

### ACADEMIC PROFILE OF FACULTY MEMBER

1. Name: Dr. Geeta Tewari
2. Designation: Associate Professor
3. Qualification: M. Sc., Ph.D., NET, GATE
4. Area of Specialization/Research field: Inorganic Chemistry/Soil and Natural Products Chemistry
5. Awards/Recognitions: Certificate of merit for securing 1<sup>st</sup> Position in M. Sc. Chemistry, Kumaun University, Nainital.  
Young Scientist Award, 2008.  
Women Scientist Award, 2011

6. Number of Research projects:

i) Completed

S/ N	Title of the project	Funding Agency	Amount (Rs.)	Year (From-To)
1.	Studies of heavy metal contamination on agricultural soils and dominant crops as pollution indicator in Tarai region of Kumaun Himalaya, <b>PI</b>	UCOST, Dehradun	7.11 lakh	2009-2011
2.	Remedial Strategies for metal contaminated soils using <i>Mentha</i> and <i>Ocimum</i> species, <b>Co-PI</b>	USERC, Dehradun	11.00 lakh	2010-2012
3.	Studies on heavy metals contamination in polluted soils as pollution indicator, <b>PI</b>	UGC, New Delhi	1.45 lakh	2011-2013
4.	Phytoremediation strategies of heavy metal contaminated soils using <i>Foeniculum</i> and <i>Coriandrum</i> , <b>Co-PI</b>	MOEnF, New Delhi	27.00 lakh	2012-2015
5.	Studies on conservation of <i>Ginkgo biloba</i> Linn. (Ginkgoaceae): A rare exotic medicinal plant, <b>Co-PI</b>	U. G. C., New Delhi	8.018 lakh	2012-2015
6.	Studies on optimization of drying conditions for high quality basil oil, <b>PI</b>	Innovative Research Activities Scheme (U. G. C.), Kumaun University, Nainital	1.05 lakh	2016-2017
7.	Sustainable approach for cleanup of metal polluted soils using basil species with respect to their genetic diversity, <b>Co-PI</b>	GBPNIHE & SD, Kosi, Katarmal, Almora	9.95 lakh	2017-2020

ii) On-going

S/ N	Title of the project	Funding Agency	Amount	Date of Commencement	Expected date of completion
1	National campaign on <i>Tinospora cordifolia</i> (Amrita) for life, <b>Co-PI</b>	Ministry of Ayush, NMPB, New Delhi	18.90 Lakh	2019-2020	2020

7. Number of Ph. Ds awarded: 5

8. Number of candidates working for Ph.D. award: 6

9. Publications:

i) Books

S/N	Author/s	Title	Publisher	Year of publication
1	Lalit M. Tewari, Y.P. S. Pangtey, Geeta Tewari	Biodiversity Potentials of the Himalaya (ISBN no. 85097-82-8)	Gyanodaya Prakashan, Nainital	2010
2	Geeta Tewari	Inorganic Chemistry-I (ISBN No. 978-93-528-3408-2)	S. Chand Publishing, New Delhi	2018
3	Geeta Tewari	Inorganic Chemistry-II (ISBN No. 978-93-528-3323-8)	S. Chand Publishing, New Delhi	2018
4	Geeta Tewari (Editor)	B. Sc. III year, Inorganic Chemistry-III	Uttarakhand Open University, Haldwani	2019
5	Geeta Tewari (Editor)	B. Sc. II year, Laboratory Course	Uttarakhand Open University, Haldwani	2019
6	Geeta Tewari, Ashish Tewari, Lalit M. Tewari, Chitra Pande (Editors)	Natural Products and Their Utilization Pattern, ISBN: 978-1-53618-140-1 (in press)	Nova Science Publishers, NY, USA	2020

ii) Research Articles published

Mention complete list of publications indicating authors, title, name of the journal, year, volume and page numbers.

(A) In Journals

2001

1. Sanjay Sachan, S. K. Singh and **Geeta Kandpal**. Diagnosis of nutritional disorder in wheat and sugarcane by visible deficiency symptoms. *Indian Farmer's Digest*, 34 (11): 26 (November 2001). ISSN No. 0537-1589

2004

2. **Geeta Kandpal**, Bali Ram, P. C. Srivastava and S. K. Singh. Effect of metal spiking on different chemical pools and chemically extractable fractions of heavy metals in sewage sludge. *Journal of Hazardous Materials*, 106B, 133-137 (2004). **IF: 6.434** ISSN No. 0304-3894
3. **Geeta Kandpal**, P. C. Srivastava and Bali Ram. Dynamics of transformation of Pb fractions in polluted soils. *Chemical and Environmental Research (India)*, 13 (1&2), 63-71 (2004).
4. **Geeta Kandpal**, Bali Ram and Prakash Chandra Srivastava. Transformation of cadmium in soils treated with Cd-enriched sewage sludge and cadmium chloride under field capacity and flooding moisture regimes. *Chemical Speciation and Bioavailability*, 16(3&4), 111-118 (2004). **IF:1.362**.

2005

5. **Geeta Kandpal**, P. C. Srivastava and Bali Ram. Kinetics of desorption of heavy metals from polluted soils: influence of soil type and metal source. *Water, Air and Soil Pollution*, 161(1-4), 353-363 (2005). **IF:1.769** ISSN No. 0049-6979

2008

6. **Geeta Tewari**, Lalit Tewari, P. C. Srivastava and Bali Ram. Effect of Soil Type and Moisture Regime on Long-Term Changes in Chemical Fractions of Copper in Polluted Soils. *Chemical and Environmental Research (India)*. 17(1-2), 139-153 (2008).

#### 2009

7. K. Upreti, J. S. Jalal, L. M. Tewari, G. C. Joshi, Y. P. S. Pangtey and **G. Tewari**. Ethnomedicinal uses of Pteridophytes of Kumaun Himalaya, Uttarakhand, India. *Journal of American Science*. 5 (4), 167-170 (2009). ISSN No. 1545-1003
8. G. C. Joshi, L. M. Tewari, N. Lohani, K. Upreti, J. S. Jalal and **G. Tewari**. Diversity of orchids on Uttarakhand and their conservation strategy with special reference to their medicinal importance. *Report and Opinion*. 1 (3), 47-52 (2009). ISSN No. 1553-9873
9. **Geeta Tewari**, Lalit Tewari, P.C. Srivastava and Bali Ram. Chemical Transformation of Copper in Some Sludge Amended Soils. *Archives of Agronomy and Soil Science*. 55(4), 415-427 (2009). ISSN No. 0365-0340
10. Priti Kumari, Lalit M. Tewari, Tapan K Nailwal, Lalit Singh, **Geeta Tewari** and Bibbesh K. Singh. Chromosomal abnormalities arising under the action of antibiotics in *Pisum sativum*. *Nature and Science*. 7(3), 104-111 (2009).
11. Lalit M. Tewari, **Geeta Tewari**, Tapan Nailwal and Y.P.S.Pangtey. Bark Factors Affecting the Distribution of Epiphytic Ferns Communities. *Nature and Science*. 7(5), 76-81 (2009). ISSN No.1545-0740
12. Manisha Pant, Tapan Kumar Nailwal, Lalit M. Tewari, Sanjay Kumar, Priti Kumari, Hemlata Kholia and **Geeta Tewari**. Molecular Characterization of *Valeriana* Species with PCR, RAPD and SDS PAGE. *Nature and Science*. 7(7), 41-49 (2009).
13. Poonam Tripathi, Lalit M. Tewari, Ashish Tewari, Sanjay Kumar, Y.P.S. Pangtey and **Geeta Tewari**. Gymnosperms of Nainital. *Report and Opinion*. 1(3), 82-104 (2009).

#### 2010

14. **Geeta Tewari**, Lalit Tewari, P.C. Srivastava and Bali Ram. Nickel chemical transformation in polluted soils as affected by metal source and moisture regime. *Chemical Speciation and Bioavailability*. 22(3), 141-155 (2010). **IF:1.362** ISSN No. 0954-2299
15. Chitra Pande, **Geeta Tewari**, Charu Singh, Shalini Singh and R.C. Padalia. Chemical composition of the essential oil of *Feronia elephantum* Correa. *Natural Product Research*. 24(19), 1807-1810 (2010). **IF: 1.828**

#### 2011

16. C. Pande, **G. Tewari**, C. Singh and S. Singh. Essential oil composition of aerial parts of *Cyclosporum leptophyllum* (Pers.) Sprague ex Britton & P. Wilson. *Natural Product Research*. 25(6), 592-595 (2011). **IF:1.828**
17. **Geeta Tewari**, P.C. Srivastava, Bali Ram and Neeta Joshi. Transformation of added lead and nickel in different soil conditions: A comparative study. *Researcher*. 3(1), 113-118 (2011). ISSN No. 1553-9865

#### 2012

18. C. Pande, **G. Tewari**, S. Singh and C. Singh. Chemical markers in *Origanum vulgare* L. from Kumaun Himalayas: a chemosystematic study. *Natural Product Research*. 26 (2), 140-145 (2012). **IF:1.828**
19. **G. Tewari**, C. Pande, G. Kharkwal, S. Singh and C. Singh. Phytochemical study of the essential oil from the aerial parts of *Coleus aromaticus* Benth. *Natural Product Research*. 26(2), 182-185 (2012). **IF: 1.828** ISSN No. 1478-6419
20. C. Pande, **G. Tewari**, C. Singh and S. Singh. Chemical composition of the essential oil from the aerial parts of *Bupleurum hamiltonii* Balak from Uttarakhand, India. *Natural Product Research*. 26 (15), 1442-1445 (2012). **IF: 1.828**.
21. **Geeta Tewari**, P. C. Srivastava, Bali Ram and Lalit Tewari. Effect of moisture regime on release of Pb and Zn in long term contaminated soils. *Electronic Journal of Environmental, Agricultural and Food Chemistry*. 11 (3), 205-213 (2012). ISSN No. 1579-4377.

#### 2013

22. **Geeta Tewari** and Chitra Pande. Health risk assessment of heavy metals in seasonal vegetables from north-west Himalaya. *African Journal of Agricultural Research*. 8(23), 3019-3024 (2013). **IF: 0.263** ISSN No. 1991-637X.
23. S. Singh, **G. Tewari**, C. Pande and C. Singh. Variation in essential oil composition of *Ocimum americanum* L. from Kumaun north-western Himalayan region. *Journal of Essential Oil Research*. 25(4), 278-290 (2013). **IF: 1.233** ISSN No. 1041-2905.
24. S. Singh, **G. Tewari**, C. Pande and C. Singh. Chemical variation in volatiles of *Craniotome furcata*: Correlation with soil properties. *Records of Natural Products*. 7(4), 332-345 (2013). **IF: 1.311** ISSN No. 1307-6167.

25. Charu Singh, Shalini Singh, Chitra Pande, **Geeta Tewari**, Veena Pande and Pratibha Sharma. Exploration of antimicrobial potential of essential oils of *Cinnamomum glanduliferum*, *Feronia elephantum*, *Bupleurum hamiltonii* and *Cyclospermum leptophyllum* against foodborne pathogens. *Pharmaceutical Biology*. 51(12), 1607-1610 (2013) **IF: 1.241** ISSN No. 1388-0209.
26. Nidhi Lohani, Lalit M. Tewari, Ravi Kumar, G. C. Joshi, Kamal Kishore, Sanjay Kumar, **Geeta Tewari** and Neeta Joshi. Chemical composition of *Microstylis wallichii* Lindl. From West Himalaya. *Journal of Medicinal Plants Research*. 7(31), 2289-2292 (2013). ISSN No. 1996 0875
27. Vinceta Pandey, Tapan K. Nailwal, Rachana bajpai, **Geeta Tewari**, Kamal Kishor and Lalit M. Tewari. Studies on morphological, chemical and molecular aspects of *Ocimum* species from Central Himalaya, India. *Report and Opinion*. 5(9), 31-35 (2013).
28. **Geeta Tewari**, Devyani Bhatt, Subhash Junne, Ramakant Mundhe, Shivaji Parale and M.M.V. Baig. Municipal solid waste management in Nainital, Uttarakhand: A case study. *QUEST-The Journal of UGC-ASC, Nainital*. 7(3), 288-295 (2013) ISSN No. 0974 5041.

#### 2014

29. Gitu Kunwar, **Geeta Tewari\***, Chitra Pande, Charu Singh and Girish C. Kharkwal. Family Lamiaceae: phytoremediation aspects. *Journal of the Indian Chemical Society*. 91(1), 107-112 (2014). ISSN No. 0019 4522.
30. Vinod Kumar, C. S. Mathela, **Geeta Tewari**, Darshan Singh, A. K. Tewari and K. S. Bisht. Phytochemical analysis and antifungal potential of the essential oils from Himalayan *Erigeron* Species against phytopathogenic fungi. *LWT- Food Science and Technology*. 56(2), 278-283 (2014). **IF: 3.129**. ISSN No. 0023-6438.
31. Vinod Kumar, Chandra Shekhar Mathela, **Geeta Tewari** and Darshan Singh. Antifungal activity of *Nepeta elliptica* Royle ex Benth. oil and its major constituent (7R)-*trans*, *trans*-nepetalactone: A comparative study. *Industrial Crops and Products*. 55, 70-74 (2014). **IF: 3.849**. ISSN No. 0926-6690.
32. C. Singh, S. Singh, C. Pande, **G. Tewari** and G. Kharkwal. Chemical composition of the leaves essential oil from *Cinnamomum glanduliferum* (Wall) Meissn from Uttarakhand, India. *Journal of Essential Oil Bearing Plants*. 17(5), 927-930 (2014). **IF: 0.681** ISSN No. 0972-060X.
33. Deepshikha Punetha, Chitra Pande\*, **Geeta Tewari** and Kiran Tewari. Qualitative variation in *Coriandrum sativum* L. seed oil with manure application. *Indian Perfumer*. 58(2), 27-30 (2014).
34. G. C. Kharkwal, C. Pande, **G. Tewari**, A. Panwar and V. Pande. Composition and antimicrobial activity of the essential oil of *Heracleum lanatum* Michx. from Uttarakhand Himalaya. *International Journal of Scientific & Technology Research*. 3(12), 60-64 (2014). ISSN No. 2277-8616

#### 2015

35. K. Tewari, C. Pande, **G. Tewari**, G. C. Kharkwal and D. Punetha. Volatile constituents of *Geranium wallichianum* D. Don ex Sweet. from north-western Himalayan region. *Journal of the Indian Chemical Society*. 92, 123-125 (2015).
36. G. C. Kharkwal, C. Pande, **G. Tewari**, A. Panwar and V. Pande. Volatile terpenoid composition and antimicrobial activity of flowers of *Melia azedarach* Linn. from north west Himalayas, India. *Journal of the Indian Chemical Society*. 92, 141-145 (2015).
37. N. Lohani, **G. Tewari**, G. C. Joshi, L. M. Tewari, J. Chandra and K. Kishor. Comparative phytochemical analysis of wild and cultivated rhizomes of *Hedychium spicatum* Buch. Ham. of north west Himalaya. *Journal of the Indian Chemical Society*. 92, 105-109 (2015).
38. Deepshikha Punetha, **Geeta Tewari**, Chitra Pande, Girish C. Kharkwal and Kiran Tewari. Investigation on heavy metal content in common grown vegetables from polluted sites of Moradabad District, India. *Journal of the Indian Chemical Society*. 92: 97-103 (2015).
39. Neetu Bora, P. Prasad, **Geeta Tewari** and Lalit M. Tewari. Variation in picrotin and picrotoxin content of *Picrorhiza kurroa* Royle ex Benth rhizomes from Garhwal Himalaya. *Journal of the Indian Chemical Society*. 92, 375-378 (2015).
40. Gitu Kunwar, C. Pande, **G. Tewari**, C. Singh and G. Kharkwal. Effect of heavy metals on terpenoid composition of *Ocimum basilicum* L. and *Mentha spicata* L. *Journal of Essential Oil Bearing Plants*. 18(4), 818-825 (2015). **IF: 0.688** ISSN No. 0972-060X.
41. K. Tewari, **G. Tewari**, C. Pande and G. Kunwar. Volatile constituents of *Artemisia parviflora* Buch.-Ham. ex Roxb. from Kumaun Himalayan region, India. *Journal of Essential Oil Bearing Plants*. 18(1), 195-198 (2015). **IF: 0.688**

42. **Geeta Tewari**, Chitra Pand, Shalini Singh and Charu Singh. Quantification of metal nutrients in *Origanum vulgare* L. collected from North Western Himalayas. *Journal of Chemistry and Applied Biochemistry*. 2(1), 109-114, (2015). ISSN No. 2394-3106
43. Kiran Tiwari, Chitra Pande, **Geeta Tewari**, Gitu Kunwar and Deepshikha Punetha. Variation in the chemical profile of *Agrimonia aitchisonii* Schönb.-Tem. aerial part from Himalayan region. *Open Access Journal of Medicinal and Aromatic Plants*. 6(1), 15-20 (2015). ISSN No. 0974-7877
44. **Geeta Tewari**, Brij Mohan, Kamal Kishor, Lalit M. Tewari and Tapan K. Nailwal. Volatile constituents of *Ginkgo biloba* L. leaves from Kumaun: a source of (*E*)-nerolidol and phytol. *Journal of the Indian Chemical Society*. 92(10), 1583-1586 (2015).
45. **Geeta Tewari**, Brijmohan, Lalit Tewari, Kamal Kishor, Tapan K. Nailwal, Manoj Singh. Comparative phytochemical composition and antimicrobial potential of leaf and twig extracts of *Ginkgo biloba* L. from India. *G- Journal of Environmental Science and Technology*. 2(6), 97-100 (2015). GIF: 0.321 ISSN No. 2322-021X
46. Vinod Kumar, Chandra Shekhar Mathela, **Geeta Tewari** and Ajay Kumar Pandey. Biopesticide potential of (7R)-*trans*, *trans*-nepetalactone and *cis*-lactinophyllum ester in control of mustard aphid, *Lipaphis ersimi* (Kalt.). *Jurnal Teknologi*. 77(2), 19-24 (2015). IF: 0.069 ISSN No. 0127-9696
47. Prasoon K. Joshi, Neeta Joshi, **Geeta Tewari** and Shishir Tandon. Chemical, biocidal and pharmacological aspects of *Origanum* species: A brief review. *Journal of the Indian Chemical Society*. 92, 1603-1615 (2015).
48. Sunita Bhatt, Gitu Kunwar, **Geeta Tewari**, Akanksha Rani and Mamta Bisht. Effect of drying on the quality of essential oil of *Ocimum americanum* L. *ESSENCE-International Journal for Environmental Rehabilitation and Conservation*. 2, 54-62 (2015). ISSN No. 0975-6272
49. Mamta Bisht, Chitra Pande, **Geeta Tewari** and Alkesh Chauhan. Essential oil composition of *Mentha arvensis* cultivated in the Tarai region of Uttarakhand. *Indian Perfumer*. 59(4), 17-20 (2015).

#### 2016

48. Sunita Bhatt, **Geeta Tewari**, Deepshikha Punetha, Jitendra Diwakar and Chitra Pande. Chemical profile of *Ocimum americanum* L. from North-Western Himalayan region: A comparative study. *Indian Perfumer*. 60(1), 23-27 (2016).
49. **Geeta Tewari**, Nidhi Sharma, Sunita Sharma, Chitra Pande, Girish C. Kharkwal, Mamta Bisht, Akanksha Rani and Deepshikha Punetha. Effect of sludge addition on some soil properties under oxic and anoxic environment. *Journal of Chemical Engineering and Chemistry Research*. 3(10), 980-984 (2016).
50. **Geeta Tewari**, Deepti Khati, Lata Rana, Poonam Yadav, Chitra Pande, Sunita Bhatt, Vinod Kumar, Neeta Joshi and Prasoon K. Joshi. Assessment of physicochemical properties of soils from different land use systems in Uttarakhand, India. *Journal of Chemical Engineering and Chemistry Research*. 3(10), 1114-1118 (2016). ISSN No. 2333-9195.

#### 2017

51. Neha Chopra, Brij Upreti, Naveen Pandey, Lalit Tewari and **Geeta Tewari**. Allelopathic effect of *Echinochloa colona* L. and *Cyperus iria* L. weed extracts on the seed germination and seedling growth of rice and soyabean. *Advances in Agriculture*. Article ID 5748524, 1-5 (2017). ISSN No. 2356-654X.
52. P. S. Bungla, **Geeta Tewari**, R. S. Rawal, I. D. Bhatt, L. M. Tewari, Arun Jugran and B Mohan. Comparative in vitro antioxidant activity, morphological and phytochemical profiling of traditional crops from Kumaun Himalaya. *Journal of the Indian Chemical Society*. 94, 181-189 (2017).
53. G. C. Kharkwal, C. Pande, **G. Tewari**, A. Panwar and V. Pande. Terpenoid composition and antimicrobial activity of essential oil from *Torilis japonica* (Houtt.) DC. *Journal of the Indian Chemical Society*. 94, 191-194 (2017).
54. Vinod Kumar, C S Mathela, **Geeta Tewari**, Amit Panwar and Veena Pandey. *In vitro* antimicrobial activity of essential oils and their acetylenic constituents. *Indian Journal of Natural Products and Resource*. 8(1), 63-68 (2017). ISSN No. 0976-0512. NAAS SCORE: 4.08
55. A. Rani, M. Bisht, C. Pande, **G. Tewari**, S. Bhatt and M. Matiyani. Effect of drying on the volatiles of leaves of *Murraya koenigii* (L.) Spreng. *Journal of Essential Oil Bearing Plants*. 20(2), 552-558 (2017). IF: 0.688
56. Gitu Kunwar, Chitra Pande and **Geeta Tewari**. Essential oil composition of the aerial parts of *Mentha spicata* L. *World Journal of Pharmaceutical Research*. 6(6), 853-859 (2017). ISSN No. 2277-7105.
57. P. Kothari, Deepshikha Punetha and **Geeta Tewari**. Effect of different manure application on organic carbon of soil sample from Agra city. *International Journal of Latest Technology in Engineering, Management & Applied Science*. 6(6), 133-135 (2017). ISSN No. 2278-2540.
58. Akanksha Rani, Chitra Pande, **Geeta Tewari** and Kiran Patni. A review on aroma profile of *Cinnamomum* species in north and north east India. *World Journal of Pharmaceutical Research*. 6(11), 200-221 (2017).
59. Lalit M. Tewari, **Geeta Tewari**, Brij M. Upreti, Manoj K. Singh and Tapan Nailwal. Comparative *in vitro* antioxidant activity of extracts of aerial parts of *Ginkgo biloba* L. from Kumaun Himalaya. *World Journal of Pharmaceutical Research*. 6(13), 654-666 (2017).

## 2018

60. Deepshakha Punetha, **Geeta Tewari** and Chitra Pande. Compositional variability in inflorescence essential oil of *Coriandrum sativum* from North India. *Journal of Essential Oil Research*. 30(2), 113-119 (2018). **IF: 1.233**
61. Sheetal Oli, Neha Chopra, Lalit Tewari, Brij Mohan, Naveen Pandey, Mamta Bharti, Neetu Bohra and **Geeta Tewari**. Phytotoxic effect of the extracts of *Parthenium hysterophorus* L. on the germination, seedling growth and biomass of some agricultural crops. *G-Journal of Environmental Science and Technology*. 5(4), 152-157 (2018).
62. Gitu Kunwar, Chitra Pande, **Geeta Tewari**, Sunita Bhatt and Sonal Tripathi. Phytoremedial potential of a new chemotype of *Ocimum kilimandscharicum* Guerke from Kumaun Himalaya. *Journal of Essential Oil Bearing Plants*. 21(3), 623-639 (2018). **IF: 0.688**
63. Sunita Bhatt, **Geeta Tewari**, Chitra Pande and Lata Rana. Impact of drying methods on essential oil composition of *Ocimum americanum* L. from Kumaun Himalayas. *Journal of Essential Oil Bearing Plants*. 21(5), 1385-1396 (2018). **IF: 0.688**

## 2019

64. S. Bhatt, **G. Tewari**, C. Pande, M. Bisht, O. Prakash and L. Rana. Evaluation of antioxidant potential and quality of volatile constituents of fresh and sun dried *Ocimum gratissimum*. *Journal of the Indian Chemical Society*. 96(2), 297-304 (2019). ISSN No.: 00194522; Journal no. (UGC): 11061.
65. Sunita Bhatt, **Geeta Tewari**, Chitra Pande, Om Prakash and Sonal Tripathi. Aroma profile and antioxidant potential of *Origanum vulgare* L.: impact of drying. *Journal of Essential Oil Bearing Plants*. 22(1), 214-230 (2019). **IF: 0.688**
66. M. Bisht, L. Rana, **G. Tewari**, C. Pande and S. Bhatt. Effect of natural drying methods on flavour profile of camphor rich *Ocimum americanum* L. from North India. *Asian Journal of Chemistry*. 31(6), 1321-1326 (2019). ISSN No.: 0970 7077; Journal no (UGC): 8774
67. Mamta Bisht, Chitra Pande, **Geeta Tewari**, Sunita Bhatt and Sonal Tripathi. Effect of zinc on the growth and essential oil composition of *Ocimum gratissimum* L. *Journal of Essential Oil Bearing Plants*. 22(2), 441-454 (2019). **IF: 0.688**
68. Vinod Kumar, C. S. Mathela, Manoj Kumar and **Geeta Tewari**. Antioxidant potential of essential oils from some Himalayan Asteraceae and Lamiaceae species. *Medicine in Drug Discovery*. 1, 100004 (2019). <https://doi.org/10.1016/j.medidd.2019.100004>. ISSN: 2590-0986, Elsevier
69. Deepshakha Punetha, **Geeta Tewari**, Chitra Pande and Sunita Bhatt. Effect of Climatic conditions on the volatile compounds of the aerial parts of *Foeniculum vulgare* *Journal of Essential Oil Bearing Plants*. 22(4), 1093-1103 (2019). **IF: 0.688**
70. Lalit M. Tewari, Lata Rana, Santosh K. Arya, **Geeta Tewari**, Neha Chopra, Naveen C. Pandey, Penny Joshi and Rekha Gahtori. Effect of drying on the essential oil traits and antioxidant potential *J. regia* L. leaves from Kumaun Himalaya. *SN Applied Sciences* 1(12) (2019) Article 1606. Springer Link. [doi.org/10.1007/s42452-019-1575-0](https://doi.org/10.1007/s42452-019-1575-0).

## 2020

71. Sunita Bhatt, **Geeta Tewari**, Chitra Pande, Deepshakha Punetha and Om Prakash. Antioxidative potential and compositional variation among *Origanum vulgare* L. collected from different districts of Kumaun Himalayas, Uttarakhand. *Journal of Essential Oil Research*. 32(2), 121-131 (2020). **IF: 1.233, NAAS Score: 7.01**
72. Khitindra Kr. Singh, Geeta Tewari and Suresh Kumar. Evaluation of groundwater quality for suitability of irrigation purposes: A case study in the Udham Singh Nagar, Uttarakhand. *Journal of Chemistry*. 2020, Article id. 6924026 (2020). [doi.org/10.1155/2020/6924026](https://doi.org/10.1155/2020/6924026). **IF: 1.727, NAAS Score: 7.73. ISSN No. 2090-9063. Scopus and Web of Science, Scopus (57)**
73. Shweta Goyal, Rakshit Pathak, H.K. Pandey, Anjali Kumari, **Geeta Tewari**, N. S. Bhandari and Madhu Bala. Comparative study of the volatile constituents of *Thymus serpyllum* L. grown at different altitudes of Western Himalayas. *SN Applied Sciences*. 2(7) (2020) Article 1208. Springer Link. [doi.org/10.1007/s42452-020-2938-2](https://doi.org/10.1007/s42452-020-2938-2).

## (B) Book chapters

### 2006

1. **Geeta Tewari**, P.C. Srivastava, Bali Ram and Lalit Tewari. Chemical fractions and bioavailability of heavy metals in polluted soils. In: Hudson, Robert C. (ed.), Hazardous Materials in the Soil and Atmosphere: Treatment, Removal and Analysis, pp. 89-115, 2006. **Nova Science Publishers**. New York. ISBN No. 1600212506

### 2009

- Lalit M. Tewari, Sanjay Kumar and **Geeta Tewari**. Role of Science and Technology in National Development. *In* (Eds. Prakash Lakhera) Contemporary Research Papers of Social Sciences Vol-I (Theme: Emerging trends and present scenario of Indian Politics). Ankit Publication, Haldwani, pp. 95-108, 2009.

#### 2010

- Sanjay Kumar, Lalit M. Tewari, Kanchan Upreti and **Geeta Tewari**. Van Panchayat in Uttarakhand, *In*: (Eds. Prakash Lakhera) Contemporary research papers of social sciences Vol II, Mallika Books, Delhi, pp. 301-316, 2010.

#### 2011

- Geeta Tewari** and Shalini Singh. Transfer of heavy metals in vegetables from agricultural soils. *In*: Environment, Development and Society. (B.L. Shah, Divya Upadhyay and Ritesh Shah eds) Durga ma Prakashan, Haldwani, pp. 195-199 (2011) ISBN- 978-81-920509-0-4.

#### 2012

- Geeta Tewari**, P. C. Srivastava, Shalini Singh, Charu Singh, Bali Ram and Lalit Tewari. Transformation of added copper in polluted soils: Effect of moisture regime. Science and technology in Uttarakhand (Eds Rajendra Dobhal, D. P. Uniyal and B. P. Purohit) Proceedings of the IIIrd Uttarakhand State Science and Technology Congress-2008 held at Indian Institute of Technology, Roorkee, Macmillan Advanced Research Series, Macmillan Publishing India Ltd., New Delhi, 212-222, (2012) ISBN-978-935-059-013-3.

#### 2013

- Geeta Tewari**. Investigation on heavy metal transfer in different vegetables. *In*: (Eds Pawan Kumar Bharti) Aquatic environment and toxicology, 156-161 (2013), Aditi Fine Art Press, Delhi, ISBN- 93-5056-236-7.
- Shaini Singh, **Geeta Tewari**, Chitra Pande and Charu Singh. Chemotaxonomy of Wild *Origanum vulgare* L. from Kumaun Himalayas, *In*: (Eds. D.R. Khanna, A. K. Chopra, Gagan Matta, Vikas Singh and Rakesh Bhutiani) Impact of global climate change on earth ecosystems, 103-114 (2013). Biotech Books, New Delhi, DK-228374(HBD) ISBN No. 9788176222730.
- Charu Singh, Chitra Pande, **Geeta Tewari** and Shalini Singh. Terpenoid composition of leaves, seeds and roots of *Cyclosporum leptophyllum*: A comparative study. *In*: (Eds. D.R. Khanna, A. K. Chopra, Gagan Matta, Vikas Singh and Rakesh Bhutiani) Impact of global climate change on earth ecosystems, 115-119 (2013). Biotech Books, New Delhi, DK-228374 (HBD) ISBN No. 9788176222730.

#### 2015

- Geeta Tewari**. Effect of metal sources and incubation period on nickel and copper speciation in polluted soils under oxic and anoxic environment. *In*: (Eds. E. P. Ikemefuna and P. K. Bharti) Soil contamination and conservation, 12-35 (2015). Discovery Publishing House Pvt. Ltd., New Delhi. ISBN No. 93-5056-737-7.
- Deepshikha Punetha, Chitra Pande, **Geeta Tewari**, Sunita Bhatt, Kiran Tewari, Jitendra Diwakar and Sonal Tripathi. Effect of metal contaminated soil on *Foeniculum vulgare*. Recent Trends in Environmental Science and Carbon Management (Eds. Deepak Pant, Anand Giri, Tenzin Dolker and Virbala Sharma), 64-73 (2015). Academic Excellence, New Delhi. ISBN No. 978-93-83246-20-5.

#### 2017

- Jagdish C. Arya, G. C. Joshi, **Geeta Tewari**, Lalit M. Tewari, Naveen Pandey, Brij M. Upreti and Kamal Kishor. 2017. Medicinal uses of some potential ethno-medicinal threatened plants of Tarai region of Udam Singh Nagar, Uttarakhand. *In*: Medicinal and Nutritional Values of Plants, Edited by A. Chauhan and P. K. Bharti. Discovery Publishing House Pvt. Ltd., New Delhi, India, pp. 104-115. ISBN No. 978-93-5056-883-5.
- Lalit M. Tewari, Brij M. Upreti, Neetu Bohra, Mamta Bharti, Naveen Pandey, Neha Chopra, **Geeta Tewari** and Tapan Nailwal. 2017. Conservation of *Ginkgo biloba* L. through *in-vitro* techniques and its molecular characterization. *In*: Microbiological Pharmacological Aspects of Biodiversity, Edited by P. Sharma, N. G. Sharma and P. Sharma. Discovery Publishing House Pvt. Ltd., New Delhi, India, pp. 24-36. ISBN No. 978-93-5056-878-1.
- Geeta Tewari**. Three units (Unit 12: Elements of group 16, pp 278-318; Unit 13: Elements of group 17, pp 319-351; Unit 14: Chemistry of noble gases, pp 352-377) of B. Sc. I, Inorganic Chemistry, Uttarakhand Open University, 2017. ISBN No. 978-93-85740-53-4.

#### 2018

14. **Geeta Tewari**. Four units (Unit 6: Coordination compounds, pp 96-123; Unit 7: Isomerism in coordination compounds, pp 124-165; Unit 8: Oxidation and reduction, pp 166-192; Unit 9: Acids and bases, pp 193-218) of B. Sc. II, Inorganic Chemistry, Uttarakhand Open University, 2018.
15. **Geeta Tewari**. One unit (Persistent organic and radioactive pollutants), M. Sc. (Environmental Science) Programme. IGNOU, Delhi. February 2018.

#### 2019

16. Deepshikha Punetha, **Geeta Tewari**, Chitra Pande, Lata Rana and Sonal Tripathi. Effect of manure on the metal efficiency of *Coriandrum sativum*. In: Zero Waste: Management Practices for Environmental Sustainability (Eds. Ashok K. Rathoure). Chapter 17, 1<sup>st</sup> Edition, CRC Press, Boca Raton, eBook, pp.277-300. ISBN: 9780429059247; ISBN: 978-0-367-18039-3 (Hardback) (2019).

#### (C) Papers in proceedings of seminars

#### 2003

1. **Geeta Kandpal**, Bali Ram, P. C. Srivastava, S. K. Singh and U. P. Sahi. Chemical transformation of Zn in soils polluted by inorganic salts and city sludge; Proc. NSE-12, pp 265-271 (2003).

#### 2011

2. C. Pande, C. Singh, **G. Tewari**, S. Singh and G. Kharkwal. Use of *Mentha arvensis* for phytoremediation. Proceedings of National Seminar on Advances on Natural Products Chemistry and Sustainable Development: 4<sup>th</sup>-5<sup>th</sup> June 2011 at Graphic Era University, Dehradun, pp 57-64 (2011).
3. **Geeta Tewari**, Chitra Pande, Shalini Singh, Charu Singh and Sonal Tripathi. Screening of soils and vegetables for the presence of toxic metals from agricultural belt of Tarai region of Kumaon Himalaya. Proceedings of National Seminar on Advances on Natural Products Chemistry and Sustainable Development: 4<sup>th</sup>-5<sup>th</sup> June 2011 at Graphic Era University, Dehradun, pp 183-192 (2011).
4. Girish C. Kharkwal, Chitral Pande, **Geeta Tewari**, Charu Singh and Shalini Singh. Essential oil composition of fresh leaves of *Bupleurum lanceolatum* Wall from Uttarakhand. Proceedings of National Seminar on Advances on Natural Products Chemistry and Sustainable Development: 4<sup>th</sup>-5<sup>th</sup> June 2011 at Graphic Era University, Dehradun, pp 65-68 (2011).
5. S. Singh, **G. Tewari**, C. Pande and G. Kharkwal. Heavy metal content in agricultural soil and some vegetables of Tarai region of Kumaon Himalaya. Proceedings of UGC and UCOST sponsored National Conference on Environmental Conservation, Sustainable Natural Resources Management and Strategies for Regional Development with reference to Uttarakhand held at DAV College, Dehradun, pp 72-84 (2011).
6. G. Kharkwal, C. Pande, **G. Tewari** and C. Singh. Effect of heavy metal polluted soil on essential oil composition of *Ocimum basilicum*. Proceedings of UGC and UCOST sponsored National Conference on Environmental Conservation, Sustainable Natural Resources Management and Strategies for Regional Development with reference to Uttarakhand held at DAV College, Dehradun, pp 53-59 (2011).
7. C. Singh, C. Pande, **G. Tewari** and G. Kharkwal. Green technology for removal of heavy metals in polluted soil by using *Ocimum basilicum*. Proceedings of UGC and UCOST sponsored National Conference on Environmental Conservation, Sustainable Natural Resources Management and Strategies for Regional Development with reference to Uttarakhand held at DAV College, Dehradun, pp 191-197 (2011).

#### 10. Conference/Seminar organized:

S/N	Status as organizer	Title of the conference/seminar	Year and dates
1	Member Local Organizing Committee	National Seminar on Biotechnology Innovation Systems of India: Policy Measures and Support Mechanisms	6-7 <sup>th</sup> October 2006
2	Member, Organizing Committee and Repertoire	2 <sup>nd</sup> Uttarakhand State Science and Technology Congress, Nainital	15-17 <sup>th</sup> November, 2007
3	Repertoire	Gender and development in the world of work and health with focus on women workers in the agrarian sector	19-20 November, 2010
4	Member, Organizing committee	ETCBI-2011	03-05 November 2011



5	Joint Secretary	ICEFN-2016	27-29 March 2016
6	Member, Organizing committee	Training/Workshop on Orchids	11-13 March 2020
7	Co-Convener	ICEFN&SEM-2019	24-26 May 2019
8	Member	Organizing Committee, National Workshop on “Hands on Training on Classical and Molecular Methods of Lichen Identification”	12-14 March 2020

#### 11. Academic/Administrative positions held

S/N	Chairman/Member/Secretary	Committee/Board	Year (From-To)
1	Member	Advisory Board, BIOINFO Environment and Pollution, International Journal, Bioinfo Publisher, Navi Mumbai, India.	2014
2	Member, Admission Committee	B.Sc. I B.Sc. II M.Sc. I (Chemistry) /I <sup>st</sup> Sem	2008-2009 2009-2010, 2010-2011, 2011-2012 2009 onwards
3	Member	Flying Squad, Kumaun University	2006, 2007, 2018-2019
4	Counselor	IGNOU, D.S.B. Campus, Nainital	2009- 2011
5	In charge	SAF Library, Department of Chemistry, D.S.B. Campus, Nainital	2010 onwards
6	Member	Internal Complaint Committee for the Protection of Women against Sexual Harassment at Work Place, D. S. B. Campus, Nainital	2014 onwards
7	Assistant Superintendent Examination	D. S. B. Campus, Kumaun University, Nainital	2016
8	Member	C.B.C.S. Syllabus preparation committee, Inorganic Chemistry	2018
9	Member	Academic Council, Kumaun University, Nainital	2014-2015, 2016-2017, 2018-2019
10	Member	Court, Kumaun University, Nainital	2015-2016, 2017-2018
11	Co-coordinator, Science Faculty	Pre-Ph.D. Course work	2019
12	Guest Editor	Topical collection, Material Science of SN Applied Sciences (Springer). Recent Advances in Natural and Nanostructured Functional Materials	2019-2020
13	Assistant Proctor	D. S. B. Campus, Nainital,	2014-15, 2015-2016, 2016-2017, 2017-18, 2018-2019
14	ADSW	D. S. B. Campus, Nainital,	2019-2020
15	Reviewer	Industrial Crops sand Products, Journal of Indian Chemical Society, Natural Product Research, Journal of Aromatic and Medicinal Plants, Journal of Essential Oil Research, Journal of Essential Oil Bearing Plants, Defense Life Science Journal	2009 onwards
16	Member	Organizing Committee, 16 <sup>th</sup> Convocation	7 <sup>th</sup> March 2020

16. Membership to professional Organization/Associations:

S/N	Name of the Association/Organizations	Status of the membership
1	Indian Science Congress	Life member
2	Medicinal and Aromatic Plants Association of India	Life member
3	Chemistry Teacher Association	Life member
4	Organization for Women in Science for the Developing World (OWSDW), Italy	Full individual member
5	Essential Oil Association of India	Scientist life member
6	Indian Chemical Society	Fellow member

17. Any other Information:

- Popular articles: 22
- Successfully completed French Language Programme, G.B.P.U.A.&T., Pantnagar.
- Completed Certificate course in Environmental Studies, IGNOU, New Delhi
- Diploma in Computer Application, Hiltron CALC, Haldwani.
- Seminar/workshop/training/conference/orientation programme/ refresher course/short term training:
  - a. Participated in 37<sup>th</sup> workshop on “Radiochemistry and Application of Radio Isotopes” at G.B.P.U.A.&T., Pantnagar during March 24 to April 1, 2000.
  - b. Completed training in the field of “Synthesis, Formulation and Analysis of Synthetic and Botanical Pesticides” at Hindustan Insecticide Limited, Gurgaon (Haryana) during Jan.15 to 31, 2001.
  - c. Completed training in the field of “Formulation, Analysis and Field trials of Synthetic and Botanical Pesticides” at Institute of Pesticide Formulation Technology, Gurgaon (Haryana) during Feb.1 to 15, 2001.
  - d. Participated in National Training course on “Use of Nuclear Techniques in Increasing Agricultural Productivity” at G.B.P.U.A. &T., Pantnagar during July 30 to August 10, 2001.
  - e. Attended training on “Faculty Development Programme (Entrepreneurship development programme)” at Nainital, 24-01-05 to 04-02-05.
  - f. Attended workshop on “Patenting” organized by Deptt. of Biotechnology, Kumaun University, Nainital, 10 March 2006.
  - g. Attended workshop on “Biodiversity” at GBPIHED, Kosi, Katarmal, Almora on 27 -28 March 2006.
  - h. Attended National Seminar on “Biotechnology Innovation Systems of India: Policy Measures and Support Mechanisms” organized by the Deptt. of Biotechnology, Kumaun University, Nainital from 6<sup>th</sup> – 7<sup>th</sup> October 2006.
  - i. Presented a technical paper at First Uttaranchal State Science Congress from 10-11 November 2006 at DIT, Dehradun.
  - j. Completed “Orientation programme” from 12 Feb 2007 to 2 March 2007 at Nainital.
  - k. Attended the Regional Capacity Building Workshop on “Orchids Taxonomy and Conservation”. 22 & 23 March, 2007. (BSI (N.C.) & Wildlife Institute of India, Dehradun.
  - l. Presented a research paper at Second Uttarakhand State Science Congress from 15-17 November, 2007 held at Uttarakhand Academy of Administration, Nainital.
  - m. Participated in the training workshop “Computers in Chemistry” from 22<sup>nd</sup> to 23<sup>rd</sup> November 2007 held at Kumaun University Chemistry Department, S.S.J. Campus, Almora, Uttarakhand.
  - n. Presented a research paper at Third Uttarakhand State Science Congress from 10-11 November, 2008 held at I.I.T., Roorkee.
  - o. Participated in the Industry Academia Coordination Workshop (IACW2008) in the College of Basic Sciences and Humanities, G. B. Pant University of Agriculture and Technology, Pantnagar on November 15, 2008.
  - p. Participated in 13<sup>th</sup> ISCB International Conference on “Interplay of Chemical and Biological Sciences: Impact of Health and Environment” organized by the Department of Chemistry, University of Delhi on 26<sup>th</sup> February to 1<sup>st</sup> March 2009.
  - q. Successfully completed 17 days training cum research methodology course on “Application of Remote Sensing & Geographical Information System for Resource Management and Urban Planning”. 2010
  - r. Attended and presented a paper entitled “Assessment of heavy metal pollution of agricultural soils in tarai region in Fifth Uttarakhand State Science Congress, Doon University, Dehradun, November 10-12, 2010.

- s. Attended National seminar on “Gender and Development in the World of Work and Health with Focus on Women Workers in the Agrarian Sector”. Nainital, 19-20 November, 2010.
- t. Successfully completed 21 days Refresher course in Chemistry at ASC, Nainital from 2<sup>nd</sup> December to 22<sup>nd</sup> December 2010.
- u. Attended National Workshop on Self Instructional Learning Material Development organized by UOU, Haldwani, 24 & 25 January, 2010.
- v. Attended National workshop on “Intellectual Property Rights and Patent Awareness”. Bhimtal Campus, Bhimtal, 6<sup>th</sup> July, 2011.
- w. Attended and presented paper in International conference on “Green Technologies for Environmental Rehabilitation (GTER-2012)” at Gurukul Kangari University, Haridwar, 11<sup>th</sup> to 13<sup>th</sup> February 2012.
- x. Attended National Conference on “Vagyani Mansikta evam Hindi Lekhan” on 26<sup>th</sup> and 27<sup>th</sup> March 2012 at Mahadevi Verma Veedhyapeeth at Ramgarh.
- y. Attended one day National conference on IPR at ASC, Nainital on 1<sup>st</sup> December 2012.
- z. Attended and presented a paper in International Conference at Sidartha Institute of Pharmacy, Dehradun, 12-13<sup>th</sup> January 2013.
- aa. Attended workshop on National e-Governance Plan, at Hermitage, Nainital on 16<sup>th</sup> April 2013.
- bb. Attended and presented paper in 8<sup>th</sup> Uttarakhand State Science Congress, 26-28<sup>th</sup> December 2013 at Doon University, Dehradun.
- cc. Attended National Seminar on Women related issues organized by Women Studies Centre, Kumaun University, Nainital on 1<sup>st</sup> and 2<sup>nd</sup> March 2014 at Nainital Club, Nainital.
- dd. Attended National Workshop on “IPR” held at Hermitage, Kumaun University, Nainital on 15<sup>th</sup> October 2014.
- ee. Completed Short Term Course at Academic Staff College, Kumaun University, Nainital, 15<sup>th</sup> April to 21<sup>st</sup> April 2015 on value education.
- ff. Attended and presented paper in National Conference on “Woman Related Issues” organized by Women Studies Centre, Kumaun University held at Nainital Club, Nainital on 1<sup>st</sup> and 2<sup>nd</sup> September 2015.
- gg. Attended and presented paper in Tenth Uttarakhand State Science Congress. 10-12<sup>th</sup> February, 2016 at Uttarakhand State Council for Science and Technology, Vigyan Dham, Dehradun.
- hh. Attended and presented paper in International conference on “Energy, Functional materials and Nanotechnology” at The Hermitage, Kumaun University, Nainital. 27<sup>th</sup> to 29<sup>th</sup> March 2016.
- ii. Resource Person in Workshop on “Preservation of Library Materials”, G. B. Pant Library, D. S. B. Campus, Kumaun University Nainital on 13<sup>th</sup> April 2016.
- jj. Actively participated in Workshop on “Digital India” at Hermitage, Kumaun University, Nainital on 20/09/2016.
- kk. Attended International Conference on “Fixed Point Theory and Dynamical Systems” at Khurpatal, Nainital during 17-19<sup>th</sup> October 2016.
- ll. Attended workshop on “IPR Issues” at D. S. B. Campus, Kumaun University, Nainital on 2<sup>nd</sup> and 3<sup>rd</sup> December 2016.
- mmm. Presented paper at National Seminar on “Plant and Environment” organized by Botany Department, D. S. B. Campus, Nainital, 27<sup>th</sup> and 28<sup>th</sup> March 2017.
- nn. Presented paper at International Seminar on “Environmental Governance and Sustainable Development” organized by HRDC, Kumaun University, Nainital, 7<sup>th</sup> and 8<sup>th</sup> October 2017.
- oo. Attended “RBPT (Research Based Pedogogy Tool)” National Workshop organized by IISER, Pune and Kumaun University, Nainital from 31<sup>st</sup> July to 02<sup>nd</sup> August 2018.
- pp. Attended workshop on “Gender Sensitization” organized by Women’s Studies Centre, Kumaun University, Nainital on 4<sup>th</sup> October 2018.
- qq. Presented a paper at International Conference on “Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM-2019)” at Nainital on 24<sup>th</sup> to 26<sup>th</sup> May 2019.
- rr. Attended All India Conference on “Intellectuals” at Nainital on 30<sup>th</sup> June 2019.
- ss. Attended workshop on “Sexual harassment of women at workplace (Prevention, Prohibition and Redressal) Act 2013” at ATI, Nainital from 26<sup>th</sup> to 28<sup>th</sup> December 2019.
- tt. Attended National Workshop on “Hands on Training on Classical and Molecular Methods of Lichen-Identification”, 12<sup>th</sup> to 14<sup>th</sup> March 2020.
- uu. Successfully participated in Fifteen day certificate course for college teachers: professional development on “Research Methodology”, 21<sup>st</sup> April to 06 May 2020.

- Invited talks at Mahila Mahavidyalaya, 2011
- Chancellor Award, 2014 to the Ph. D. Scholar Dr. Vinod Kumar for best research in 2014-2015.
- Selected JRF in Defense Laboratory, Jodhpur in 1998.
- Selected Lecturer (Graphic Era Institute of Technology, Dehradun) in 2001.

- Teaching Personnel in the Department of Vety. Biochemistry (UG classes) at College of Vety. Sciences, G.B.P.U.A.&T., Pantnagar from Feb. 1998 to June 1999 (1½ year).
- Teaching experience of UG and PG classes as Visiting Lecturer in Govt. Colleges.
- Lecturer Chemistry, UA Polytechnics (GROUP B from UA Public Service Commission, Hardwar).
- Lecturer Chemistry (Inorganic) (Provincial Higher Education Service, GROUP A from UA Public Service Commission, Hardwar).

Date: 15/06/2020