

## FACULTY PROFILE

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|
| Name of Teaching Staff / RMK ID | T1233_Rathna R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                       |
| Designation                     | ASSISTANT PROFESSOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                       |
| Department                      | EC ACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                       |
| Date of Joining the Institution | 25.04.2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                       |
| Qualifications                  | M.E.,(Ph.D)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                       |
| Total Experience                | Overall : 1 year 04 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | in RMK : 4 months     |
| Papers Published in Journal     | Overall : 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | After Joining RMK : 1 |
| List of Papers Published        | <div>1. Paper has been published by ‘Microwave Journal, Titled “<b>Low profile slotted notch MIMO antenna with low ECC for 5G V2V communication</b>” ISSN – (0192-6225), Volume-67, Issue. no. 9, pp. 56, September 2024.</div> <div>2. Paper has been published by ‘International Journal for Research in Applied Science and Engineering Technology (IJRASET), Titled “<b>Analysis of Optimum Technique for PAPR Reduction in UFMC System</b>’ August 2023.</div> <div>3. Paper has been published by ‘BOHR Journal of Electrical and Electronic Communication Engineering Titled “. <b>A wideband multiple rectangular slotted patch antenna for 5G applications</b>” January 2024.</div> <div>4. Paper has been published by ‘Microelectronics International’, titled “<b>Strain-engineered ZnO/PVDF nanocomposite piezoelectric films for high-performance self-powered flexible wearable pressure sensors</b>’ ISSN: 1758-812X (Online), June 2026.</div> |  |                       |

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|----------------------------------------------------------------|--------------------|-----------------------------|
| Papers Presented in Conferences<br>(Scopus / WoS indexed only) | Overall : 1        | After Joining RMK : 0       |
| Ph.Ds / Projects Guided                                        | Ph.Ds Guided : Nil | Student Projects Guided : 1 |

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|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Patents</b>                        | Published Count : 4                                                                                                                                                                                                                                                                                                                                                                               | Granted Count : 3 |
|                                       | List :<br>1. 2x2 MIMO antenna for 5G communications - Patent no.: 202341017634 (Granted)<br>2. A hybrid patch-slot antenna with conical semi-circular power divider and PIN diode - Patent no.: 202341053198 (Granted)<br>3. Intelligent Resource Allocation for Green IoT Networks of Agriculture Farms - Patent no.: 202241006320 (Published)<br>4. Car shaped slotted patch antenna. (Granted) |                   |
| <b>Professional Memberships</b>       | Count :0                                                                                                                                                                                                                                                                                                                                                                                          |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                   |                   |
| <b>Consultancy Projects Completed</b> | Count :0                                                                                                                                                                                                                                                                                                                                                                                          |                   |
| <b>Awards Received</b>                | Count : 1                                                                                                                                                                                                                                                                                                                                                                                         |                   |
|                                       | List:<br>1. Best Researcher Award ECE/EEE 2025<br>2. Best Paper Award (ICIETDW) 2024                                                                                                                                                                                                                                                                                                              |                   |
| <b>Orchid Link / ID</b>               | ID : 0000-0002-2792-8744                                                                                                                                                                                                                                                                                                                                                                          |                   |

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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Google Scholar Link / ID</b> | ID : YZLB_c4AAAAJ                                                                                                             |
| <b>Vidwan Link / ID</b>         | ID : 398128                                                                                                                   |
| <b>Research Gate Link / ID</b>  | <a href="https://www.researchgate.net/profile/Rathna-Rajendran-2">https://www.researchgate.net/profile/Rathna-Rajendran-2</a> |
| <b>Scopus Link / ID</b>         | ID : 59743658800                                                                                                              |