

Children's Education Society (Regd.)

The Oxford College of Pharmacy

(Recognized by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Science, Karnataka; Approved by Pharmacy Council of India, New Delhi)

Accredited by NAAC and International Accreditation Organization (IAO)

Date: 20/09/2019

CIRCULAR

This is to inform all the students and the teaching staff of The Oxford College of Pharmacy that a workshop titled "**Design of Experiment**" for the academic year 2019-20 will be conducted on 24/09/2019. We request active participation for the same.



The Oxford Callings for I harmacy No 69.1st Gross From the Hangasandra Bangarore - 550 068



Chief Patron

SRI. S.N.V.L Narasimha Raju Chairman,

Institutions, Bangalore. The Oxford Group of

Principal & Professor, TOCP Dr. Padmaa M Paarakh Convener

Mrs. Divya S Kumar Department of **Pharmaceutics** Co-ordinator

Apotex Pharma Limited Mr. Zaheer Abbas Resource Person Senior Scientist Bangalore

ABOUT US

of was established in 1992. TOCP under the aegis of Children's Education Society (R) offers D Pharm, B Pharm, M Pharm, Post PhD The Oxford College Pharm D, Pharm D (TOCP) and Baccalaureate Pharmacy Programs.

TOCP is recognized by the Government of Karnataka, affiliated to Rajiv Gandhi University of Health Sciences, Karnataka, and Drug control Karnataka approved by Pharmacy Council of India, respectively, New Delhi. Board,

"Design of Experiment" Workshop on

24th September 2019 Time: 9 AM-4 PM



Department of Pharmaceutics THE OXFORD COLLEGE OF

No 6/9, 1st Cross, Begur Road, Hongasandr, , Bangalore PHARMACY PIN 560 068

Karnataka, India.

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DEPARTMENT OF PHARMACEUTICS ORGANISED WORKSHOP ON "DESIGN OF EXPERIMENT"

CHIEF PATRON

SHRI S. N. V. L NARASIMHA RAJU
CHAIRMAN
THE OXFORD GROUP OF INSTITUTIONS

CONVENER

Dr. PADMAA M PAARAKH
PRINCIPAL
THE OXFORD COLLEGE OF PHARMACY

ORGANISING SECRETARY

MRS. DIVYA S KUMAR
ASSISTANT PROFESSOR
THE OXFORD COLLEGE OF PHARMACY

RESOURCE PERSON

MR. ZAHEER ABBAS, SENIOR SCIENTIST, APOTEX PHARMA. LTD., BANGALORE

DATE: 24th SEPTEMBER 2019

TIME: 09:00 AM – 4.00 PM







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PREAMBLE

Quality by design (QbD) aims at constant high-quality products in different industries, such as pharmaceuticals, manufacturing, and product development that rely on strategic approaches. This means that companies think through the entire production cycle from conception up to completion.

In terms of pharmaceuticals, quality by design entails optimizing drug development, manufacture and control processes to enhance their safety, efficacy and overall quality. Under this approach, one should understand the critical process parameters (CPPs) concerning the drugs which are the variables controlling different aspects of the manufacturing process and its Critical Quality Attributes (CQAs) – performance defining measurable characteristics.

CONTENT OF THE WORKSHOP

A workshop on Design of Experiments was held on 24th September, 2019. At 9.00 AM., registration of delegates for seminar started. Inaugural function started at 9.30 am and was anchored by Mrs. Divya S Kumar, Assistant Professor, The Oxford College of Pharmacy, Bangalore. In inaugural function, Dr. Padmaa M Paarakh, Principal, The Oxford College of Pharmacy, Bangalore, welcomed, Sri S. N. V. L. Narasimha Raju, President, and Children's Education Society(R) in his absence. She also welcomed Mr. Zaheer Abbas, Senior Scientist, Apotex Pharma. Ltd., Bangalore and Dr. C. Mallikarjuna Shetty, Prof.& HOD, The Oxford College of Pharmacy & Organizing Secretary of the workshop.

Over 40 delegates including teachers and students of The Oxford College of Pharmacy, Bangalore attended the workshop. Mr. Zaheer Abbas had given a presentation on "Optimization techniques in pharmaceutical research and development". A tea break followed after the inaugural session. Scientific session started after tea break. At 11:00 AM, Mr. Zaheer Abbas, Senior Scientist gave an over view of Quality by design. Design expert software, a QBD software was installed personally by all the details after instruction by Mr. Zaheer Abbas He explained all the features of the software and step by step usage of Design expert software by using some examples. At 12.30 pm., lunch break was given. In afternoon session, at 01.30 pm, all the participants used the QBD software as explained, clarified their doubts and showed the results to Mr. Zaheer Abbas. The session was ended by 3:30 PM Valedictory function



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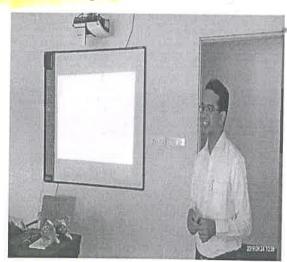
commenced at 3:45 PM. Dr. Padmaa M Paarakh, Principal, The Oxford College of Pharmacy, Bangalore presided over the function. Mr. Zaheer Abbas was the Guest of Honor, Dr. C. Mallikarjuna Shetty, Professor and organizing secretary were present. Dr. Padmaa M Paarakh addressed the gathering and praised about the seminar and acknowledged the contributions and encouragement given by management of The Oxford Educational Institution. Certificates were distributed to all the participants and memento was given to the Mr. Zaheer Abbas, senior scientist. Dr. C. Mallikarjuna Shetty, Professor presented vote of thanks and conveyed his gratitude to all participants and Mr. Zaheer Abbas. Valedictory function was concluded at 4:15 PM.





Inauguration of the workshop





Mr. Zaheer Abbas interacting with participants



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Certificates distribution to the participants

OUTCOME

There were 40 participants in the workshop. After attending the workshop, the participants were able to understand how to plan, conduct, analyze and interpret controlled tests to evaluate factor that control the value of the parameter. DOE is a powerful tool used in different experimental situations. Through this, the input parameters can be controlled and simultaneously helps in determining their effect on response or output. Additionally, the important interactions which are missed when using one factor at a time can be identified by DOE. Overall, the workshop had definitely aid the participants in conducting research using this wonderful modern tool.



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LIST OF PARTICIPANTS

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1,	ANCY ANTONY	Andy s
2.	ANUSHA J R	Anusha.J.R
3.	ASIT BANIK	ASTA
4.	AVEZ AHAMED M	Charles
5.	CHAITHRA K	Chaitra K
6.	CHANDRAKALA S	change
7.	DEEPA KUMARI	Dupper
8.	DINESH TIRUVA L	Dinestop
9.	DINESH	Diverta -
10.	GOVIND R HEGDE	(gross)
11.	HARISH H	Han But
12.	JAYATI BHATTACHARJEE	Tayati
13.	KOUSER	Edouser
14.	KRUTHI N	Knothi N.
15.	LAVANYA G	Landinga 6
16.	MANJULA L	Mamidal
_17.	MANJUNATH M	Maryin
18.	MANOJ KUMAR MANDAL	MKIL
19.	JYOTHI MODI	Lyothi
20.	NARENDRA KUMAR	Varins
21	NAGA CHANUKYA K N	Maga
22	NANDINI S	Nandini &
23	NARENDRA BABU R	Warendra.
24	PAVITHRA V	Javithra'V
25	PRATYUSH	Brunh
26	PRIYANKA S N	Thing ata.
27	RASHMI V	Rashmin
28	RISWANA THASREEM	Rishwana
29	SANTHOSH M	Santhosh M
30	SHUBHAM MISHRA	Shebban
31	SHUBHASHINI R	Shubha
32	SUKANYA E	Dulanya





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33	TEJASWINI B	Jeg -
34	VEERENDRA H M	Vecrene
35	VENKATASWAMY R	Werk
36	BHARATH H N	Bhasath
37	DIVYA T	Dinya.
38	NAGENDRA BABU V M	Nagendra
39	NATASHA VERMA	and
40	RASHMI SINHA	Jal

END OF REPORT







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PARTICIPATION CERTIFICATE

This is to certify that Mr/Ms/Dr/Mrs. Chaithra. K has attended a Workshop

on Design of Experiment held at the Department of Pharmaceutics, The

Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year

2019-20

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Co-ordinator

Mrs. Divya S Kumar Dept. of Pharmaceutics The Oxford College of Pharmacy

HOD

Dr. Mallikarjuna Shetty
Dept. of Pharmaceutics
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PARTICIPATION CERTIFICATE

This is to certify that Mr/Ms/Dr/Mrs. Harish. H has attended a Workshop

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2019-20

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PARTICIPATION CERTIFICATE

This is to certify that Mr/Ms/Dr/Mrs. Rashmi. V has attended a Workshop

on Design of Experiment held at the Department of Pharmaceutics, The

Oxford College of Pharmacy, Bangalore, Karnataka, for the academic year

2019-20



Co-ordinator

Mrs. Divya S Kumar Dept. of Pharmaceutics The Oxford College of Pharmacy



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PARTICIPATION CERTIFICATE

This is to certify that Mr/Ms/Dr/Mrs. Shubham Mishra has attended

Workshop on Design of Experiment held at the Department of

Pharmaceutics, The Oxford College of Pharmacy, Bangalore, Karnataka,

for the academic year 2019-20



The Oxford College of Pharmacy Dept. of Pharmaceutics Mrs. Divya S Kumar

The Oxford College of Pharmacy Dr. Mallikarjuna Shetty Dept. of Pharmaceutics

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The Oxford College of Pharmacy Dr. Padmaa M Paarakh





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PARTICIPATION CERTIFICATE

This is to certify that Mr/Ms/Dr/Mrs. Divya. T has attended a Workshop on

Design of Experiment held at the Department of Pharmaceutics, The Oxford

College of Pharmacy, Bangalore, Karnataka, for the academic year 2019-20

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Co-ordinator

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