

## DAFTAR PUSTAKA

- Abdimas, C., Pengabdian, J., Masyarakat, K., Napitupulu, R. A. M., Siagian, L., Panjaitan, J., Tampubolon, M., Sianturi, L., Sianturi, C. M., & Mei, D. (2021). *Pelatihan Pembuatan Prototype Spare Part Motor Dengan Aplikasi Printer 3D Pada Siswa Siswi Kls XI SMK Swasta Parulian 3 Medan A B S T R A K Sejarah artikel.* 1(1), 37–44.
- Bengue, M. M., Mesnard, T., Chai, F., Maton, M., Tabary, N., Garc, M., Sobociński, J., Martel, B., & Blanchemain, N. (2023). *Evaluation of a Medical Grade Thermoplastic Polyurethane for the Manufacture of an Implantable Medical Device : The Impact of FDM 3D-Printing and Gamma Sterilization.*
- Ghazali, S. (2021). *Comparative Study of the Sensitivity of PLA, ABS, PEEK, and PETG's Mechanical Properties to FDM Printing Process Parameters.*
- Haleem, A., Javaid, M., Khan, R. H., & Suman, R. (2020). 3D Printing applications in bone tissue engineering. *Journal of Clinical Orthopaedics and Trauma,* 11, S118–S124. <https://doi.org/10.1016/j.jcot.2019.12.002>
- Idris, M., Seers, T. D., & Alyafei, N. (2022). An operational guide to resin 3D Printing of geological macromodels. *MethodsX,* 9. <https://doi.org/10.1016/j.mex.2022.101863>
- Ismianti, & Herianto. (2020). Adoption of 3D Printing in Indonesia and Prediction of Its Application in 2025. *IOP Conference Series: Materials Science and Engineering,* 722(1). <https://doi.org/10.1088/1757-899X/722/1/012028>
- Kantaros, A., Soulis, E., Ion, F., & Petrescu, T. (2023). *Advanced Composite Materials Utilized in FDM / FFF 3D Printing Manufacturing Processes : The Case of Filled Filaments. September.* <https://doi.org/10.3390/ma16186210>
- kumar, A. V. (2022). A Review paper on 3D-Printing and Various Processes Used in the 3D-Printing. *Interantional Journal of Scientific Research in Engineering and Management,* 06(05), 538–548. <https://doi.org/10.55041/ijjsrem13278>
- Lawson, C. E., Martí, J. M., Radivojevic, T., Jonnalagadda, S. V. R., Gentz, R., Hillson, N. J., Peisert, S., Kim, J., Simmons, B. A., Petzold, C. J., Singer, S. W., Mukhopadhyay, A., Tanjore, D., Dunn, J. G., & Garcia Martin, H. (2021). Machine learning for metabolic engineering: A review. *Metabolic Engineering,* 63(November 2020), 34–60. <https://doi.org/10.1016/j.ymben.2020.10.005>
- Magdum, Y., Pandey, D., Bankar, A., Harshe, S., Parab, V., Mahesh, M., & Kadam, S. (2019). Process Parameter Optimization for FDM 3D Printer. *International Research Journal of Engineering and Technology, April,* 1472. [www.irjet.net](http://www.irjet.net)
- Maidawati, Rina Sepriani, & Ihsanul Fuadi. (2022). The Latest Trend in Utilization of Organic Fertilizer for Improving Group Productivity Farming. *Jurnal Teknologi,* 12, 62–67. <https://doi.org/10.35134/jitekin.v12i2.76>
- Mardlotila, M. J., Trifiananto, M., Dwilaksana, D., Basuki, H. A., Kustanto, M. N., & Hardiatama, I. (2022). Effect of layer *high, infill* geometry, nozzle temperature, and fan speed on tensile strength of 3D Printing PETG specimens. *INVOTEK: Jurnal Inovasi Vokasional Dan Teknologi,* 22(3), 149–158. <https://doi.org/10.24036/invotek.v22i3.1045>
- Mazurchevici, A. D., Nedelcu, D., & Popa, R. (2020). *Additive manufacturing of*

- composite materials by FDM technology : A review.* 27(April), 179–192.
- Mehta, V., Vilikkathala Sudhakaran, S., & Rath, S. N. (2021). Facile Route for 3D Printing of Transparent PETg-Based Hybrid Biomicrofluidic Devices Promoting Cell Adhesion. *ACS Biomaterials Science and Engineering*, 7(8), 3947–3963. <https://doi.org/10.1021/acsbiomaterials.1c00633>
- Muhammad, A. R., Sakura, R. R., Dwilaksana, D., Sumarji, & Trifiananto, M. (2022). Layer High, Temperature Nozzle, Infill Geometry and Printing Speed Effect on Accuracy 3D Printing PETG. *R.E.M. (Rekayasa Energi Manufaktur Jurnal*, 7(2), 81–88. <https://doi.org/10.21070/r.e.m.v7i2.1649>
- Mwema, F. M., & Akinlabi, E. T. (2020). Basics of Fused Deposition Modelling (FDM). *SpringerBriefs in Applied Sciences and Technology*, 1–15. [https://doi.org/10.1007/978-3-030-48259-6\\_1](https://doi.org/10.1007/978-3-030-48259-6_1)
- Nishida, I., Sawada, H., & Shirase, K. (2023). Automated Generation of Product Assembly Order Based on Geometric Constraints Between Parts. *International Journal of Automation Technology*, 17(2). <https://doi.org/10.20965/ijat.2023.p0167>
- Petrov, P., Agzamova, D., Pustovalov, V., Zhikhareva, E., Saprykin, B., Chmutin, I., & Shmakova, N. (2021). Research into the effect of the 3D-Printing mode on changing the properties of PETG transparent plastic. *ESAFORM 2021 - 24th International Conference on Material Forming*, 13, 1–11. <Https://Doi.Org/10.25518/Esaform21.3763>
- Riza, E. I., Teknik, F., Studi, P., Mesin, T., Yogyakarta, U. M., Budiyantoro, C., Teknik, F., Studi, P., Mesin, T., Yogyakarta, U. M., Nugroho, A. W., Teknik, F., Studi, P., Mesin, T., & Yogyakarta, U. M. (2020). *Peningkatan Kekuatan Lentur Produk 3d Printing Material Petg Dengan Optimasi Parameter Proses*. 66–75.
- Sirjani, E., Migas, M., Cragg, P. J., & Dymond, M. K. (2020). 3d Printed UV/VIS detection systems constructed from transparent filaments and immobilised enzymes. *Additive Manufacturing*, 33(January), 101094. <https://doi.org/10.1016/j.addma.2020.101094>
- Taqdissillah, D., Muttaqin, A. Z., Darsin, M., Dwilaksana, D., & Ilminnafik, N. (2022). The Effect of Nozzle Temperature, Infill Geometry, Layer High and Fan Speed on Roughness Surface in PETG Filament. *Journal of Mechanical Engineering Science and Technology (JMEST)*, 6(2), 74. <https://doi.org/10.17977/um016v6i22022p074>
- Valvez, S., Silva, A. P., & Reis, P. N. B. (2022). Optimization of Printing Parameters to Maximize the Mechanical Properties of 3D-Printed PETG-Based Parts. *Polymers*, 14(13). <https://doi.org/10.3390/polym14132564>
- Wüthrich, M., Gubser, M., Elspass, W. J., & Jaeger, C. (2021). A novel slicing strategy to Print overhangs without support material. *Applied Sciences (Switzerland)*, 11(18). <https://doi.org/10.3390/app11188760>
- Zakaria, S., Stighfarrinata, R., & Maghfiroh, A. M. (2023). Optimasi Parameter Proses 3D Printing Terhadap Kuat Tarik Filament Petg Menggunakan Metode Taguchi. *JUSTI (Jurnal Sistem Dan Teknik Industri)*, 3(4), 538. <https://doi.org/10.30587/justicb.v3i4.6150>