# Profile

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| **Name of the Faculty** | Dr. K. Kamalakar |
| **Designation** | Sr. Asst. professor |
| **Department** | Fe |
| **Area of Interest** | Biolubricants |
| **Subjects Taught** | Engineering Chemistry |
| **JNTUH Registration Id** | 4154-170118-171536 |
| **College Staff Code** | SC1935 |
| **Official Mail** | drkamalakar.fe@gcet.edu.in |

## Educational Qualifications:

| S. No. | Degree | Specialization | University/College | Year |
|---|---|---|---|---|
| 1 | Ph.D | CHEMISTRY | KAKATIYA UNIVERSITY | 2016 |
| 2 | PG | ORGANIC CHEMISTRY | JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY | 2007 |
| 3 | UG | MPC | KAKATIYA UNIVERSITY | 2005 |
| 4 | SSC | SSC | BOARD OF SECONDARY EDUCATION | 1998 |

## Publications Details :

| S. No. | Publication details |
|---|---|
| 1. | **Kamalakar K.,** Thirupathi A., Prasad R.B.N., Karuna M.S.L., Vegetable oil-based ethanolamides as potential anti-oxidant additives for lubricant formulations. *Indian J. Chem.,* **2023**, *62*, pp 921-930 |
| 2. | Thirupathi A., **Kamalakar K.,** Siddaiah V., Karuna M.S.L., Madhu D., Epoxy acyloxy castor polyol esters: multifunctional base oil for aviation to marine formulations. *Petroleum Chem.,* **2022,** *62,* pp 1273–1282 |
| 3. | Prabhakara Rao P.G., **Kamalakar K.,** Jyothirmayi T., Karuna M.S.L., Prasad R.B.N., Esters of petroselinic acid containing trachyspermum copticum seed oil: Potential industrial lubricant base stocks. *Indian J. Chem.,* **2020**, *59B*, pp 126-134 |
| 4. | Bindhu H., **Kamalakar K.,** Karuna M.S.L., Aruna P., Karanja oil polyol and rigid polyurethane biofoams thereof for thermal insulation. *J. Renew. Mater.,* **2017,** 5(2), pp 124-131 |
| 5. | **Kamalakar K.,** Mahesh G., Prasad R.B.N., Karuna M.S.L., A novel methodology for the synthesis of acyloxy castor polyol esters: low pour point lubricant base stocks. *J. Oleo Sci.,* **2015**, *64*, pp 1283-1295 |
| 6. | **Kamalakar K.,** Sai Manoj G.N.V.T., Prasad R.B.N., Karuna M.S.L., Influence of structural modification on lubricant properties of sal fat-based lubricant base stocks. *Ind. Crops Prod.,* **2015,** *76*, pp 456-466 |
| 7. | **Kamalakar K.,** Sai Manoj G.N.V.T., Prasad R.B.N., Karuna M.S.L., Thumba (Citrullus colosynthiss L.) seed oil - a potential bio-lubricant base stock. *Grasas y Aceites*, **2015,** *66*, pp 1-10 |
| 8. | **Kamalakar K.,** Sai Manoj G.N.V.T., Prasad R.B.N., Karuna M.S.L., Novel acyloxy derivatives of branched mono- and polyol esters of sal fat: Multiviscosity grade lubricant base stocks. *J. Agric. Food Chem.,* **2014,** *62*, pp 11980-11987 |
| 9 | **Kamalakar K.,** Satyavani T., Mohini Y., Prasad R.B.N., Karuna M.S.L., Synthesis of thumba, castor and sal fatty ethanolamide-based anionic surfactants. *J. Surf. Deterg.,* **2014,** *17*, pp 637-645 |
| 10 | Sravan B.**, Kamalakar K.,** Karuna M.S.L., Aruna P., Studies on organogelation of self assembling bis urea type low molecular weight molecules. *J. Sol-Gel Sci. Technol.,* **2014,** *71*, pp 372-379 |
| 11 | **Kamalakar K.,** Amit K.R., Prasad R.B.N., Karuna M.S.L., Rubbber seed oil-based biolubricant base stocks: a potential source for hydraulic oils. *Ind. Crops Prod.,* **2013,** *15*, pp 249-257 |
| 12 | **Kamalakar K.**, Mohini Y., Karuna M.S.L., Rao B.V.S.K., Prasad R.B.N., Sal fatty acid base biolubricant base-stocks: A potential source for high temperature applications. *J. Lipid Sci. Technol.,* **2013**, *45*, pp 79-85 |

**Experience:**

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| **Teaching** | 6 yrs |
| **Industry** | 0.6 yrs |
| **Research** | 5.3 yrs |
| **Total Experience** | 11.9 yrs |