

## **BRIEF PROFILE**

- 1. Name** : Dr. Arun Maithani  
**2. Designation** : Professor & Head- Paint Technology  
Dean- Incubation Hub, HBTU Kanpur  
**3. Affiliation** : Department of Paint Technology  
School of Chemical Technology  
Harcourt Butler Technical University,  
Kanpur 208002  
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**6. Contact Number** : +91 9839116802

### **7. Academic Qualifications:**

<b>DEGREE</b>	<b>University</b>	<b>Year</b>
B.Sc.	Kanpur University, Kanpur	1984
B. Tech. Chem. Technology (Paint Tech.)	H.B.T.I., Kanpur (Kanpur University)	1988
M. Tech. Chem. Tech. (Paint Tech.)	H.B.T.I., Kanpur (Kanpur University)	1990
Ph.D. (Chemical Technology)	Uttar Pradesh Technical University, Lucknow	2009

### **8. Industrial Experience:**

- \* Worked as Graduate Engineer Trainee with M/s Vespa Car Co. Ltd., Rae Bareilly, during 1991-92
- \* Worked as Production Officer with Blue Chip Paints Pvt. Ltd., Kanpur in Production, during 1992-93
- \* Worked as Production Executive with Bonita India Ltd., Agra, during 1993-94
- \* Worked as Senior Officer (Production) with Goodlass Nerolac Paints Ltd., Kanpur, during 1994-95
- \* Worked as Manager (Group Quality Control) with Rajdoot paints Ltd., New Delhi, during 1995-96

## 9. Teaching/ Research Experience:

- (a) Lecturer: 1996 to 2006
- (b) Assistant Professor: 2006 to 2009
- (c) Associate Professor: 2009 to 2014
- (d) Professor: 2014 to Present
- (e) Head of Department: 2020 to Present

## 10. Fields of Specialization:

- \* Water-based Paints/ Industrial Paints
- \* Paint Application
- \* Paint Manufacturing

## 11. Papers presented in Conferences, Seminars, Workshops, Symposia

S. N.	Title of the paper presented	Title of Conference/Seminar	Date(s) of the event	Organised by
1.	Paint Defects	Technorama 2012	April 2012	OPT & PACT
2.	Water borne Coatings	Technorama 2012	April 2012	OPT & PACT
3.	Eco-friendly Coatings	PACT VISION SEMINAR	March 2013	PACT
4.	Water borne Coatings	PACT VISION SEMINAR	March 2013	PACT

## 12. Research Publications & Presentations:

1. High-Performance Coatings based on Vinyl Ester Resins, Paint India, October 2006
2. A study on the influence of the temperature on the formation of cardanol- based phenolic resin. 469–476, International Journal of Chemical Kinetics, 45, 2014, <https://doi.org/10.1002/kin.20785>
3. Studies on the effect of concentration of formaldehyde on the synthesis of resole type epoxidized phenolic resin from renewable resource material, Designed Monomers and Polymers, 17:1, <https://doi.org/10.1080/15685551.2013.840469>

4. "Studies on biomass-based polymer from renewable resource material", All India National Seminar on Advance in Materials and Material Selection in Design (AMMSD-2012) organized by Dept. of Mechanical Engineering, HBTI, Kanpur during 24-25 Aug. 2012.
5. 'Modeling and simulation of kinetics of chemical reaction of the cardanol based resin system by *In Situ* polymerization setup', All India National Conference in Recent Trend and Future information Technology (RTFIT-2012) Department of Computer Science and Engineering, HBTI, Kanpur during 22-23 Sept. 2012
6. "Indian and Global Market Scenario of Paint Industry: A Critical review", PACT VISION SEMINAR Water-based Paints and Coatings: Technology adoption with performance & cost justifiability organized by Paints and Coating Technologists" Association (PACT), 10<sup>th</sup> March 2013 at HBTI, Kanpur
7. 'Water-soluble Thermosetting Acrylic Polymers for use in Eco-friendly Coatings', National School on Sustainable Polymers & First Symposium on Advances in Sustainable Polymers, Jan 06-11, 2014, Org. By IIT G
8. 'Studies on the effect of concentration of formaldehyde on the synthesis of resol-type epoxidised phenolic resin from renewable material' in Design monomers and Polymers, vol 17, 2014, Impact Factor 2.21
9. 'A study on the influence of Temperature on the Formation of cardanol-based phenolic Resin', international Journal of Chemical Kinetics, 2014, Wiley Periodicals, Inc, Impact Factor 1.57
10. "Vinyl Ester Resins for Eco-friendly Protective Coating", National School on Sustainable Polymers & First Symposium on Advances in Sustainable Polymers, Jan 06-11, 2014, Org. By IIT G
11. 'Cathodically Electrodepositable Surface Coating Materials for the preparation of Polymer Films based on Multifunctional Polyepoxides', International Symposium PFAM-xxi, Dec. 2012 organised by IIT-Gauhati
12. 'Non Isocyanate Polyurethanes using Glycidyl Acrylate Monomers' in PaintIndia Vol. LXXI-No.2 February 2021
13. 'A Review of different Smart Coatings', Paint India, August 2021
14. 'Emulsion Paints Based on Cowdung od Desi Cow' in E-Book 'Engineers for Aatmnirbhar Bharat' published by SPIU-UP and IET Agra
15. Research Paper entitled 'Synthesis and Characterization of Glycidyl Esters of Acrylic and Methacrylic acids for NIPU Coatings' in International Journal of Advanced Research in Science, Communication, and Technology (IJARSCT), Volume 12, Issue 1, December 2021, ISSN (Online) 2581-9429
16. Book Chapter entitled 'Environment and the Paint Industry' in Book on 'Environment and Unsustainable Human Life, Volume-V (Environmental issues: Climate Change, Ozone, Desertification, Deforestation, and other issues)'

Edited by Dr. M. Z. A. Khan and Dr. Sunil Kumar Verma published by V L Media Solutions, New Delhi

17. Research paper entitled 'Synthesis and Characterization of Non-Isocyanate Polyurethanes using Diglycidyl Ether of Bisphenol Acetone (DGEBA) Epoxy Resin' published in Asian Journal of Chemistry Vol. 34. 2155-2160, July 2022

<https://doi.org/10.14233/ajchem.2022.23855>

18. Research paper entitled 'Synthesis of Non-Isocyanate Polyurethane using Glycidyl Methacrylate and other acrylic monomers' published in Paint India Vol. LXXII-No.7 July 2022, 56-61

19. Research paper entitled 'Formation of urethane linkage using copolymers of glycidyl methacrylate, methyl methacrylate, and butyl acrylate' published in Materials Today: Proceedings. May 2022 <https://doi.org/10.1016/j.matpr.2022.05.309>

20. Research paper entitled 'Utilization of Carbon Dioxide for preparation of Polyurethane coatings without using the toxic Isocyanates' published in Materials Today: Proceedings, October 2022 <https://doi.org/10.1016/j.matpr.2022.09.465>

### 13. Consultancy Projects

S.N.	Title	Agency	Period	Grant/ Amount (Rs)
1.	Painting	TVS Motors,Hosur	July 11- April 2014	Rs. 5.0 lac
2.	Surface Coating	Royal Enfield,Chennai	Sep 13-Jan 14 in 3phase for 15 days each	Rs. 4.5 lac
3.	Coatings: Trouble Shootings	Donaldson India Filter Systems Pvt. Ltd., Gurgaon (Haryana)	July 15-21, 2014	Rs. 1.06 lac
4.	Paint Technology Diploma	Daimler India Commercial Vehicle Ltd., Chennai		Rs. 2.00 lac
5.	Concept of Paint Technology and its Application'	Institute of Research, Development and Training (IRDT), UP;Govt. Polytechnic Campus, Kanpur	Aug 21-25, 2017.	Rs. 1.09 lac
6.	Testing of Paint and paint films	Institute of Research, Development and Training (IRDT), UP;Govt. Polytechnic Campus, Kanpur	August 27-31, 2018	Rs. 1,35,700/-

#### **14. ORGANISATION OF STP/FDP/SEMINARS**

1. Organised a Short Term Course on „Paint & Varnish Manufacturing“ in STEP-HBTI, Kanpur during 02.01.2007 to 27.02.2007 as Co-ordinator
2. Organised a Faculty development Programme „Corrosion Control in Chemical & Allied Industries“ at HBTI, Kanpur during August 22- 29, 2016 as Co-ordinator
3. Organized a One Day Online National Webinar on “Pedagogy” on 28th July 2021 as Chairman
4. One Day National Webinar on “NATIONAL EDUCATION POLICY 2020: A Major Milestone for New India” on 13th August 2021 as Chairman
5. Organized a One Day National Webinar on “HIGH PERFORMANCE POLYMERS FOR PAINTS AND PLASTICS” on 21st August 2021 as Chairperson
6. Organized a One Day National Webinar on “ONLINE EDUCATION IN TECHNICAL INSTITUTIONS: A NEW NORMAL” on 27th August 2021 as chairman
7. Organized a One Day National Webinar on “THEORETICAL AND PRACTICAL ASPECTS OF POWDER COATINGS” on 18th September 2021 as chairman

#### **15. Industrial Projects**

<b>S. N.</b>	<b>Title</b>	<b>Agency</b>	<b>Completed in</b>	<b>Grant/ Amount (Rs.)</b>
1.	Paint Productivity	Allied Paints & Resin Industries. Lucknow	March 2009	0.11 lac
2.	CNSL and BSNL	Laxmi Paints & Varnishes, Kanpur	June 2009	0.02 lac
3.	Production Time for the Paint manufacturing	Allied Paints & Resin Industries. Lucknow	November 2009	0.11 lac
4.	Polyester/ PUDF	Central Excise and Customs, New Delhi	December 2009	0.05 lac
5.	Analysis of Paint Quality on Ambassador Car	Fragrance & Flavour Development Centre, Kanpur	January 2010	0.044 lac

6.	Quality analysis of Computer Printage Cartage	Pioneer Technologies and Distributors, Kanpur	March 2010	0.022 lac
7.	Testing of Paint Raw materials	MSME-Development Institute, Kanpur	October 2010	0.11 Lac
8.	Feasibility of CED Paint Plants	State Bank of India, The Mall, Kanpur	December 2011	0.16 lac
9.	Clear Varnishes	B.V. Varnish Udyog, Almora	December 2011	0.12 lac
10.	Uses of SLES	ODD Herbals Pvt. Ltd. Kanpur	April 2012	0.10 lac

### 16. Research Projects Supervised

Ph.D.- Awarded = 02  
In Progress = 02

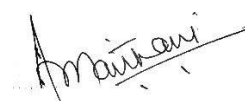
### 17. Training Courses, Teaching-Learning-Evaluation Technology Programmes and Faculty Development Programmes participated

S.N.	Programme	Duration	Organised by
1.	Advances in Engineering materials	March 16-21, 2009	Dept. Of ME, HBTI Kanpur
2.	Software Application in Chemical Engineering and Technology	March 25-29, 2009	TEQIP, HBTI Kanpur
3.	Quality Control Techniques in Oils & Fats	March 2009	TEQIP, HBTI Kanpur
4.	Water-Reducible Binders for Aqueous Coatings	March 20-21, 2010	OTAI, Indian Paint Association and IChE
5.	Advances in Materials & Material Selection in Design	Aug 24-25, 2012	Institution of Engineers
6.	Curriculum Development and Evaluation Methods in Technical education	July 1-6, 2013	PL & ME Dept
7.	Advances in Enzyme Production & their Industrial Application	Dec 19-24, 2013	BEFT Dept.
8.	Development in Perfumery and Cosmetics	February 22-28, 2014	OPT Dept.
9.	Short Term Course on Research Skills and Methods	February 19-21, 2016	IIT Kanpur

10.	Occupational Health and Safety Management Practices	October 3-5, 2016	Engineering Staff College of India
11.	Basic Liquid Chromatography	March 28, 2017	Waters Global Service
12.	Management Capacity Enhancement Programme Incompliance with NBA and NAAC Accreditation	March 29-31, 2017	Engineering Staff College of India
13.	Academic Process for the Implementation of Outcome Based Education	February 19-23, 2018	TCE Madurai & HBTU Kanpur
14.	Outcome based Accreditation for UG Engineering Programs	March 22-23, 2018	UPTTI Kanpur & HBTU Kanpur
15.	Summer Training Program on Active Learning for senior Faculty	June 11-15, 2018	IIT Kanpur
16.	Recent Advances in Chemical Engineering	July 23-27, 2018	Chemical Engg. Dept., HBTU, Kanpur
17.	Material Synthesis and Advanced Characterization Techniques	December 01-04, 2018	Dept. of Chemistry, HBTU Kanpur

Date: 01.11.2022

Place: Kanpur



(Arun Maithani)