

DAFTAR PUSTAKA

- [1] K. K. R. Badan Litbang Kesehatan, “Laporan_Nasional_RKD2018_FINAL.pdf,” *Badan Penelitian dan Pengembangan Kesehatan*. p. 198, 2018, [Online]. Available: http://labdata.litbang.kemkes.go.id/images/download/laporan/RKD/2018/Laporan_Nasional_RKD2018_FINAL.pdf.
- [2] WHO, “The prevention of perinatal mortality and morbidity. Report of a WHO Expert Committee.,” *World Health Organization - Technical Report Series*, vol. 457. pp. 1–60, 1970.
- [3] WHO, “Perinatal mortality audit North Macedonia 2019,” 2021, [Online]. Available: <https://apps.who.int/iris/bitstream/handle/10665/338875/9789289055383-eng.pdf>.
- [4] M. F. Silveira *et al.*, “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, Apr. 2019, doi: 10.1093/ije/dyy106.
- [5] D. SETIYORINI, “GAMBARAN FAKTOR-

FAKTOR PENYEBAB BAYI LAHIR PREMATUR DI RUMAH SAKIT UMUM DAERAH PASAR MINGGU JAKARTA SELATAN,” *Ayan*, vol. 8, no. 5, p. 55, 2019.

- [6] 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.
- [7] 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, Jan. 2021, doi: 10.35882/jeeemi.v3i1.2.
- [8] M. Koli, P. Ladge, B. Prasad, R. Boria, and N. J. Balur, “Intelligent Baby Incubator,” in *2018 Second International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, Mar. 2018, no. Iceca, pp. 1036–1042, doi: 10.1109/ICECA.2018.8474763.
- [9] 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, p. e0194144, Mar. 2018, doi: 10.1371/journal.pone.0194144.

- [10] 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.
- [11] World Health Organization, “Thermal Protection of the Newborn: a practical guide,” *Maternal and Safe Motherhood Programme*. pp. 1–67, 1997, [Online]. Available: https://www.who.int/maternal_child_adolescent/documents/ws42097th/en/.
- [12] M. S. Mardianto, A. I. Saputra, C. Sukma, and A. Nasrulloh, “Infant Incubator Temperature Controlled and Infant Body Temperature Monitor using Arduino Mega2560 and ADS1232,” *Int. J. Comput. Tech. — Vol. 6 Issue 6, December 2019*, vol. 6, no. 6, pp. 1–5, 2019, doi: 10.29126/23942231/IJCT-V6I6P6.
- [13] A. Eizad, F. Zahra, H. Alam, H. Tahir, A. K.

- Bangash, and S.-K. Lyu, “Study on Development of Portable Incubator,” *Korean Soc. Manuf. Process Eng.*, vol. 18, no. 9, pp. 1–6, Sep. 2019, doi: 10.14775/ksmpe.2019.18.9.001.
- [14] A. Latif, A. Z. Arfianto, J. E. Petro, 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.
- [15] W. Widhiada, “Temperature Distribution Control for Baby Incubator System Using Arduino AT Mega 2560,” *World Acad. Eng. Technol. Conf. Proceeding, Bali Int. Sch. Sci. Res. Innov.*, vol. 10, no. 1, p. XV, 2017, [Online]. Available: https://simdos.unud.ac.id/uploads/file_penelitian_1_dir/d8cee6e73f739dc11ac9590012345664.pdf.
- [16] N. F. Hidayati, Endro Yulianto, and Abd. Kholid, “Baby Incubator Based on PID Control With Kangaroo Mode (Kangaroo Mode and Humidity),” *J. Electron. Electromed. Eng. Med. Informatics*, vol. 1, no. 2, pp. 13–17, 2019, doi: 10.35882/jeeemi.v1i2.3.
- [17] A. D. Pratiwi, E. Yulianto, and A. Kholid, “Infant

Incubator Berbasis Proportional Integral dan Derivative (PID) Dilengkapi Dengan Mode Kanguru,” *J. Teknokes*, vol. 12, no. 1, pp. 33–38, 2019, doi: 10.35882/teknokes.v12i1.6.

- [18] A. Latif, H. A. Widodo, R. A. Atmoko, T. N. Phong, and E. T. Helmy, “Temperature and humidity controlling system for baby incubator,” *J. Robot. Control*, vol. 2, no. 3, pp. 190–193, 2021, doi: 10.18196/jrc.2376.
- [19] H. Bansal, D. L. Mathew, and A. Gupta, “Controlling of Temperature and Humidity for an Infant Incubator Using Microcontroller,” *Int. J. Adv. Res. Electr. Electron. Instrum. Eng.*, vol. 04, no. 06, pp. 4975–4982, 2015, doi: 10.15662/ijareeie.2015.0406012.
- [20] I. Adam, H. F. Rozi, S. Khan, Z. Zaharuddin, K. A. Kadir, and A. N. Nurdin, “The development of the fuzzy-based infant incubator,” in *AIP Conference Proceedings*, 2019, vol. 2129, p. 020101, doi: 10.1063/1.5118109.
- [21] S. B. Utomo, J. F. Irawan, A. Mujibtamala, M. I. Nari, and R. Amalia, “Automatic baby incubator system with fuzzy-PID controller,” *IOP Conf. Ser.*

Mater. Sci. Eng., vol. 1034, no. 1, p. 012023, Feb. 2021, doi: 10.1088/1757-899X/1034/1/012023.

- [22] N. Rahman Nadi and M. Mohaiminul Islam, “An Android Application Based Temperature and Humidity Monitoring and Controlling System for Child Incubators,” *Int. J. Sci. Eng. Res.*, vol. 9, no. 1, pp. 668–671, 2018, [Online]. Available: <http://www.ijser.org>.
- [23] P. C. Nugraha, M. R. Mak’ruf, Lusiana, and S. Luthfiyah, “Long Distance Dual SpO₂ Monitoring in Premature Babies Via Bluetooth Communication,” *J. Electron. Electromed. Eng. Med. Informatics*, vol. 3, no. 2, pp. 106–110, 2021, doi: 10.35882/jeeemi.v3i2.7.
- [24] O. Sheril Amira *et al.*, “Neonatal Health Monitoring System with IOT Application,” *J. Phys. Conf. Ser.*, vol. 1529, no. 5, p. 052076, May 2020, doi: 10.1088/1742-6596/1529/5/052076.
- [25] 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, p. 012018, May 2020, doi: 10.1088/1757-899X/850/1/012018.

- [26] B. Ashish, “Temperature monitored IoT based smart incubator,” in *Proceedings of the International Conference on IoT in Social, Mobile, Analytics and Cloud, I-SMAC 2017*, 2017, pp. 497–501, doi: 10.1109/I-SMAC.2017.8058400.
- [27] M. Shaib, M. Rashid, L. Hamawy, M. Arnout, I. El Majzoub, and A. J. Zaylaa, “Advanced portable preterm baby incubator,” in *2017 Fourth International Conference on Advances in Biomedical Engineering (ICABME)*, Oct. 2017, vol. 2017-Octob, pp. 1–4, doi: 10.1109/ICABME.2017.8167522.
- [28] A. Novi, “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.
- [29] M. A. Wahab and D. Nor, “Safety and Health Monitoring System for Baby Incubator using IoT,” *Evol. Electr. Electron. Eng.*, vol. 2, no. 2, pp. 256–264, 2021, doi: <https://doi.org/10.30880/eeee.2021.02.02.031>.
- [30] S. Y. Setiawan, D. H. Andayani, A. Pudji, L.

- Soetjiatie, and A. B. Anugrah Kusuma, “Analysis Of Baby Incubator Humidity Based PID with Kangaroo Mode,” *J. Electron. Electromed. Eng. Med. Informatics*, vol. 4, no. 1, pp. 50–54, 2022, doi: 10.35882/jeeemi.v4i1.6.
- [31] 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.
- [32] 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 Missour,” *J. Biosci. Med.*, vol. 4, pp. 76–68, 2016, doi: 10.4236/jbm.2016.45008.
- [33] 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.
- [34] R. F. Rizqiani, “FAKTOR_FAKTOR YANG MEMENGARUHI KEMATIAN BAYI

PREMATUR DI INDONESIA,” *J. Ilm. WIDYA Kesehat. dan Lingkung.*, vol. 1, no. 2, pp. 135–141, 2017.

- [35] E. Eliza, D. D. Nuryani, and R. Rosmiyati, “Determinan Persalinan Prematur di RSUD Dr. Abdul Moeloek,” *J. Kesehat.*, vol. 8, no. 2, p. 305, 2017, doi: 10.26630/jk.v8i2.491.
- [36] V. C. Kirana, D. H. Andayani, A. Pudji, and A. Hannouch, “Effect of Closed and Opened the Door to Temperature on PID-Based Baby Incubator with Kangaroo Mode,” *Indones. J. Electron. Electromed. Eng. Med. informatics*, vol. 3, no. 3, pp. 121–127, Aug. 2021, doi: 10.35882/ijeeemi.v3i3.6.
- [37] 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>.
- [38] 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.
- [39] A. Surasmi, S. Handayani, and H. N. Kusuma, *PERAWATAN BAYI RISIKO TINGGI*. Penerbit Buku Kedokteran ECG.
- [40] N. Y. D. Setyaningsih and A. C. Murti, “Control Temperature on Plant Baby Incubator With Fuzzy Logic,” *Simetris J. Tek. Mesin, Elektro dan Ilmu Komput.*, vol. 7, no. 1, p. 273, 2016, doi: 10.24176/simet.v7i1.514.
- [41] F. S. M. Alkhafaji, W. Z. W. Hasan, M. M. Isa, and N. Sulaiman, “A novel method for tuning PID controller,” *J. Telecommun. Electron. Comput. Eng.*, vol. 10, no. 1–12, pp. 33–38, 2018.
- [42] M. Ali, “PEMBELAJARAN PERANCANGAN SISTEM KONTROL PID DENGAN SOFTWARE MATLAB Muhamad Ali,” vol. 1, no. 1, pp. 1–8, 2004.
- [43] D. Trevisanuto, I. Coretti, N. Doglioni, A. Uditano, F. Cavallin, and V. Zanardo, “Effective temperature under radiant infant warmer : Does the device make a difference ? & ,” vol. 82, pp. 720–723, 2011, doi: 10.1016/j.resuscitation.2011.02.019.

- [44] RaspberryPi, *Raspberry Pi 3 Model B+ Datasheet*. 2016.
- [45] “LCD 7inch.” <https://www.waveshare.com/7inch-hdmi-lcd-c.htm>.
- [46] H. Swanson, G. Anton, C. Bain, M. Horn, and U. Wilensky, “Introducing and Assessing Computational Thinking in the Secondary Science Classroom,” in *Computational Thinking Education*, Singapore: Springer Singapore, 2019, pp. 99–117.
- [47] I. S. Achievement, “2010 Technical Manual,” *Learning*, 2010.
- [48] S. N. Indonesia and B. S. Nasional, *Peralatan elektromedik – Bagian 2-19 : Persyaratan khusus untuk keselamatan dasar dan kinerja esensial inkubator infant*. 2014.
- [49] H. Mittal, L. Mathew, and A. Gupta, “Design and Development of an Infant Incubator for Controlling Multiple Parameters,” *Int. J. Emerg. Trends Electr. Electron.*, vol. 11, no. 5, pp. 2320–9569, 2015.
- [50] H. B. D. L. Mathew, Ashish Gupta, “Controlling of Temperature and Humidity for an Infant

Incubator Using Microcontroller," *Int. J. Adv. Res. Electr. Electron. Instrum. Eng.*, vol. 04, no. 06, pp. 4975–4982, 2015, doi: 10.15662/ijareeie.2015.0406012.