

DAFTAR PUSTAKA

- [1] F. Kristya, S. Luthfiyah, I. D. G. Hari Wisana, and M. Thaseen, “Baby Incubator Monitoring Center for Temperature and Humidity using WiFi Network,” *J. Electron. Electromed. Eng. Med. Informatics*, vol. 3, no. 1, pp. 8–13, 2021, doi: 10.35882/jeeemi.v3i1.2.
- [2] M. Shaib, M. Rashid, L. Hamawy, M. Arnout, I. El Majzoub, and A. J. Zaylaa, “Advanced portable preterm baby incubator,” *Int. Conf. Adv. Biomed. Eng. ICABME*, vol. 2017-October, no. December, 2017, doi: 10.1109/ICABME.2017.8167522.
- [3] L. Lamidi, A. Kholiq, and M. Ali, “A Low Cost Baby Incubator Design Equipped with Vital Sign Parameters,” *Indones. J. Electron. Electromed. Eng. Med. informatics*, vol. 3, no. 2, pp. 53–58, 2021, doi: 10.35882/ijeemi.v3i2.3.
- [4] M. F. Silveira, C. G. Victora, B. L. Horta, B. G. C. Da Silva, A. Matijasevich, and F. C. Barros, “Low birthweight and preterm birth: Trends and inequalities in four population-based birth cohorts in Pelotas, Brazil, 1982-2015,” *Int. J. Epidemiol.*, vol. 48, no. June, pp. I46–I53, 2019, doi:

10.1093/ije/dyy106.

- [5] M. F. Silveira, C. G. Victora, B. L. Horta, B. G. C. Da Silva, A. Matijasevich, and F. C. Barros, “Low birthweight and preterm birth: Trends and inequalities in four population-based birth cohorts in Pelotas, Brazil, 1982-2015,” *Int. J. Epidemiol.*, vol. 48, no. Supplement 1, pp. I46–I53, 2019, doi: 10.1093/ije/dyy106.
- [6] W. Chen, S. B. Oetomo, L. Feijs, S. Bouwstra, I. Ayoola, and S. Dols, “Design of an integrated sensor platform for vital sign monitoring of newborn infants at Neonatal Intensive Care Units,” *J. Healthc. Eng.*, vol. 1, no. 4, pp. 535–554, 2010, doi: 10.1260/2040-2295.1.4.535.
- [7] M. A. Wahab and D. Md Nor, “Safety and Health Monitoring System for Baby Incubator using IoT,” *Evol. Electr. Electron. Eng.*, vol. 2, no. 2, pp. 256–264, 2021, [Online]. Available: <http://publisher.uthm.edu.my/periodicals/index.php/eeee>.
- [8] F. Aktas, E. Kavus, and Y. Kavus, “A real-time infant health monitoring system for hard of hearing parents by using android-based mobil

- devices,” *Istanbul Univ. - J. Electr. Electron. Eng.*, vol. 17, no. March, pp. 3107–3112, 2017.
- [9] A. Young, F. Azeez, S. P. Godad, P. Shetty, and A. Sharma, “A multimodal quality improvement approach to promote normothermia in very preterm infants,” *Acta Paediatr. Int. J. Paediatr.*, vol. 110, no. 10, pp. 2745–2752, 2021, doi: 10.1111/apa.16009.
- [10] J. Carns *et al.*, “Impact of hypothermia on implementation of CPAP for neonatal respiratory distress syndrome in a low-resource setting,” *PLoS One*, vol. 13, no. 3, pp. 1–12, 2018, doi: 10.1371/journal.pone.0194144.
- [11] G. A. A. Zamora and D. C. Garcia, “A Prospective Study on the Efficacy and Safety of Kangaroo Mother Care as an Alternative Means of Transport of Preterm and Term Small-for-Gestational Age Infants,” *Acta Med. Philipp.*, vol. 55, no. 9, pp. 934–938, 2021, doi: 10.47895/AMP.V55I9.3898.
- [12] J. A. S., A. Benakappa, N. Benakappa, and G. Morgan, “A randomized control trial of hypothermia alert device in low birth weight newborns and the effect on kangaroo mother care

and weight gain,” *Int. J. Contemp. Pediatr.*, vol. 7, no. 1, p. 52, 2019, doi: 10.18203/2349-3291.ijcp20195725.

- [13] M. R. Hazari, E. Jahan, M. R. Amin, and M. A. Alam, “Design and implementation of heart rate measurement device using wireless system,” in *2014 International Conference on Informatics, Electronics and Vision, ICIEV 2014*, 2014, no. May 2014, pp. 1–5, doi: 10.1109/ICIEV.2014.6850732.
- [14] N. Das and M. Chakraborty, “Performance analysis of FIR and IIR filters for ECG signal denoising based on SNR,” in *Proceedings - 2017 3rd IEEE International Conference on Research in Computational Intelligence and Communication Networks, ICRCICN 2017*, 2017, vol. 2017-Decem, pp. 90–97, doi: 10.1109/ICRCICN.2017.8234487.
- [15] P. K. Myung, *Parks The Pediatric Cardiology Handbook, Fifth Edition*. 2016.
- [16] M. C. Gadekar, “Context Aware Computing : IOT for Neonatal Health Monitoring,” *Adv. Comput. Sci. Technol.*, vol. 10, no. 1, pp. 53–62, 2017.

- [17] M. Subramanian, T. Sheela, K. Srividya, and D. Arulselvam, "Security and health monitoring system of the baby in incubator," *Int. J. Eng. Adv. Technol.*, vol. 8, no. 6, pp. 3582–3585, 2019, doi: 10.35940/ijeat.F9353.088619.
- [18] O. Sheril Amira *et al.*, "Neonatal Health Monitoring System with IOT Application," *J. Phys. Conf. Ser.*, vol. 1529, no. 5, pp. 0–8, 2020, doi: 10.1088/1742-6596/1529/5/052076.
- [19] S. Ahmed, S. Millat, M. A. Rahman, S. N. Alam, and M. S. R. Zishan, "Wireless health monitoring system for patients," in *2015 IEEE International WIE Conference on Electrical and Computer Engineering, WIECON-ECE 2015*, 2016, pp. 164–167, doi: 10.1109/WIECON-ECE.2015.7443888.
- [20] H. R. Fajrin, M. R. Ilahi, B. S. Handoko, and I. P. Sari, "Body temperature monitoring based on telemedicine," *J. Phys. Conf. Ser.*, vol. 1381, no. 1, pp. 1–8, 2019, doi: 10.1088/1742-6596/1381/1/012014.
- [21] A. Schuster, O. Castagna, B. Schmid, T. Cibis, and A. Sieber, "Underwater monitoring system for body temperature and ECG recordings," *Underw.*

Technol., vol. 34, no. 3, pp. 135–139, 2017, doi: 10.3723/ut.34.135.

- [22] M. A. Pertiwi, I. D. Gede Hari Wisana, T. Triwiyanto, and S. Sukaphat, “Measurement of Heart Rate, and Body Temperature Based on Android Platform,” *Indones. J. Electron. Electromed. Eng. Med. informatics*, vol. 2, no. 1, pp. 26–33, 2020, doi: 10.35882/ijeemi.v2i1.6.
- [23] A. N. N. Chamim, J. Rinaldi, Y. Ardiyanto, I. Iswanto, and A. Ma’Arif, “Heart Rate and Body Temperature Monitoring Based on Android Operating System,” *Proceeding - 2020 2nd Int. Conf. Ind. Electr. Electron. ICIEE 2020*, vol. 2, no. 2, pp. 143–148, 2020, doi: 10.1109/ICIEE49813.2020.9276750.
- [24] hanifa septa Gisella, priyambada cahaya Nugraha, and muhammad ridha Mak’ruf, “Pemantauan Tanda Vital Suhu dan BPM pada Bayi Secara Wireless,” *Teknokes*, vol. 14, no. 1, pp. 14–19, 2021, doi: 10.35882/teknokes.v14i1.3.
- [25] N. Azman, I. T. Anggraini, S. R. Wicaksono, and F. Djauhari, “Design of Temperature and Humidity Monitoring Baby Incubator Based on

- Internet of Things,” *Int. J. Adv. Trends Comput. Sci. Eng.*, vol. 9, no. 5, pp. 8390–8396, 2020, doi: 10.30534/ijatcse/2020/213952020.
- [26] H. A. Al-asadi, S. F. Hasan, N. Alhouda, H. Ahmed, and M. Ramzi, “Internet of Hospital Things (IoHT): Designing a Monitor System of Healthcare for Neonates,” *J. Eng. Appl. Sci.*, vol. 1, no. 1, pp. 1–10, 2021.
- [27] A. Latif, A. Z. Arfianto, J. E. Poetro, T. N. Phong, and E. T. Helmy, “Temperature monitoring system for baby incubator based on visual basic,” *J. Robot. Control*, vol. 2, no. 1, pp. 47–50, 2021, doi: 10.18196/jrc.2151.
- [28] A. S. Utomo, A. B. Satria, and Y. Tapparan, “Monitoring Baby Incubator Sentral Dengan Komunikasi Wireless,” *Simetris J. Tek. Mesin, Elektro dan Ilmu Komput.*, vol. 9, no. 1, pp. 225–230, 2018, doi: 10.24176/simet.v9i1.2081.
- [29] P. Daely, “Pemantau Sinyal Vital Pasien Nirkabel Menggunakan Protokol Zigbee Pada Platform E-Health,” vol. 2, no. April 2015, 2015.
- [30] E. Setyaningsih, T. Tommy, and H. Tanudjaja, “Sistem Pemantauan Inkubator Bayi

Menggunakan Jaringan Wifi dan Berbasis Database,” *TESLA J. Tek. Elektro*, vol. 21, no. 2, p. 145, 2020, doi: 10.24912/tesla.v21i2.7186.

- [31] I. P. C. Gunawan *et al.*, “Design and development of telemedicine based heartbeat and body temperature monitoring tools,” *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 850, no. 1, pp. 1–7, 2020, doi: 10.1088/1757-899X/850/1/012018.
- [32] A. Sachenko, O. Osolinskyi, P. Bykovyy, M. Dobrowolski, and V. Kochan, “Development of the Flexible Traffic Control System Using the LabView and ThingSpeak,” in *Proceedings - 2020 IEEE 11th International Conference on Dependable Systems, Services and Technologies, DESSERT 2020*, 2020, pp. 326–330, doi: 10.1109/DESSERT50317.2020.9125036.
- [33] S. Kolhe, S. Mishra, and S. Shah, “Improved Design of IoT based Infant Incubator Monitoring and Control System Sheetal,” *Int. Res. J. Eng. Technol.*, vol. 08, no. 09, pp. 2837–2842, 2021.
- [34] F. A. Mahapula, K. Kumpuni, J. P. Mlay, and T. F. Mrema, “Risk factors associated with pre-term birth in dar es salaam, tanzania: A case-control

- study,” *Tanzan. J. Health Res.*, vol. 18, no. 1, pp. 1–8, 2016, doi: 10.4314/thrb.v18i1.4.
- [35] L. Doukkali, F. Zahra, N. B. Mechita, L. Lahlou, M. Habibi, and A. Barkat, “The Issue of Care Given to Premature Infants in the Provincial Hospital Center of Missouri,” *J. Biosci. Med.*, vol. 4, pp. 76–68, 2016, doi: 10.4236/jbm.2016.45008.
- [36] E. Emaliyawati, S. Fatimah, and L. Lidya, “Pengaruh Terapi Musik Lullaby terhadap Heart Rate, Respiration Rate, Saturasi Oksigen pada Bayi Prematur,” *J. Keperawatan Padjadjaran*, vol. 5, no. 3, pp. 258–270, 2018, doi: 10.24198/jkp.v5i3.648.
- [37] R. F. Rizqiani, “FAKTOR-FAKTOR YANG MEMENGARUHI KEMATIAN BAYI PREMATUR DI INDONESIA,” *J. Ilm. WIDYA Kesehatan dan Lingkungan.*, vol. 1, no. 2, pp. 135–141, 2017.
- [38] E. Eliza, D. D. Nuryani, and R. Rosmiyati, “Determinan Persalinan Prematur di RSUD Dr. Abdul Moeloek,” *J. Kesehatan.*, vol. 8, no. 2, p. 305, 2017, doi: 10.26630/jk.v8i2.491.
- [39] L. A. S. Lapono, “Sistem Pengontrolan Suhu Dan

Kelembaban Pada Inkubator Bayi,” *J. Fis. Sains dan Apl.*, vol. 1, no. 1, pp. 12–17, 2016, [Online]. Available:

<http://ejurnal.undana.ac.id/FISA/article/view/521>.

- [40] Y. S. Nafie, J. Tarigan, and A. C. Louk, “Rancang Bangun Sistem Kontrol Parameter Fisis Pada Inkubator Bayi Berbasis Mikrokontroler Arduino Uno Dan Esp 8266,” *J. Fis. Sains dan Apl.*, vol. 2, no. 1, pp. 37–43, 2017, [Online]. Available: <http://ejurnal.undana.ac.id/FISA/article/view/541>.
- [41] A. Usman, H. Marwazi, and S. Alam, “TEMPERATURE AND HUMIDITY TEST OF THE TELEMETRY TOOL MODELING IN BABY INCUBATOR,” *J. Teknol. dan Seni Kesehat.*, vol. 09, no. 01, pp. 16–23, 2018.
- [42] J. Hampton and J. Hampton, *Membaca EKG Cara Mudah*. 2019.
- [43] A. Rizal and V. Suryani, “Pengenalan Signal EKG Menggunakan Dekomposisi Paket Wavelet dan K-Means Clustering,” *Proceeding Semin. Nas. Apl. Teknol. Inofrmasi 2008(SNATI 2008)*, vol. 2008, no. Snati, pp. 5–8, 2008.
- [44] F. Buendía-Fuentes *et al.*, “High-Bandpass Filters

- in Electrocardiography: Source of Error in the Interpretation of the ST Segment,” in *ISRN Cardiology*, 2012, vol. 2012, pp. 1–10, doi: 10.5402/2012/706217.
- [45] M. Suchetha, N. Kumaravel, M. Jagannath, and S. K. Jaganathan, “A comparative analysis of EMD based filtering methods for 50 Hz noise cancellation in ECG signal,” *Informatics Med. Unlocked*, vol. 8, no. November 2016, pp. 54–59, 2017, doi: 10.1016/j.imu.2017.01.003.
- [46] D. Anugrah, “Rancang Bangun Pengukur Laju Detak Jantung Berbasis PLC Mikro,” *Elinvo (Electronics, Informatics, and Vocational Education)*, 2016. .
- [47] I. Prayogo, R. Alfita, and K. A. Wibisono, “Sistem Monitoring Denyut Jantung Dan Suhu Tubuh Sebagai Indikator Level Kesehatan Pasien Berbasis Iot (Internet Of Thing) Dengan Metode Fuzzy Logic Menggunakan Android,” *J. Tek. Elektro dan Komput. TRIAC*, vol. 4, no. 2, 2017, doi: 10.21107/triac.v4i2.3257.
- [48] E. Sulistyoy, “Alat Pendeteksi Denyut Nadi Berbasis Arduino Yang Diinterfacekan Ke

Komputer,” *Manutech J. Teknol. Manufaktur*, vol. 8, no. 02, pp. 7–11, 2019, doi: 10.33504/manutech.v8i02.2.

- [49] F. Rozie, F. Hadary, and F. T. P. W, “Rancang Bangun Alat Monitoring Jumlah Denyut Nadi/Jantung Berbasis Android,” in *Teknik Electro*, 2014, vol. 1, pp. 1–10.
- [50] I. Puspasari, Musayyanah, and P. Susanto, “Telereport Target Heart Rate (THR) pada Cardio Exercise Berbasis Metode Karvonen,” in *Seminar Nasional Aplikasi Teknologi Informasi (SNATi)*, 2018, pp. 42–48.
- [51] G. C. McCain, S. M. Ludington-Hoe, J. Y. Swinth, and A. J. Hadeed, “Heart rate variability responses of a preterm infant to Kangaroo care,” *JOGNN - J. Obstet. Gynecol. Neonatal Nurs.*, vol. 34, no. 6, pp. 689–694, 2005, doi: 10.1177/0884217505281857.
- [52] A. I. Antonevich, V. V. Butskii, S. S. Vetokhin, and A. M. Sarzhevskii, “Instrumentation Amplifier.,” *Instruments Exp. Tech. New York*, vol. 24, no. 2 pt 2, pp. 444–445, 1981, doi: 10.1002/0471497398.mm1000.

- [53] Dr. Kevin Adrian, "No Title," *ALODOKTER*, 2019. <https://www.alodokter.com/ketahui-suhu-normal-bayi-dan-cara-mengukurnya-dengan-tepat>.
- [54] P. Padila and I. Agustien, "Suhu Tubuh Bayi Prematur di Inkubator Dinding Tunggal dengan Inkubator Dinding Tunggal Disertai Sungkup," *J. Keperawatan Silampari*, vol. 2, no. 2, pp. 113–122, 2019, doi: 10.31539/jks.v2i2.651.
- [55] R. A. Wijaya, S. W. L. W. Lestari, and M. Mardiono, "Rancang Bangun Alat Monitoring Suhu dan Kelembaban Pada Alat Baby Incubator Berbasis Internet Of Things," *J. Teknol.*, vol. 6, no. 1, p. 52, 2019, doi: 10.31479/jtek.v6i1.5.
- [56] W. Chen, S. Dols, and L. Feijs, "Monitoring Body Temperature of Newborn Infants at Neonatal Intensive Care Units Using Wearable Sensors," in *Proceedings of the Fifth International Conference on Body Area Networks*, 2010, no. 5, pp. 188–194.
- [57] "LCD 7inch." <https://www.waveshare.com/7inch-hdmi-lcd-c.htm>.
- [58] H. Swanson, G. Anton, C. Bain, M. Horn, and U. Wilensky, *Introducing and Assessing Computational Thinking in the*

Secondary Science Classroom. 2019.

- [59] P. R. Manual, “Arduino ® UNO R3 Target areas : Arduino ® UNO R3 Features,” 2021, pp. 1–13.
- [60] RaspberryPi, “Raspberry Pi 3 Model B+ Datasheet,” in *Datasheet*, 2016, p. 5, [Online]. Available:
<https://static.raspberrypi.org/files/product-briefs/Raspberry-Pi-Model-Bplus-Product-Brief.pdf>.