



**HKBK COLLEGE OF ENGINEERING**

# **Annual Report**

## **AY 2023 - 24**



## HKBK COLLEGE OF ENGINEERING

Name of the College / Institute:	HKBK College of Engineering
Telephone Number:	Fax No: 080-25443813
E-mail:	<a href="mailto:info@hkbk.edu.in">info@hkbk.edu.in</a>
Website:	<a href="http://www.hkbk.edu.in">www.hkbk.edu.in</a>
Address:	# 22/1, Nagawara, Bangalore - 560045.
Location Taluk/ District:	Bangalore
Name of the Principal:	Dr. Mohammed Riyaz Ahmed
Area of Specialization:	Electronics & Communication Engineering.
Ph. No.:	8971079936
Type of College:	Un-aided Religious Minority
Type of College (Day / Evening College):	Day
Year of Establishment:	1997
Recognition Under 2(f), 12(B):	Applied



# HKBK COLLEGE OF ENGINEERING

## PROGRAMS OFFERED

Sl. No.	Program Offered		Year of Est	NBA	NAAC
1	UG	Computer Science Engineering	1997	2023 -2026	2017-2022
		Information Science Engineering	1997	2023 -2026	
		Electronics and Communication Engineering	1997	2022-2025	
		Mechanical Engineering	1997	2015 -2017	
		Civil Engineering	2012	Nil	
		Electrical and Electronics Engineering	2002	2015 -2017	
		Artificial Intelligence and Machine Learning	2021	Nil	
2	PhD	Computer Science Engineering	2014	Nil	
		Electronics and Communication Engineering	2014	Nil	
		Mechanical Engineering	2014	Nil	
		Civil Engineering	2014	Nil	
		Master of Business Administration	2012	Nil	
		Physics	2014	Nil	
		Chemistry	2015	Nil	
		Mathematics	2014	Nil	



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## NUMBER OF STUDENTS ON ROLLS

	<b>Program</b>	<b>I Year</b>	<b>II Year</b>	<b>III Year</b>	<b>IV Year</b>	<b>Total</b>
UG	CSE	189	200	194	180	763
	ISE	126	131	119	107	483
	E&C	188	188	141	55	572
	ME	21	16	15	27	79
	CIV	0	0	0	14	14
	AIML	62	69	57	0	188
	Total		586	604	526	383



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## RESEARCH GUIDE DETAILS

Sl. No.	Name	Department / Research Centre	VTU		Other University		Total no. of Candidates	
			No. of Candidates Registered	No. of Ph. D awarded	No. of Candidates Registered	No. of Ph. D awarded	Registered	Awarded
1.	Dr. Syed Mustafa	CSE	4	02	-	-	04	02
2.	Dr. Sharadha K A	CSE	2	-	-	-	2	-
3.	Dr. Deepak N R	CSE	3	-	-	-	3	-
4.	Dr. Nandhagopal S M	CSE	-	-	-	-	-	-
5.	Dr. Balaji Vijayan	CSE	2	-	-	-	2	-
6.	Dr. C S Nagabhushana	Mathematics	1	0	1	0	2	0
7.	Dr. Chandrakumar. K	Physics	1	0	0	0	1	1
8.	Dr. Syed Abu Sayeed Mohammed	Civil	1		0	0	1	0
9.	Dr. Latha R	ECE	-	-	-	-	-	-
10.	Dr. Suraiya Tarannum	ECE	6	4	-	-	6	4
11.	Dr. Y N Mamatha	ECE	2	-	-	-	2	-
12.	Dr. Venkatesan C	ECE	1	-	-	-	1	-
13.	Dr. B P Pradeep Kumar	ECE	2	-	-	-	2	-
14.	Dr. Maaz Ahmed	ECE	3	-	-	-	3	-
15.	Dr. Basawaraj	Mechanical	1	-	-	-	1	-
16.	Dr. Sanaula P F	Chemistry	2	0	0	0	2	0



## **HKBK COLLEGE OF ENGINEERING**

### **DETAILS OF TEACHING STAFF**

<b>Sl. No.</b>	<b>Designation</b>	<b>No. of Teachers</b>
1	Professors	23
2	Associate Professor	19
3	Assistant Professor	94
	Total	131

### **DETAILS OF NON-TEACHING STAFF**

<b>No. of male staff</b>	<b>No. of female Staff</b>	<b>Total</b>
54	77	131



## HKBK COLLEGE OF ENGINEERING

### CONSOLIDATED STATEMENT SHOWING THE DETAILS OF NO. OF BOOKS AND RESEARCH PAPERS PUBLISHED, NO. OF CONFERENCES / SEMINARS ATTENDED / CONDUCTED ETC

Sl. No.	No. of Books Published	No. of Research Paper Published	No. of Conference / Symposium / Seminar conducted by the College	No. of Conference / Symposium / Seminar attended by the teachers		No. of invited Lectures delivered by the Teachers	Remarks
				Foreign	National		
1.	15	64	27	10	13	6	



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### BOOKS PUBLISHED BY FACULTY

Sl. No.	Title	Author/s	Year of Publication	Name of the Publisher/s	Remarks
1.	Machine Learning in the Healthcare Sector and the Biomedical Big Data: Techniques, Applications, and Challenges	Dr. Tabassum Ara	2024	CRC Press	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9781032634050-18/machine-learning-healthcare-sector-biomedical-big-data-tanvir-habib-sardar-amina-khatun-souvik-sengupta-yusuf-alam-tabassum-ara">https://www.taylorfrancis.com/chapters/edit/10.1201/9781032634050-18/machine-learning-healthcare-sector-biomedical-big-data-tanvir-habib-sardar-amina-khatun-souvik-sengupta-yusuf-alam-tabassum-ara</a>
2.	Machine learning and IOT	Prof. Sarumathi.S	2023	RK Publications	<a href="https://doi.org/10.5281/zenodo.10613057">https://doi.org/10.5281/zenodo.10613057</a>
3.	Research Methodology-Methods and Techniques	Prof. Sarumathi.S	2023	RK Publications	<a href="https://doi.org/10.5281/zenodo.10613073">https://doi.org/10.5281/zenodo.10613073</a>
4.	Supply Chain Management – Concepts and Fundamentals	Dr. Sharada K A	2024	BR Publications	<a href="https://doi.org/10.5281/zenodo.10863607">https://doi.org/10.5281/zenodo.10863607</a>
5.	AI and Blockchain technology for secure smart grid and power distribution automation	Zahira Tabassum	2024	IGI Global	AI and Blockchain Applications in Industrial Robotics pp. 226-252, IGI Global. <a href="https://www.igi-global.com/chapter/artificial-intelligence-and-blockchain-technology-for-secure-smart-grid-and-power-distribution-automation/336081">https://www.igi-global.com/chapter/artificial-intelligence-and-blockchain-technology-for-secure-smart-grid-and-power-distribution-automation/336081</a>
6.	AI and Blockchain Fundamental : Their Convergence in the Realm of Industrial Robotics	Rashmi Rani S	2024	IGI Global	AI and Blockchain Applications in Industrial Robotics pp. 1-32 <a href="https://www.igi-global.com/chapter/ai-and-blockchain-fundamentals/336073">https://www.igi-global.com/chapter/ai-and-blockchain-fundamentals/336073</a>
7.	Comparative Analysis of Blockchain Technology in Healthcare	Dr. Sanjana Prasad	2024	Springer	Congress on Intelligent Systems pp. 261-274, Singapore: Springer Nature Singapore <a href="https://link.springer.com/chapter/10.1007/978-981-99-9043-6_22">https://link.springer.com/chapter/10.1007/978-981-99-9043-6_22</a>
8.	AI and Blockchain for Industrial Robotics: Ethical, Legal and Social Implications	Dr. Sanjana Prasad	2024	IGI Global	AI and Blockchain Applications in Industrial Robotics, pp. 33-57 <a href="https://www.igi-global.com/chapter/ai-and-blockchain-for-industrial-robotics/336074">https://www.igi-global.com/chapter/ai-and-blockchain-for-industrial-robotics/336074</a>
9.	AI Tools for Efficient Writing and Editing	Rashmi Rani S	2024	IGI Global	<a href="https://www.igi-global.com/chapter/ai-tools-for-efficient-writing-and-editing/346249">https://www.igi-global.com/chapter/ai-tools-for-efficient-writing-and-editing/346249</a>
10.	Internet and Web Technology	Dr.Komala C R	<b>Feb 2023</b>	Scientific International Publishing House	<a href="https://www.flipkart.com/internet-web-technology/p/itmd3633a41622a0?pid=9789357575874&amp;lid=LSTBOK9789357575874RIINMO&amp;marketplace=FLIPKART&amp;cmpid=content_book_8965229628_gmc">https://www.flipkart.com/internet-web-technology/p/itmd3633a41622a0?pid=9789357575874&amp;lid=LSTBOK9789357575874RIINMO&amp;marketplace=FLIPKART&amp;cmpid=content_book_8965229628_gmc</a>





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11.	Fog Computing-Integrated ML-Based Framework and Solutions for Intelligent Systems: Digital Healthcare Applications	Dr.Komala C R	Feb 2023	IGI Global Book Chapter, Technological Advancements in Data Processing for Next Generation Intelligent Systems	<a href="https://www.igi-global.com/chapter/fog-computing-integrated-ml-based-framework-and-solutions-for-intelligent-systems/342150">https://www.igi-global.com/chapter/fog-computing-integrated-ml-based-framework-and-solutions-for-intelligent-systems/342150</a>
12.	Machine Learning-Integrated IoT-Based Smart Home Energy Management System	Dr.Komala C R	2023	Handbook of Research on Deep Learning Techniques for Cloud-Based Industrial IoT, IGI Global Publisher	<a href="https://www.igi-global.com/chapter/machine-learning-integrated-iot-based-smart-home-energy-management-system/325944">https://www.igi-global.com/chapter/machine-learning-integrated-iot-based-smart-home-energy-management-system/325944</a>
13.	Introduction To Big Data and Data Analytics Using R	Prof. Vaishali Gajendra Shende, Dr. Chandrakala B, Dr. S. Sreelakshmi Dr. Rakesh Verma	2023	Scientific International Publishing House	<a href="https://www.besanttechnologies.com/data-analytics-courses?utm_source=google_adwords&amp;utm_medium=ppc&amp;utm_campaign=DataAnalytics_Bangalore&amp;utm_content=suresh&amp;gad_source=1&amp;gclid=CjwKCAjw88yxBhBWEiWA7cm6pR2xc_WgZnFstl62Ky3GyGzwy3sUDq_UKVZupzjIeOOGTwLnXhNX3BoCGWIQA_vD_BwE">https://www.besanttechnologies.com/data-analytics-courses?utm_source=google_adwords&amp;utm_medium=ppc&amp;utm_campaign=DataAnalytics_Bangalore&amp;utm_content=suresh&amp;gad_source=1&amp;gclid=CjwKCAjw88yxBhBWEiWA7cm6pR2xc_WgZnFstl62Ky3GyGzwy3sUDq_UKVZupzjIeOOGTwLnXhNX3BoCGWIQA_vD_BwE</a>
14.	Industrial Safety	Dr. Salim Sharieff Dr. Nadeem Pasha K	2023	Scientific International Publishing House	<a href="https://www.flipkart.com/industrial-safety/p/itmbd64a16d8aed9">https://www.flipkart.com/industrial-safety/p/itmbd64a16d8aed9</a>
15.	Renewable Energy & resources	Dr. Salim Sharieff Dr. Nadeem Pasha K	2023	Scientific International Publishing House	<a href="https://www.flipkart.com/renewable-energy-resources/p/itmdbe247b774e38">https://www.flipkart.com/renewable-energy-resources/p/itmdbe247b774e38</a>
16.	Fueling the Future: Bio diesel	Dr. Younus Pasha	2023	Ekaksh Publications	<a href="https://www.amazon.in/-/hi/Dr-H-Harish/dp/8195619207">https://www.amazon.in/-/hi/Dr-H-Harish/dp/8195619207</a>



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## RESEARCH PAPERS PUBLISHED BY FACULTY IN JOURNALS & CONFERENCES

Sl. No.	Name of the Teacher (s)	Department	Title of Paper	Publication citation	National or International Journal	Remarks
1	2	3	4	5	6	7
1.	Dr. Tabassum Ara	AIML	“Smart Deep Learning Model to Recognize PCM Optimization Performance on Solar Cooling System	<a href="https://doi.org/10.1080/15325008.2023.2281630">https://doi.org/10.1080/15325008.2023.2281630</a>	International	<a href="https://www.tandfonline.com/journals/uemp20">https://www.tandfonline.com/journals/uemp20</a>
2.	Dr. Tabassum Ara	AIML	An Intelligent Healthcare System for Quadriplegia Patients using Internet of Things and Machine Learning	<a href="https://ejournal.net/index.php/INJ/article/view/138/106">https://ejournal.net/index.php/INJ/article/view/138/106</a>	International	<a href="https://ejournal.net/">https://ejournal.net/</a>
3.	Dr. Tabassum Ara	AIML	Peli-Remo Optimization Algorithm for Reliable routing in MANET: K-means node clustering process and CNN based Energy Prediction	<a href="https://www.propulsiontechjournal.com/index.php/journal/article/view/1471">https://www.propulsiontechjournal.com/index.php/journal/article/view/1471</a>	International	<a href="https://www.propulsiontechjournal.com/index.php/journal">https://www.propulsiontechjournal.com/index.php/journal</a>
4.	Dr. Tabassum Ara	AIML	An energy efficient selection of cluster head and disease prediction in IoT based Smart agriculture using a hybrid artificial neural network model	<a href="https://doi.org/10.1016/j.measen.2024.101074">https://doi.org/10.1016/j.measen.2024.101074</a>	International	<a href="https://doi.org/10.1016/j.measen.2024.101074">https://doi.org/10.1016/j.measen.2024.101074</a>
5.	Prof. Shabeena Lylath	AIML	Efficient Approach for Autism Detection using deep learning techniques: A Survey	<a href="https://ieeexplore.ieee.org/document/9971974">https://ieeexplore.ieee.org/document/9971974</a>	International	2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT) Bangalore, India. Oct 7-9, 2022
6.	Prof. Shabeena Lylath	AIML	Autism spectrum disorder identification with multi-site functional magnetic resonance imaging	<a href="http://ijai.iaescore.com">http://ijai.iaescore.com</a>	International	IAES International Journal of Artificial Intelligence (IJ-AI)
7.	Prof. AFROZ PASHA	AIML	“A Fiber-Wireless Monitoring System with a QoE Instrument for Smart Grid	<a href="https://ieeexplore.ieee.org/document/10085662">https://ieeexplore.ieee.org/document/10085662</a>	International	2023 Second International Conference on Electronics and



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			Technology”			Renewable Systems (ICEARS)
8.	Prof. AFROZ PASHA	AIML	“Efficient Digital Cluster Scheme to Improve the Lifetime Ratio of Wireless Sensor Networks”	<a href="https://ieeexplore.ieee.org/document/10199240">https://ieeexplore.ieee.org/document/10199240</a>	International	2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)
9.	Prof. Krishnranjani Raju	AIML	GPS Controlled Robotic Vehicle for Environmental Impact Analysis	<a href="https://www.ijirset.com/upload/2020/march/56_CS420_MCS.PDF">https://www.ijirset.com/upload/2020/march/56_CS420_MCS.PDF</a>	International	International Journal of Innovative Research in Science, Engineering and Technology
10.	Prof. Krishnranjani Raju	AIML	Modeling Cognitive System with Applied Machine learning in Additive Manufacturing using Fifth Generation Computer Systems	<a href="https://iopscience.iop.org/article/10.1088/1742-6596/2115/1/012033">https://iopscience.iop.org/article/10.1088/1742-6596/2115/1/012033</a>	International	IOP: Journal of Physics
11.	Dr. Sanaulla P F	Chemistry	Lanthanum substituted Ni-Zn ferrite (Ni <sub>0.75</sub> Zn <sub>0.25</sub> Fe <sub>2</sub> O <sub>4</sub> ) nanomaterial and its composite with rGO for degradation of binary dyes under visible light irradiation	10.1088/2053-1591/acd50e	International	10.1088/2053-1591/acd50e
12.	Dr. Sanaulla P F	Chemistry	Effect of Musa acuminata peel extract on synthesis of ZnO/CuO nanocomposites for photocatalytic degradation of methylene blue	<a href="https://doi.org/10.1080/17518253.2023.2232383">https://doi.org/10.1080/17518253.2023.2232383</a>	International	<a href="https://doi.org/10.1080/17518253.2023.2232383">https://doi.org/10.1080/17518253.2023.2232383</a>
13.	Dr. Sanaulla P F	Chemistry	Ni <sub>1</sub> Zn <sub>1-x</sub> La <sub>y</sub> Fe <sub>2-y</sub> O <sub>4</sub> @rGO nanocomposite as electrochemical sensor for simultaneous analysis of food colorants-sunset yellow and tartrazine	<a href="https://doi.org/10.1016/j.inoche.2023.111071">https://doi.org/10.1016/j.inoche.2023.111071</a>	International	<a href="https://doi.org/10.1016/j.inoche.2023.111071">https://doi.org/10.1016/j.inoche.2023.111071</a>
14.	Dr. Sanaulla P F	Chemistry	Nano Based Soil Amendments for Heavy Metal Retention in Brown Fields	<a href="https://doi.org/10.18311/jmmf/2023/35257">https://doi.org/10.18311/jmmf/2023/35257</a>	International	<a href="https://doi.org/10.18311/jmmf/2023/35257">https://doi.org/10.18311/jmmf/2023/35257</a>
15.	Dr. Sanaulla P F	Chemistry	Green synthesis of CuO nanoparticles: A promising material for photocatalysis and electrochemical sensor	<a href="https://doi.org/10.1016/j.sintl.2023.100254">https://doi.org/10.1016/j.sintl.2023.100254</a>	International	<a href="https://doi.org/10.1016/j.sintl.2023.100254">https://doi.org/10.1016/j.sintl.2023.100254</a>
16.	Jayasimha H N	Chemistry	Green synthesis of CuO nanoparticles: A promising material for photocatalysis and electrochemical sensor	<a href="https://doi.org/10.1016/j.sintl.2023.100254">https://doi.org/10.1016/j.sintl.2023.100254</a>	International	<a href="https://doi.org/10.1016/j.sintl.2023.100254">https://doi.org/10.1016/j.sintl.2023.100254</a>
17.	Dileepkumar V G	Chemistry	Porous potassium tantalate-reduced	<a href="https://doi.org/10.1016/j.prime.2023.">https://doi.org/10.1016/j.prime.2023.</a>	International	<a href="https://doi.org/10.1016/j.prime.2023.">https://doi.org/10.1016/j.prime.2023.</a>



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			graphene oxide nano cube architecture for high performance hybrid supercapacitors	100182		023.100182
18.	Dileepkumar V G	Chemistry	La10Si6O27:Eu3+ Nanophosphor: Its Photocatalytic and Sensor Applications	<a href="https://doi.org/10.14233/ajchem.2023.28056">https://doi.org/10.14233/ajchem.2023.28056</a>	International	<a href="https://doi.org/10.14233/ajchem.2023.28056">https://doi.org/10.14233/ajchem.2023.28056</a>
19.	Dileepkumar V G	Chemistry	Natural sub-bituminous coal as filler enhances mechanical, insulation and flame retardant properties of coir-polypropylene bio-composites	<a href="https://doi.org/10.1007/s10653-023-01489-9">https://doi.org/10.1007/s10653-023-01489-9</a>	International	<a href="https://doi.org/10.1007/s10653-023-01489-9">https://doi.org/10.1007/s10653-023-01489-9</a>
20.	Dileepkumar V G	Chemistry	Study of Bi-functional Applications of ZnO Nanoparticles Synthesized via Sonochemical Route	<a href="https://doi.org/10.14233/ajchem.2023.28278">https://doi.org/10.14233/ajchem.2023.28278</a>	International	<a href="https://doi.org/10.14233/ajchem.2023.28278">https://doi.org/10.14233/ajchem.2023.28278</a>
21.	Dileepkumar V G	Chemistry	Green synthesis of CuO nanoparticles: A promising material for photocatalysis and electrochemical sensor	<a href="https://doi.org/10.1016/j.sintl.2023.100254">https://doi.org/10.1016/j.sintl.2023.100254</a>	International	<a href="https://doi.org/10.1016/j.sintl.2023.100254">https://doi.org/10.1016/j.sintl.2023.100254</a>
22.	Dileepkumar V G	Chemistry	Highly efficient and stable NiSe2-rGO composite-based room temperature hydrogen gas sensor	<a href="https://doi.org/10.1016/j.ijhydene.2023.10.018">https://doi.org/10.1016/j.ijhydene.2023.10.018</a>	International	<a href="https://doi.org/10.1016/j.ijhydene.2023.10.018">https://doi.org/10.1016/j.ijhydene.2023.10.018</a>
23.	Dr. Syed Abu Sayeed Mohammed	Civil	Comparative Studies on the Strength and Swell Characteristics of Cohesive Soils Using Lime and Modified Enzyme-Induced Calcite Precipitation Technique	Almajed A, Moghal AAB, Nuruddin M, Mohammed SAS (2024) Comparative Studies on the Strength and Swell Characteristics of Cohesive Soils Using Lime and Modified Enzyme-Induced Calcite Precipitation Technique. Buildings 14:909. <a href="https://doi.org/10.3390/buildings14040909">https://doi.org/10.3390/buildings14040909</a>	<b>MDPI</b>	<a href="https://doi.org/10.3390/buildings14040909">https://doi.org/10.3390/buildings14040909</a>
24.	Pushpa Mohan	CSE	Multimodal Sentimental Classification using Long-Short Term Memory	2023 International Conference on Integrated Intelligence and Communication Systems (ICIICS), November, 2023	International	<a href="https://ieeexplore.ieee.org/document/10421563">https://ieeexplore.ieee.org/document/10421563</a>
25.	Pushpa Mohan	CSE	Advances in Natural Language Processing and Deep learning for Document Summarization	2023 International Conference on Integrated Intelligence and Communication Systems (ICIICS),	International	<a href="https://ieeexplore.ieee.org/document/10421343">https://ieeexplore.ieee.org/document/10421343</a>



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				November,2023		
26.	K A Sharada	CSE	Improved Energy Efficiency Using adaptive ant colony distributed intelligent based clustering in wireless sensor networks	Scientific Reports, 14,1,February 2024	International	<a href="https://www.nature.com/articles/s41598-024-55099-1">https://www.nature.com/articles/s41598-024-55099-1</a>
27.	Sharadha K A	CSE	Face Recognition of Live Feed Imagery using Viola-Jones Algorithm.	2023 1st International Conference on Circuits, Power and Intelligent Systems (CCPIS),September 2023	International	<a href="https://ieeexplore.ieee.org/document/10291969">https://ieeexplore.ieee.org/document/10291969</a>
28.	Husna Tabassum	CSE	Smart Modular few shot learning framework classification of signal modulation	2023 International Conference on Data Science and Network Security (ICDSNS),July ,2023	International	<a href="https://doi.org/10.1109/ICDSNS58469.2023.10244987">https://doi.org/10.1109/ICDSNS58469.2023.10244987</a>
29.	Najmusher H	CSE	Nature Inspired Data Placement Strategy in Distributed Cloud Environment using Improved Firefly Algorithm	International Journal of Electronics and Communication Engineering,10,8,September 2023	International	<a href="https://doi.org/10.14445/23488549/IJECE-V10I8P106">https://doi.org/10.14445/23488549/IJECE-V10I8P106</a>
30.	Smitha Kurian	CSE	Multimodal Biometrics Classification Using Long Short Term Memory with Sigmoid Functions	3rd International Conference on Mobile Networks and Wireless Communications (ICMNBC),2024 DOI: 10.1109/ICMNBC60182.2023.10435921	International	<a href="https://ieeexplore.ieee.org/document/10435921">https://ieeexplore.ieee.org/document/10435921</a>
31.	Smitha Kurian	CSE	An automated learning model for twitter sentiment analysis using Ranger AdaBelief optimizer based Bidirectional Long Short Term Memory	Expert Systems, <a href="https://doi.org/10.1111/exsy.13610">https://doi.org/10.1111/exsy.13610</a>	International	<a href="https://doi.org/10.1111/exsy.13610">https://doi.org/10.1111/exsy.13610</a>
32.	Dr. Suraiya Tarannum	ECE	An Effective double density dual tree complex wavelet transforms based denoising for MIMO-OFDM	<a href="https://openurl.ebsco.com/EPDB%3Aagcd%3A15%3A5132559/detailv2?sid=ebsco%3Aplink%3Ascholar&amp;id=ebsco%3Aagcd%3A173261949&amp;cr=c">https://openurl.ebsco.com/EPDB%3Aagcd%3A15%3A5132559/detailv2?sid=ebsco%3Aplink%3Ascholar&amp;id=ebsco%3Aagcd%3A173261949&amp;cr=c</a>	International	International Journal of Intelligent Engineering & Systems, 16(6), 731
33.	Dr. C. Venkatesan	ECE	Hybrid Machine Learning Technique to Detect Active Botnet Attacks for Network Security and Privacy	<a href="https://anapub.co.ke/journals/jmc/jmc_abstract/2023/jmc_volume_03_issu_e_04/jmc_volume3_issue4_14.html">https://anapub.co.ke/journals/jmc/jmc_abstract/2023/jmc_volume_03_issu_e_04/jmc_volume3_issue4_14.html</a>	International	Journal of Machine and Computing, vol.3, issue 4, pp.523-533
34.	Dr. Abdul Azeez	ECE	Multi-objective May Fly optimization in	<a href="https://journals.iium.edu.my/ejournal">https://journals.iium.edu.my/ejournal</a>	International	IIUM Engineering Journal 24,



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			phase optimization of OFDM	<a href="/index.php/iiumej/article/view/2625">/index.php/iiumej/article/view/2625</a>		no. 1 (2023): 106-121
35.	Dr. Abdul Azeez	ECE	Enhanced artificial bee colony, square root raised cosine precoding, and mu-law compander for optimization of MIMO-OFDM Systems	<a href="https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/17665">https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/17665</a>	International	International Journal on Advanced Science, Engineering and Information Technology, vol. 13, no. 3, June 2023, pp. 911-8
36.	Dr. Maaz Ahmed	ECE	Hierarchical-Variational Mode Decomposition for Baseline Correction in Electroencephalogram Signals	<a href="https://ieeexplore.ieee.org/abstract/document/10317886">https://ieeexplore.ieee.org/abstract/document/10317886</a>	International	IEEE Open Journal of Instrumentation and Measurement, 2, pp. 1-8.
37.	Dr. B.P. Pradeep Kumar	ECE	Enhancing Medical Image Reclamation for Chest Samples Using B-Coefficients, DT-CWT and EPS Algorithm	<a href="https://ieeexplore.ieee.org/document/10272578">https://ieeexplore.ieee.org/document/10272578</a>	International	IEEE Access. vol. 11, pp. 113360-113375, 2023
38.	Dr. B.P. Pradeep Kumar	ECE	Implementation of an Efficient and Reconfigurable Architecture for DCT on FPGA	<a href="https://ijisae.org/index.php/IJISAE/article/view/4412">https://ijisae.org/index.php/IJISAE/article/view/4412</a>	International	International Journal of Intelligent Systems and Applications in Engineering, 12(10s), 597-604.
39.	Dr. B.P. Pradeep Kumar	ECE	Design of Chest Visual Based Image Reclamation Method Using Dual Tree Complex Wavelet Transform and Edge Preservation Smoothing Algorithm	<a href="https://link.springer.com/article/10.1007/s42979-024-02742-3">https://link.springer.com/article/10.1007/s42979-024-02742-3</a>	International	SN Computer Science, 5(4), 1-19.
40.	Dr. B.P. Pradeep Kumar	ECE	Autonomous Garbage Accumulation Robot using Internet of Things	<a href="https://anapub.co.ke/journals/jmc/jmc_abstract/2024/jmc_volume_04_issue_02/jmc_volume4_issue2_16.html">https://anapub.co.ke/journals/jmc/jmc_abstract/2024/jmc_volume_04_issue_02/jmc_volume4_issue2_16.html</a>	International	Journal of Machine and Computing, 4(2), 2024, 431-440
41.	Dr. Syed Mustafa	ISE	Multi-level graded facial emotion intensity recognition using MCANN for health care	Intelligent Decision Technologies, vol. 17, no. 2, pp. 331-341, 2023	International	<a href="https://content.iospress.com/articles/intelligent-decision-technologies/idt220301">https://content.iospress.com/articles/intelligent-decision-technologies/idt220301</a>
42.	Dr.Komala C R	ISE	VANET Backbone in Data Networking and Block-Chain	Journal Of Pharmaceutical Negative Results, Vol. 14 No. 3, 2023	International	<a href="https://openurl.ebsco.com/EPDB%3Aged%3A11%3A21934203/detailv2?sid=ebsco%3Aplink%3Ascholar&amp;id=ebsco%3Aged%3A163513703&amp;crl=f">https://openurl.ebsco.com/EPDB%3Aged%3A11%3A21934203/detailv2?sid=ebsco%3Aplink%3Ascholar&amp;id=ebsco%3Aged%3A163513703&amp;crl=f</a>
43.	Dr.Komala C R	ISE	Autonomous Vehicle Traffic Recognition	Journal Of Pharmaceutical Negative	International	<a href="https://www.pnrjournal.com/ind">https://www.pnrjournal.com/ind</a>



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			Based on Artificial Intelligence	Results, Vol. 14 No. 2, 2023		<a href="http://ex.php/home/article/view/8331">ex.php/home/article/view/8331</a>
44.	Dr.Komala C R	<b>ISE</b>	Machine Learning-Integrated IoT-Based Smart Home Energy Management System	IGI Global 2023, DOI: 10.4018/978-1-6684-8098-4.ch005	International	<a href="https://www.igi-global.com/chapter/machine-learning-integrated-iot-based-smart-home-energy-management-system/325944">https://www.igi-global.com/chapter/machine-learning-integrated-iot-based-smart-home-energy-management-system/325944</a>
45.	Dr.Komala C R	<b>ISE</b>	Multi-UAV computing enabling efficient clustering-based IoT for energy reduction and data transmission	Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology, Volume 45 Issue 1, 2023 pp 1717–1730	International	<a href="https://doi.org/10.3233/JIFS-231242">https://doi.org/10.3233/JIFS-231242</a>
46.	Dr.Komala C R	<b>ISE</b>	A Review of Power Management Approaches for Mobile Ad Hoc Networks	Journal Européen des Systèmes Automatisés, Vol. 57, No. 1, pp. 137-145. <a href="https://doi.org/10.18280/jesa.570114">https://doi.org/10.18280/jesa.570114</a>	International	<a href="https://openurl.ebsco.com/EPDB%3Agcd%3A1%3A22913937/detailv2?sid=ebsco%3Aplink%3Ascholar&amp;id=ebsco%3Agcd%3A176210254&amp;crl=c">https://openurl.ebsco.com/EPDB%3Agcd%3A1%3A22913937/detailv2?sid=ebsco%3Aplink%3Ascholar&amp;id=ebsco%3Agcd%3A176210254&amp;crl=c</a>
47.	Dr.Komala C R	<b>ISE</b>	Novel Congestion Control Mechanism to Improve Performance of Mobile Ad hoc Network with Queue Model	Journal of Theoretical and Applied Information Technology, Vol.102, No.4, Feb 2024	International	<a href="https://www.jatit.org/volumes/Vol102No4/16Vol102No4.pdf">https://www.jatit.org/volumes/Vol102No4/16Vol102No4.pdf</a>
48.	Dr. Younus Pasha & Dr. Salim Sharieff	Mechanical Engg.	Design & development of IoT based multi degree fire extinguisher	chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/ <a href="https://hkbk.edu.in/backend/backend/AR-22-23.pdf">https://hkbk.edu.in/backend/backend/AR-22-23.pdf</a>	International	chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/ <a href="https://hkbk.edu.in/backend/backend/AR-22-23.pdf">https://hkbk.edu.in/backend/backend/AR-22-23.pdf</a>
49.	Dr. Nadeem Pasha K, Dr. Salim Sharieff	Mechanical Engg.	Piezoelectric Power generation in E Scooter	<a href="https://www.jetir.org/view?paper=JETIR2305825">https://www.jetir.org/view?paper=JETIR2305825</a>	International	<a href="https://www.jetir.org/view?paper=JETIR2305825">https://www.jetir.org/view?paper=JETIR2305825</a>
50.	Ramachandra Kulkarni	Mechanical Engg.	OXYGEN CONCENTRATION GENERATOR USING PSA	<a href="https://www.jetir.org/view?paper=JETIR2304C30">https://www.jetir.org/view?paper=JETIR2304C30</a>	International	<a href="https://www.jetir.org/view?paper=JETIR2304C30">https://www.jetir.org/view?paper=JETIR2304C30</a>



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51.	Dr. Nadeem Pasha. K	Mechanical Engg.	INTEGRATION OF PIEZOELECTRIC POWER IN E SCOOTER	<a href="https://jetir.org/view?paper=JETIR2305869">https://jetir.org/view?paper=JETIR2305869</a>	International	<a href="https://jetir.org/view?paper=JETIR2305869">https://jetir.org/view?paper=JETIR2305869</a>
52.	Dr. Salim Sharieff	Mechanical Engg.	Fabrication of Light Weight Cost Effective E-Scooter	<a href="https://www.jetir.org/view?paper=JETIR2305615">https://www.jetir.org/view?paper=JETIR2305615</a>	International	<a href="https://www.jetir.org/view?paper=JETIR2305615">https://www.jetir.org/view?paper=JETIR2305615</a>
53.	Nehal Ahmad, Dr. Salim Sharieff,	Mechanical Engg.	SELF REGENERATING ELECTRIC GREEN BIKE	<a href="chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/https://www.jetir.org/papers/JETIR2305B57.pdf">chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/https://www.jetir.org/papers/JETIR2305B57.pdf</a>	International	<a href="chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/https://www.jetir.org/papers/JETIR2305B57.pdf">chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/https://www.jetir.org/papers/JETIR2305B57.pdf</a>
54.	Mohammed Yaseer Pasha, Salim Sharieff,	Mechanical Engg.	DESIGN, FABRICATION AND ANALYSIS OF RIVER DEBRIS CLEANER MACHINE	<a href="https://scholar.google.co.in/scholar?q=DESIGN,+FABRICATION+AND+ANALYSIS+OF%0D%0ARIVER+DEBRIS+CLEANER+MACHINE+Mohammed+Yaseer+Pasha,+Salim+Sharieff,&amp;hl=en&amp;as_sdt=0&amp;as_vis=1&amp;oi=scholart">https://scholar.google.co.in/scholar?q=DESIGN,+FABRICATION+AND+ANALYSIS+OF%0D%0ARIVER+DEBRIS+CLEANER+MACHINE+Mohammed+Yaseer+Pasha,+Salim+Sharieff,&amp;hl=en&amp;as_sdt=0&amp;as_vis=1&amp;oi=scholart</a>	International	<a href="https://scholar.google.co.in/scholar?q=DESIGN,+FABRICATION+AND+ANALYSIS+OF%0D%0ARIVER+DEBRIS+CLEANER+MACHINE+Mohammed+Yaseer+Pasha,+Salim+Sharieff,&amp;hl=en&amp;as_sdt=0&amp;as_vis=1&amp;oi=scholart">https://scholar.google.co.in/scholar?q=DESIGN,+FABRICATION+AND+ANALYSIS+OF%0D%0ARIVER+DEBRIS+CLEANER+MACHINE+Mohammed+Yaseer+Pasha,+Salim+Sharieff,&amp;hl=en&amp;as_sdt=0&amp;as_vis=1&amp;oi=scholart</a>
55.	Prof. Abdul Mujeeb N, Dr. Salim Sharieff,	Mechanical Engg.	DESIGN AND DEVELOPMENT OF SEMI AUTOMATIC COCONUT DECORTICATING MACHINE	<a href="chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/https://www.jetir.org/papers/JETIR2306049.pdf">chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/https://www.jetir.org/papers/JETIR2306049.pdf</a>	International	<a href="chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/https://www.jetir.org/papers/JETIR2306049.pdf">chrome-extension://efaidnbmnnnibpajpcglclefindmkaj/https://www.jetir.org/papers/JETIR2306049.pdf</a>





## HKBK COLLEGE OF ENGINEERING

### SYMPOSIA, SEMINARS, WORKSHOPS ETC. CONDUCTED IN THE COLLEGE

Sl. No.	Name of the Conference etc. organised	Date & Month	Source of Financial Support	Sponsored	No. of Participants	Remarks
1	2	3	4	5	6	7
1.	Career Guidance Session	9 <sup>th</sup> February, 2024	HKBKCE	Mr. Ramesh Vudaga Principal Architech AWS	70	
2.	“IOT & It’s Applications	11 <sup>th</sup> – 15 <sup>th</sup> December,2023	HKBKCE	Karunadu Technologies	8	
3.	Intellectual Property Rights	13 <sup>th</sup> December, 2023	HKBKCE	Mr. Jalwath, IPR Consultant	75	
4.	Microsoft Learn, Spark Possibility	8 <sup>th</sup> February, 2024	HKBKCE	Online	80	
5.	Data Analytics With R Programming	26 <sup>th</sup> – 30 <sup>th</sup> December, 2023	HKBKCE	Prof. Krishnaranjani	70	
6.	3D Printing Technology	12 <sup>th</sup> December, 2023	HKBKCE	Infinite Technologies & Fracktal Works on 12 <sup>th</sup> December, 2023.	75	
7.	Workshop and Inter-College Hackathon	16-18 <sup>th</sup> October 2023	HKBKCE	Registration+ ISTE fund	52	
8.	TECHSIUM 2024	9 <sup>th</sup> February 2024	HKBKCE	ISTE Fund	200	
9.	VAC on Core Java Programming	2 <sup>nd</sup> to 6 <sup>th</sup> Jan 2024	HKBKCE	ISTE Registration+ Department Fund	150	
10.	VAC on Cyber Security and Cyber Forensics	26 <sup>th</sup> to 30 <sup>th</sup> March 2024	HKBKCE	ISTE Registration+ Department Fund	150	
11.	VAC on Python	16 <sup>th</sup> -20 <sup>th</sup> April 2024	HKBKCE	ISTE Registration+	154	



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	Programming and GUI			Department Fund		
12.	Aptitude Training	26/04/23 to 6/05/23	HKBKCE	Bizotic (SST and Aptitude)	72	Conducted for 7 <sup>th</sup> semester ECE students
13.	Placement Talk	16/05/2023	HKBKCE	-	70	Conducted for 7 <sup>th</sup> semester ECE students
14.	Expert talk on “Research Insights and Publication strategies & Ethics”	06/06/2023	HKBKCE	Rs.8000	102	Conducted for HKBKCE faculties across all departments
15.	Expert Lecture on Digital Signal Processing	04/08/2023	HKBKCE	Rs.3000/-	56	Conducted for 4 <sup>th</sup> semester ECE students
16.	Expert Lecture on Introduction to IOT	07/08/2023	HKBKCE	Rs.54,500/-	109	Conducted for 2 <sup>nd</sup> semester ECE students
17.	Pre-Placement Training	12/09/2023 to 22/09/2023	HKBKCE	--	51	Conducted for 5 <sup>th</sup> semester ECE students
18.	AMD Pervasive AI Developer Contest	01/02/2024	Shooting Star Foundation, USA	Rs.26,500/-	254	Conducted for 3 <sup>rd</sup> and 5 <sup>th</sup> semester ECE Students
19.	5 Day Value added program on “The Realm of IoT Applications and Beyond”	07/02/2024 to 12/02/2024	HKBKCE	Rs.49,200/-	82	Conducted in association with RoboRam Education Solutions for 5 <sup>th</sup> semester students
20.	Workshop on “Exploring Opportunities to study	12/02/2024	HKBKCE	Go Study	105	Conducted for 5 <sup>th</sup> semester ECE students



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	Abroad”					
21.	Health & Dietetics	15/03/2024	HKBKCE	Rs.2500/-	188	Conducted for 1 <sup>st</sup> year ECE students
22.	Yoga Session	15/03/2024	HKBKCE	Rs.2500/-	188	Conducted for 1 <sup>st</sup> semester ECE students
23.	Career Guidance	16/03/2024	HKBKCE	Rs.2500/-	188	Conducted for 1 <sup>st</sup> semester ECE students
24.	Skill Development for Lecturers across Universities of Karnataka	19/03/2024-26/03/2024	Karnataka Skill Development Corporation and Karnataka Bank	---	117	Conducted for faculties in association with Karnataka Skill Development Corporation and Karnataka Bank
25.	TECHSIUM	9 <sup>th</sup> ,10 <sup>th</sup> -Jan-2024	HKBKCE	Nil	300	Only for Students
26.	Universal Human Values	11 <sup>th</sup> to 15 <sup>th</sup> Sept-2023	HKBKCE	Nil	433	Only for Faculties
27.	Brain-O-Vision	16 <sup>th</sup> to 18 <sup>th</sup> Oct-2023	HKBKCE	Nil	150	Only for Students
28.	Universal Human Values	3 <sup>rd</sup> to 7 <sup>th</sup> Oct-2023	HKBKCE	Nil	591	Only for Students



## HKBK COLLEGE OF ENGINEERING

### CONFERENCE, SYMPOSIA, SEMINARS, WORKSHOPS ETC. ATTENDED BY TEACHERS

Sl. No.	Name of the Teacher	Name of the Conference etc.	Place	Date	Invited/Deputed	No. of papers presented	Remarks
1	2	3	4	5	6	7	8
1.	Prof. Afroz Pasha	"Mastering Modern Deep Learning and Data Science"	Online	26th February 2024 to 2nd March 2024	Deputed	1	Department of Information Technology, PCCOE, Nigdi, Pune
2.	Prof. Afroz Pasha	"Artificial Intelligence and Generative Models"	Online	15th Jan 2024 to 19th Jan 2024	Deputed	1	Pune
3.	Prof. Afroz Pasha	"Introduction To Cyber Security"	online	From 05th to 9th June 2023	Deputed	1	AICTE-VTU Joint Teachers Training Programme On
4.	Prof. Afroz Pasha	Introduction to Python Programming & Its Applications"	online	From 22th to 26th June 2023	Deputed	1	ICTE-VTU Joint Teachers Training Programme On
5.	Prof. Afroz Pasha	Fundamentals of Data Science & Analytics	VIAT Muddenahalli	17th to 21th April 2023	Deputed	1	AICTE-VTU Joint Teachers Training Programme On
6.	Prof. Afroz Pasha	"Introduction to Internet of Things (IoT)	online	From 6th to 12th July 2023.	Deputed	1	AICTE-VTU Joint Teachers Training Programme On
7.	Prof. Afroz Pasha	"Machine Learning" Faculty Development Program	online	27th Mar to 2th April 2023	Deputed	1	organized by E& ICT Academy, IIT Kanpur India
8.	Prof. Afroz Pasha	Empowering Tomorrow's Mobility: AI-Driven Innovations for Electric Vehicles	CMRIT Bangalore	from 04/12/2023 to 09/12/2023	Deputed	1	AICTE Training And Learning (ATAL)



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		at					Academy Faculty Development Program
9.	Prof. Afroz Pasha	Introduction to Python Prog. & Its Application	VIAT Muddenahalli	19th – 23rd June, 2023	Deputed	1	VIAT Muddenahalli
10.	Prof. Krishnarajani	Innovation Ambassador(IA)	Online	13th November, 2023	Deputed	1	Ministry of Education & AICTE
11.	Prof. Krishnarajani	Innovation Ambassador(IA) Training Advanced Level	Online	18th November, 2023	Deputed	1	BY MOE innovation Cell & AICTE
12.	Prof. Krishnarajani	Introduction to Internet of Things (IoT)” from 17th to 21st April 2023	Online	From 6th to 12th July 2023.	Deputed	1	AICTE–VTU Joint Teachers Training Programme
13.	Prof. Krishnarajani	"Artificial Intelligence and Generative Models"	Online	15th Jan 2024 to 19th Jan 2024.	Deputed	1	Faculty Development Program
14.	Prof. Krishnarajani	Mastering Modern Deep Learning And Data Science	Online	26th February 2024 to 2nd March 2024.	Deputed	1	One Week Faculty Development Program on
15.	Prof. Krishnarajani	Generative AI & Industrial IoT	Intel SRR Campus in Bengaluru	3rd and 4th November, 2023	Deputed	1	Faculty Development Program focused
16.	Prof. Krishnarajani	Deep Learning Institute	Bangalore Campus	Nov 29 & 30, Dec 1, 2023	Deputed	1	NVIDIA FDP
17.	Prof. Shabeena Lylath	"Artificial Intelligence and Generative Models"	Online	15th Jan 2024 to 19th Jan 2024	Deputed	1	Department of Information Technology, VIT, Pune
18.	Prof. Shabeena Lylath	"Empowering educator: Advancement in computing pedagogy"	online	12th Feb to 17th Feb 2024	Deputed	1	Department of Information Technology, PCCOE, Nigdi, Pune
19.	Prof. Shabeena Lylath	Mastering Modern Deep Learning and Data Science	Online	26th February 2024 to 2nd March 2024.	Deputed	1	One Week Faculty Development Program on
20.	Prof. Shruthi V K	"Artificial Intelligence and Generative	online	15TH JAN 2024 TO	Deputed	1	Department of



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		Models"		19TH JAN 2024			Information Technology, VIT, Pune
21.	Prof. Vani Valsaraj	"Artificial Intelligence and Generative Models"	online	15TH JAN 2024 TO 19TH JAN 2024	Deputed	1	Department of Information Technology, VIT, Pune
22.	Prof.Vani Valsaraj	"Empowering educator: Advancement in computing pedagogy"	online	12th Feb to 17th Feb 2024	Deputed	1	Department of Information Technology, PCCOE, Nigdi, Pune
23.	Prof. N.R.Gowri	Sustainable Construction Materials, Practices and Technologies	Online 5 day FDP	18 <sup>th</sup> March to 22 <sup>nd</sup> March 2024	Deputed	1	Department of Civil Engineering, SMVIT, Bengaluru.
24.	Prof. Mohammed Yunus G S	Sustainable Construction Materials, Practices and Technologies	Online 5 day FDP	18 <sup>th</sup> March to 22 <sup>nd</sup> March 2024	Deputed	1	Department of Civil Engineering, SMVIT, Bengaluru.
25.	Prof. Rashmi C	Sustainable Construction Materials, Practices and Technologies	Online 5 day FDP	18 <sup>th</sup> March to 22 <sup>nd</sup> March 2024	Deputed	1	Department of Civil Engineering, SMVIT, Bengaluru.
26.	Prof. Lavanya N	Sustainable Construction Materials, Practices and Technologies	Online 5 day FDP	18 <sup>th</sup> March to 22 <sup>nd</sup> March 2024	Deputed	1	Department of Civil Engineering, SMVIT, Bengaluru.
27.	Prof. Husna Tabassum	2023 International Conference on Data Science and Network Security (ICDSNS),July ,2023	Bangalore	July 2023	Deputed	1	Bengaluru
28.	Dr. Sharadha K A	2023 1st International Conference on Circuits, Power and Intelligent Systems (CCPIS),September 2023	Bangalore	Sep 2023	Deputed	1	Bengaluru
29.	Prof. Najmusher	International Journal of Electronics and Communication Engineering,10,8,September 2023	Bangalore	Sep 2023	Deputed	1	Bengaluru
30.	Dr. Pushpa Mohan	2023 International Conference on	Bangalore	Nov 2023	Deputed	2	Bengaluru



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		Integrated Intelligence and Communication Systems (ICIICS), November, 2023					
31.	Dr. Smitha K	3rd International Conference on Mobile Networks and Wireless Communications (ICMNWC), Feb 2024	Bangalore	Feb 2024	Deputed	1	Bengaluru
32.	Dr.Latha R,	2023 Second International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT 2023)	Tiruchirappalli, India	05-07 April, 2023	Invited	1	Hybrid Threshold Speech Enhancement Scheme Using TEO And Wavelet Coefficients, pp. 01-05, doi: 10.1109/ICEEICT56924.2023.10156921.
33.	Dr.B.P.Pradeep Kumar	2023 Second International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT 2023)	Tiruchirappalli, India	05-07 April, 2023	Invited	1	Speech-to-text Transfiguration in Language Numerals for Perpetual Deaf Patients, pp. 01-05, doi: 10.1109/ICEEICT56924.2023.10156921.
34.	Dr.Maaz Ahmed	Proceedings of Congress on Control, Robotics and Mechatronics, Smart Innovation, Systems and Technologies	Kota, India	March 25-26, 2023	Invited	1	Healthcare System Based on Body Sensor Network for Patient Emergency Response with Monitoring and Motion Detection, Smart Innovation, Systems and Technologies, vol 364. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-99-5180-">https://doi.org/10.1007/978-981-99-5180-</a>



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							2_53
35.	Dr.Maaz Ahmed	2023 International conference on Research methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering	Chennai, India	Nov 1-2 , 2023	Invited	1	Assistive Device for Differently Abled People, 2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE), Chennai, India, 2023, pp. 1-4, doi: 10.1109/RMKMATE59243.2023.10369934.
36.	Dr. Komala C R	International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)	Chennai	25-26 May 2023	Invited	1	Chennai
37.	Dr. Komala C R,	International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS)	Bangalore	19-21 April 2023	Invited	1	Bangalore
38.	Dr. A. Syed Mustafa	International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS)	Bangalore	19-21 April 2023	Invited	1	Bangalore
39.	Dr. Komala C R	International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)	Chennai	14-15 December 2023	Invited	1	Chennai





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### INVITED SPECIAL LECTURES DELIVERED IN THE COLLEGE BY THE SCHOLARS

Sl. No.	Name of the Invited Scholar with full Address	Title of the Lecture delivered	Area of Specialization	Date of the Lecture
Nil				



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### LIST OF MAJOR & MINOR RESEARCH PROJECTS / RESEARCH WORK / AIDED RESEARCH PROJECTS UNDER NATIONAL / STATE / PRIVATE FUNDING AGENCIES (INCLUDING STATE GOVT.) DURING THE YEAR 2023-2024

Sl. No.	Name of the Teacher / Principal Investigator	Project Title	Year of Sanction	Funding Agency	Total Amount Sanctioned	Amount utilized during current year	Remarks
1	2	3	4	5	6	7	8
1	Dr. Tabassum Ara	GPU based personal emergency response system for intellectually disabled	2023-24	NVIDIA	Rs 25000	Rs 25000	-
2	Dr. Tabassum Ara	NVIDIA embedded AI Lab in our the institution	2023-24	NVIDIA	Rs 119703	Rs 119703	-
3	Prof. N.R.Gowri Dr. Syed Abu Sayeed Mohammed	Study On The Biofiltration Technique For Greywater Treatment	2023-24	KSCST, BENGALURU	Rs 4,000/-	Rs 4,000/-	-
4	Dr. Sanjana Prasad	Automated indoor plant management system using Arduino	2023-24	KSCST, BENGALURU	Rs.5,000/-	Rs.5,000/-	-
5	Prof. Shreekantha B. Prof. Madhusudhana V.	Community green: Revolutionizing Waste Management	2023-24	KSCST, BENGALURU	Rs.5,000	Rs.5,000	-
6	Dr. Sharavana K. Dr. Balaji Vijayan	Vitamin Deficiency Detection Using Photos Sample And Neural Network	2023-24	KSCST, BENGALURU	Rs.5,000	Rs.5,000	-
7	Dr. S. Tamilarasan Dr. Sharavana K.	Ai-Enhanced Image Description	2023-24	KSCST, BENGALURU	Rs.4,000	Rs.4,000	-
8	Prof. Sneha K.	Vision Based Boat Height Prediction, Crash Avoidance With Bridge Height And Condition Monitoring System	2023-24	KSCST, BENGALURU	Rs.5,000	Rs.5,000	-
9	Dr. Salim Sharieff &	Finest approach to synthesized Bio Ethanol from	2023-24	KSCST,	Rs.7,000	Rs.7,000	-



## HKBK COLLEGE OF ENGINEERING

	Dr. Younus Pasha	Blue- Green Algae cultivated through closed photo bio reactor system		BENGALURU			
10	Prof. Dinesh H A	Development & characterization of smart helmet with coconut shell and waste plastic enhanced polymer matrix composites	2023-24	KSCST, BENGALURU	Rs.7,000	Rs.7,000	-
11	Prof. Husna Tabassum Prof. Ayesha Anjum	Smart Traffic Control Management System Using IoT and Machine Learning	2023-24	KSCST, BENGALURU	Rs. 5,000	Rs. 5,000	
12	Dr. SHARADA K. A. Prof. MINAL KHANDARE	SAFETY MEASURES TO AUTO DETECT AND EXHAUSTING OF GAS LEAKAGE REMOTELY BY INVOKING AUTO VENTILATION USING IOT TECHNIQUES	2023-24	KSCST, BENGALURU	Rs. 4,000.00	Rs 4,000.00	
13	Dr. B. P. PRADEEP KUMAR	AI DRIVEN ADAPTIVE VENTILATOR FOR ENHANCED RESPIRATION	2023-24	KSCST, BENGALURU	Rs 5,500.00	Rs 5,500.00	
14	Ms. AYESHA ANJUM	SCULPTING SPINAL HARMONY: SMART CHAIR REVOLUTION WITH NEURAL PRECISION, FORCE SENSING, AND K-FOLD CROSS-VALIDATION	2023-24	KSCST, BENGALURU	Rs. 5,000	Rs. 5,000	
15	Dr. ZAHIRA TABASSUM Dr.SUFIA BANU	HUMANITARIAN DEMINING UAV	2023-24	KSCST, BENGALURU	Rs 5,500.00	Rs 5,500.00	



# HKBK COLLEGE OF ENGINEERING

## SPORTS

Sl. No.	Name of Sports event	No. of Students Participated at					Awards Won					Remarks
		University Level	Inter-Univ. Level	State Level	National Level	International Level	University Level	Inter-Univ. Level	State Level	National Level	International Level	
1.	Cricket	16	-	16	-	-	-	-	-	-	-	-
2.	Volleyball	12	-	36	-	-	-	-	-	-	-	-
3.	Kabaddi	12	-	-	-	-	-	-	-	-	-	-
4.	Football	16	01	80	-	-	-	-	16	-	-	-
5.	Basket Ball	12	-	36	02	-	-	-	12	-	-	-
6.	Athletic	-	-	15	-	-	-	-	-	-	-	-
7.	Badminton	10	-	-	-	-	-	-	-	-	-	-
8.	Chess	05	-	-	-	-	-	-	-	-	-	-
9.	Youth Fest	-	-	25	-	-	-	-	-	-	-	-
10.	Kho Kho Men	-	-	-	-	-	-	-	-	-	-	-
11.	Kho Kho Women	-	-	-	-	-	-	-	-	-	-	-
12.	Karate	03	-	-	-	-	-	-	-	-	-	-



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13.	<b>Best Physique Men</b>	<b>02</b>	-	-	-	-	-	-	-	-	-	-
14.	<b>Weight Lifting Men &amp; Women</b>	<b>02</b>	-	-	-	-	-	-	-	-	-	-

**Note:** Give Name, Branch, Class of Students in a separate list who have won Inter-University National, International events.



# HKBK COLLEGE OF ENGINEERING

## STATISTICS OF THE DEGREE RESULTS

<b>Program Code</b>	<b>Program Name</b>	<b>Number of students appeared in the final year examination</b>	<b>Number of students passed in final year examination</b>
EC	Electronics and Communication	55	38
ME	Mechanical Engg	27	15
CSE	Computer Science and Engineering	180	156
CV	Civil Engineering	14	8
ISE	Information Science Engineering	107	105
	<b>Total</b>		
	<b>Pass percentage</b>	383	322



# HKBK COLLEGE OF ENGINEERING

## REGISTRATION FOR THE RESEARCH PROGRAMMES

Sl. No.	Department	Ph.D								
		GM		SC		ST		OBC		Total
		Male	Female	Male	Female	Male	Female	Male	Female	
1.	Computer Science & Engineering	01	07	00	00	00	00	01	01	10
2.	Electronics & Communication Engg	00	01	00	00	00	00	00	03	04



# HKBK COLLEGE OF ENGINEERING

## AWARD OF Ph.D.

Sl. No.	Faculty	Ph.D.								Total
		GM		SC		ST		OBC		
		Male	Female	Male	Female	Male	Female	Male	Female	
1	Mrs. Chandrakala H L	-	01	-	-	-	-	-	-	01
2	Mr. V. Bheemeswara Reddy	01	-	-	-	-	-	-	-	01
3	Mrs. Zabiha Khan	-	-	-	-	-	-	-	01	01
4	Mr. Usman Aijaz N	-	-	-	-	-	-	01	-	01
5	Mrs. Madhura T K	-	01	-	-	-	-	-	-	01
6	Mrs. Nazmin Begum	-	-	-	-	-	-	-	01	01





# HKBK COLLEGE OF ENGINEERING

## ENROLMENT DATA OF I YEAR STUDENTS

Sl. No.	Course	Sanctioned Intake	Total No. of Students Admitted			Vac.	I Semester UG											
							GM			SC			ST			OBC		
							M	F	T	M	F	T	M	F	T	M	F	T
1	AIML	60	42	20	62	02	20	7	27	1	2	3	1	0	1	24	7	31
2	CSE	180	122	67	189	00	61	28	89	8	3	11	3	3	6	57	26	83
3	ISE	120	77	49	126	00	47	22	69	3	2	5	1	1	2	32	18	50
4	E&C	180	101	87	188	01	58	38	96	3	8	11	2	4	6	57	18	75
5	ME	60	20	1	21	42	8	1	9	0	0	0	0	0	0	12	0	12
<b>Total</b>		<b>600</b>	<b>362</b>	<b>224</b>	<b>586</b>	45	194	96	290	15	15	30	7	8	15	182	68	251