evidence of Success

- Training program was conducted by Sandoz Novartis on 18th Feb 2022 on their plant, where our faculties and students received training on multiple instruments
- Many students were enrolled for 10 Day Short term public speaking course from 1st August 2022.
- Many seminars were conducted by Scitech on research and innovation for students of our college
- Medley and Umang enroll students for internship and train them for research-based activities
- Our students have received industry-based training on campus from Gangwal Ltd. Students have learnt industry standard formulation and quality assurance activities.
- As a result of the research environment created in our college our students have received multiple awards and recognition over the globe.
- Our faculties have also received awards and recognition for research purpose
- Many students have won research awards in IPA, Avishkar and international conferences
- Owing to the successive culture towards research in our college we have received multiple grants as follows:

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MOU signed by H. K. College of Pharmacy:

LETTER OF COLLABORATION

between

Medley Pharmaceuticals Limited

and

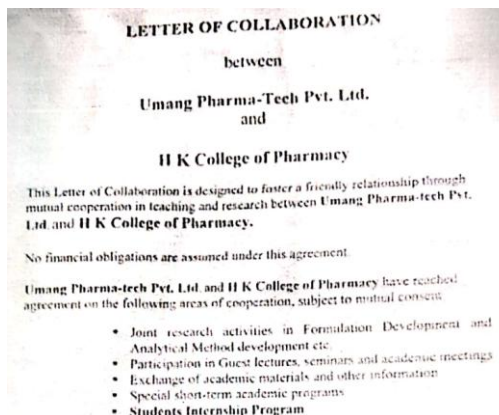
H K College of Pharmacy

This Letter of Collaboration is designed to foster a friendly relationship through mutual cooperation in teaching and research between Medley Pharmaceuticals Limited and H K College of Pharmacy.

No financial obligations are assumed under this agreement.

Medley Pharmaceuticals Limited and H K College of Pharmacy have reached agreement on the following areas of cooperation, subject to mutual consent

- Participation in Guest lectures, seminars and academic meetings
- Special short-term academic programs
- Students Internship Program



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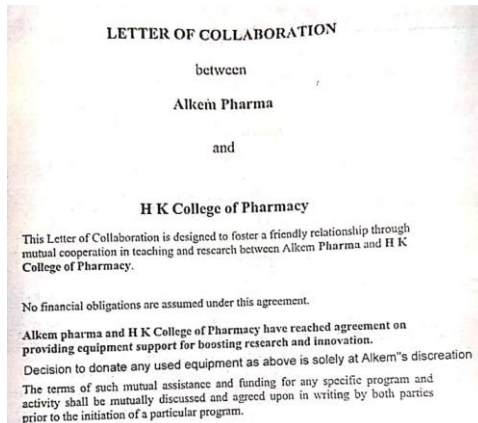
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Gangwal Healthcare Pvt. Ltd.

109, Quaker, Near, Kharadi Link,
Sahakar Nagar, B-14, P. No. 1, Mahal, P. No.
Mumbai - 400 075, Maharashtra
CIN: U85300MH2012PTC035079
PFB: gangwal@hkgangwal.com
www.gangwalhealthcare.com
022-2688 8687

Date: 29th August 2022

Ms. Saba Wahid Khan
C-23 Group no 3, Tagore nagar,
Vikhroli East, Mumbai -400083.
Contact No : 8779598984

Subject: Internship

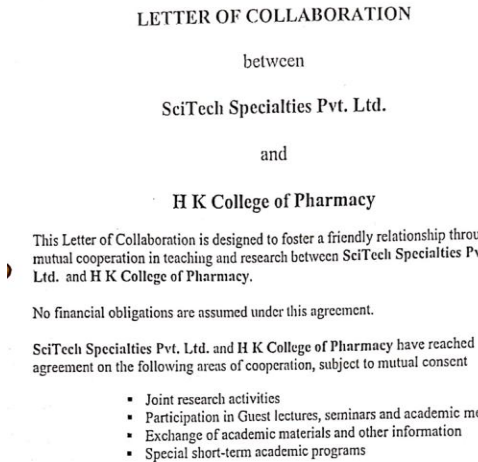
Dear Saha,

In reference to your application we would like to congratulate you on being selected for internship with Gangwal Healthcare Pvt. Ltd. based at Mumbai. Your training is scheduled to start effective 1st September 2022 to 30th June 2023. All of us at Gangwal Healthcare Pvt. Ltd. are excited that you will be joining our team!

As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts through hands-on application of the knowledge you learned in class.

The project details and technical platform will be shared with you on or before commencement of training.

The terms and conditions of your internship with the Company are set forth below:



MEMORANDUM OF UNDERSTANDING

Teledyne Hanson Research

And

H.K. College of Pharmacy

On

Support in Research, Development, Training and Skilling

Date: 15th June 2021 | Place: Mumbai | INDIA


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HIGH COURT
CHENNAI-50
20 JUN 2021

MEMORANDUM OF UNDERSTANDING
ON
ACADEMIC AND RESEARCH COOPERATION
BETWEEN
H K COLLEGE OF PHARMACY
AND
SAVEETHA DENTAL COLLEGE AND HOSPITALS, SIMATS

H K College of Pharmacy HK CAMPUS, Adj. Municipal School, Oshiwara,
Jogeshwari (West), Mumbai – 400 102 Maharashtra, India. and SAVEETHA DENTAL
COLLEGE AND HOSPITALS, SIMATS. 162, Poonamallee High Rd, Velappanchavadi,
Chennai, Tamil Nadu 600077 .considering their common interest in Promoting the
mutual Cooperation in the area of education and research, wish to expand the basis
for friendship and cooperative educational exchange, agreed the following
Memorandum of Understanding (MOU)

MEMORANDUM OF UNDERSTANDING ("MOU")

BETWEEN

H K College of Pharmacy

And

Durgadevi Saraf Global Business School

Agreed and executed on 24th June, 2022

Durgadevi Saraf Global Business School (DSGS) located at RSET Campus, S.V.Road, Malad (West), Mumbai 400064, Maharashtra, India (hereinafter referred to as "DSGS") represented by its authorized signatory Dr. Sarita Viehore, Director, DSGS, which expression shall unless repugnant to the context and meaning thereof include its successors, administrators and permitted assignees.

And

H K College of Pharmacy having located at HK Campus, Relief Road, Oshiwara, Jogeshwari West, Pratiksha Nagar, Mumbai, Maharashtra 400102 represented by its authorized signatory Dr. Madhusudan N. Saraf, Principal, H K College of Pharmacy, which expression shall unless repugnant to the context and meaning thereof include its successors, administrators and permitted assignees.

MOU signed with	Date of signing MoU	Duration of MoU	List the actual activities under each MOU and web -links year-wise
Nutriventia Health care limited	2022-23	One year	Conduct workshop, seminar, Students Internship, Collaborative research
Durga Devi Saraf Business school	4.7.22	Five Year	Conduct workshop, seminar, FDP, Collaborative research, joint college festival
Teledyne Hensen Research and H K College of Pharmacy	15.6.21	One Year	Research and academic projects
Saveetha Dental College and Hospital	20.6.21	Five Years	Conduct workshop, seminar, Students Internship, Collaborative research
Medley	15.8.21	One Year	Conduct workshop, seminar,



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Pharmaceutical Limited			Students Internship, Collaborative research
Alkem Pharma	21.10.21	one year	Conduct workshop, seminar, Students Internship, Collaborative research
Gangwaal Health Care	3.3.2022	Five Years	Development of formulation, support for research and training, patent
Scitech Specialities Pvt Ltd.	12.5.2021	one year	Conduct workshop, seminar, Students Internship, Collaborative research
Umang Pharmatech	15.9.2021	one year	Conduct workshop, seminar, Students Internship, Collaborative research

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Inhouse industry setup at HKCP:

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Problems Encountered and Resources Required

The MOU signed are very active and we are planning to excel the horizons of the same. Few problems we encountered was to balance the academics with the training programs. Another such incidence is with Teledyne Hanson Research. They gave the CD14- dissolution tester but as the need raised, they shifted it their vicinity for convenience. Our students can still access it but is now difficult to reach altogether a different locality. Nevertheless, all these difficulties are well managed for smooth functioning henceforth. One more constraint is financial assistance for research where we have faced some issues. But the same is partly taken care by the research grants and stipends that students received. We would have explored much more in this horizon with a better financial assistance.

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